**Influence of Curriculum Vitae**

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| **PERSONAL INFORMATION** | **Prof. Dr. Nat. Dis. Ismail Warad**  **Dean of the Scientific Research - An-Najah National University, Nablus, Palestine.** |
| warad-2018 | * Department of Chemistry and Earth Sciences, PO Box 2713, Qatar University, Doha, Qatar. * Distinguished full Professor, Department of Chemistry College of Science, An-Najah National University, Nablus, Palestine. * <http://staff.najah.edu/warad> * Full Professor at Department of Chemistry, King Saud University, P. O. Box 2455, Riyadh 11451, Saudi Arabia.   +972595787580,  [warad@najah.edu](mailto:warad@najah.edu) or [i.kh.warad@gmail.com](mailto:i.kh.warad@gmail.com)  http://orcid.org/0000-0001-8853-8961 |
|  | Sex Male | Date of birth 19 September 1973 | Nationality Palestinian |
| **Employment History** | <http://scholar.google.com.eg/citations?sortby=pubdate&hl=en&user=vvcH6FcAAAAJ&view_op=list_works>  **\***Visiting researcher to Chemistry Department, Ioannina University, Ioannina, Greece  **\***Visiting researcher to Chemistry Department, Valencia polytechnic University, Valencia, Spain.  **\***Visiting researcher to Institute of Organic Chemistry, Auf der Morgenstelle 18, 72076, Tübingen, Deutschland (GERMANY). |
| 2023 – Up to now | Doctor of Science  The report was submitted 2025. |
| 2019-2022 | Professor  Qatar University, Doha, Qatar |
| 2016 – now | Distinguished professor  Department of Chemistry, Science College, An-Najah National University, Nablus, Palestine. |
| 2013 – 2015 | Full professor  Department of Chemistry, Science College, An-Najah National University, Nablus, Palestine. |
| 2012– 2013 | Full professor  Department of Chemistry, Science College, King Saud University, Riyadh, Saudi Arabia. |
| 2008– 2012 | Associate professor  Department of Chemistry, Science College, King Saud University, Riyadh, Saudi Arabia. |
| 2005– 2008 | Assistant professor  Department of Chemistry, Science College, King Saud University, Riyadh, Saudi Arabia. |
| 2003– 2005 | Post-doctoral  Post-doctoral position for one year in Institute of Organic and Inorginic Chemistry, Tuebingen, Ak /Prof. K. Albert and E. Lindner. |
| 2000 – 2003 | Doctor of Philosophy  Ph.D./Inorganic Chemistry (Catalysis) from Eberhard-Karls-Univ. Tuebingen, Germany entitles:  **Diamine(phosphine)ruthenium(II) Complexes and Their Application in The Catalytic Hydrogenation of α,ß-Unsaturated Ketones in Homogeneous and Heterogeneous Phase** |
| 1995 – 1998 | Master of Chemistry  Department of Chemistry, Science College, An-Najah National University, Nablus, Palestine.  with excellent average entitle:  **Kinetics and Mechanism of Oxidation of Cysteine by Complexation Process Using Iron(III) and Nitrogen Chelate Organic Ligands DPKTH and Ferrozine** |
| 1991 – 1995 | Bachelor of Chemistry  Department of Chemistry, Science College, An-Najah National University, Nablus, Palestine.  With very good average. |
| PERSONAL SKILLS | X-ray diffraction, Liquid-NMR spectroscopy (Bruker DRX 250 Spectrometer), CP/MAS solid–state NMR spectroscopy (Bruker DRX 200 and Bruker ASX 300 Spectrometer), FTIR spectroscopy (Bruker IFS 48  FTIR Spectrometer), Uv-visible spectrophotometer (2 year experience), Autoclave and parallel autoclave hydrogenation reactors, GC-MS and HPLC chromatography and columns packing techniques. |
| Computer *Knowledge* | Competent with most Microsoft Office, Chem.-office, and Origin-Lab programs with experience in HTML |
| Area of Research Interest | 1. Ligand design and synthesis (chiral and achiral), asymmetric catalysts. Complexes (Kinetics, preparation and application, electrochemical studies that coupled with organometallic subjects. 2. Sol-Gel and surface modification immobilization. 3. HPLC chromatography packing and separation, Hybrid Inorganic and Organic Material to prepare novel RP-stationary phase, nanoparticle. 4. Nanoparticle synthesis and application. 5. Chemotherapy, synthesis and characterization novel organic and inorganic complexes then test their pharmaceutical activities. 6. Corrosion, synthesis material which behave good in stopping corrosion. 7. Solid state, solve structure of complexes by XRD and compare it with the theoretical DFT one |
| **Patents** | 1. Saud Resayes, **Ismail Warad**, M. Iqbal Choudhary, Atia-tul-Wahab and Saima Rasheed, Heterocyclic Schiff’s Bases as Novel and New Antiglycation Agents, US patent, 2014. USA2014/0221429A1. <http://www.freepatentsonline.com/y2014/0221429.html> 2. Nabil Al-Zekri, **Ismail Warad**, and others, Method of making palladium nanoparticles, US patent, 2018. No. 10016752. <http://www.freepatentsonline.com/10016752.html> 3. Nabil Al-Zekri, **Ismail Warad**, and others, Method of synthesizing (E)-1,2-di(pyridin-2-yl) ethene-1,2-diol, US patent, 2018. No. 10017474. <http://www.freepatentsonline.com/10017474.html> 4. Nabil Al-Zekri, **Ismail Warad**, and others, Sulfonamide Corrosion Inhibitors, US patent, 2019. No.33032.01. <http://www.freepatentsonline.com/10494722.html> 5. **Ismail Warad**, Abd Daraghmeh, Mohammed Al-Nuri, Abdelkader Zarrouk, Mohammad Mousa, Anas Al-Ali, Amjad M. Shraim, Method for synthesizing 1-(naphthalen-2-ylsulfonyl)-3-(thiophen-2-yl) diaziridine, USA Patent, 2020, Patent # 10,836,752. <https://www.freepatentsonline.com/10836752.html> 6. Yasser Hussein Issa Mohammed, Nabil Ahmed Qassim Al-Zeqri, Ali Mohammed Alsalme, Fahed Ahmed Ali Alharthi, **Ismail** **Warad** and others. The Ani-Angiogenesis Compounds, US patent, 2021. Application No.: 16/838,520, 2021. <https://www.freepatentsonline.com/10954200.html> 7. Atypical coupling method for the preparation of 1, 2-di (thiophen-2-yl) ethene-1, 2-diol compounds via a Cu(ii) catalyst, **Ismail Warad**, Amjad M. Shraim, Anas Al-Ali, Kifah SM Salih, Abdelkader Zarrouk, and Yousef Hijji, U.S. Patent Application 17/566,248, filed June 30, 2022. <https://patents.google.com/patent/US20220204487A1/en> 8. Method for the preparation of 1, 2-di(thiophen-2-yl) ethene-1, 2-diol compounds via a Cu(ii) catalyst, **Ismail Warad**, Amjad M. Shraim, Anas Al-Ali, Kifah SM Salih, Abdelkader Zarrouk, U.S. 718607B2, 2023. [https://patents.google.com/patent/US11718607B2/en](https://patents.google.com/patent/US11718607B2/en?fbclid=IwAR0V556H81UwNeg2XtvuH-2HlJ27GjVmykBi1SfQRja8fRowQrMw-BXpoww) 9. **Ismail Warad,** and others, **Method to synthesis mesopourous CuO material U.S**. Patent Application No.: Filed, 2025 Accepted. 10. **Ismail Warad,** and others, **Synthesis and anticancer activity of thiophene-3-carboxamide derivatives,** U.S. Patent Application No.: Filed, 2025 under evaluation. 11. A new process combining nanotechnology-magnetic for water treatment via desalination of Na+ to enhance irrigation efficiency in agriculture U.S. Patent Application, submitted 2025. 12. Development of dense, spongy membranes based on hydroxyapatite nanoparticles deposited on bioactive organic matrices for orthopedic and odonatological applications, U.S. Patent Application, submitted 2025. 13. Method to prepare N-heterocyclic hexahydropyrimidine-dihalophenol anticancer agent, U.S. Patent Application, submitted 2025. |
| **Chapter in a Books** | 1. A. Zarrouk, H. Zarrok, R. Salghi, B. Hammouti, R. Touir, **I. Warad**, F. Bentiss, H. Abou El Makarim, N. Benchat, Quantum Chemical Study of Some Triazoles Compounds as Corrosion Inhibitors of Copper in Acid Media, Ch3, pp 30-44, Lap Lambert Academic publisher 2012. 2. A. Zarrouk, H. Zarrok, R. Salghi, B. Hammouti, M. Bouachrine, **I. Warad,** T. B. Hadda, Theoretical Investigation on the Corrosion Inhibition of Copper by Quinoxaline Derivativesin Nitric Acid Solution, Ch4, pp 45-60, Lap Lambert Academic publisher 2012. |
| **2025** | 1. SC-XRD investigation of Oh dicationic [CuII(Py2C(OH)2)2]2+: A significant Jahn Teller distortion, 2D-S12/S9/S7 synthons, XRD/HSA-interactions, thermal, spectroscopic, anti-inflammatory and docking potential, Anas AlAli, Khalil Shalalin, Ahmed Abu-Rayyan, Hussien Khamees, Mohammad K. Al-Sadoon, Abdelkader Zarrouk, Mousa Al-Noaimi, **Ismail Warad**, Shaukath Ara Khanum, Journal Molecular Structure, 1323 (**2025**) 140749. <https://doi.org/10.1016/j.molstruc.2024.140749>. 2. Assessment of three quinolin-8-ol-imidazole hybrids as corrosion carbon steel inhibitors in acidic conditions employing practical and theoretical methodologies Z. Amrani, M. El Faydy, Z. Safi, N. Wazzan, A. Boutakiout, F. Benhiba, **I. Warad,** M. Rbaa, B. Lakhrissi, H. Oudda, Anees A. Khadom, A. Zarrouk, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 705 (**2025**) 135690. <https://doi.org/10.1016/j.colsurfa.2024.135690> 3. Biologically synthesized Tellurium/Zirconium bimetallic nanoparticles for antibacterial and electrochemical, Sindhu Devi, A. Muthuvel, S. Srinivasan, Nabil Al-Zaqri, Abeer A. AlObaid, **Ismail Warad**, Inorganic Chemistry Communications, 172 (**2025**) 113606. <https://doi.org/10.1016/j.inoche.2024.113606> 4. Maria Afzal, Zain Ashfaq, Tahir Iqbal, Sumera Afsheen, Ayesha Younas, Muhammad Farooq, Muhammad Yousaf, Rafa Almeer, **Ismail Warad**, Enhancing MB dye degradation and apple shelf life with Mn-doped ZnO nanoparticles: experimental and COMSOL simulation, The European Physical Journal Plus, 139 (**2025**) 1065. <https://link.springer.com/article/10.1140/epjp/s13360-024-05844-2> 5. An investigation of benzothiazole ionic compound as corrosion inhibitor for carbon steel in acidic media using electrochemical research, surface techniques, DFT, and MD simulation studies, A. Barrahi, M.E.M. Mekhzoum, Abhinay Thakur, A.E. Kacem Qaiss, G. Kaichouh, M. El Faydy, F. Benhiba, B. Dikici, R. Bouhfid, Hatem A. Abuelizz, **I. Warad**, A. Zarrouk, International Journal of Electrochemical Science 20 (**2025**) 100917. <https://doi.org/10.1016/j.ijoes.2024.100917> 6. Electrochemical, theoretical, and surface characterization of bis-Schiff-based corrosion inhibitors on carbon steel in HCl medium. Z. Amrani, A. Barrahi, Ahmed A. Farag, Abhinay Thakur, M. El Faydy, G. Kaichouh, Z. Safi, N. Wazzan, **I. Warad**, A. Zarrouk, Colloids and Surfaces A: 709 (**2025**) 136079. <https://doi.org/10.1016/j.colsurfa.2024.136079> 7. Assessment of three quinolin-8-ol-imidazole hybrids as corrosion carbon steel inhibitors in acidic conditions employing practical and theoretical methodologies, Z Amrani, M El Faydy, Z Safi, N Wazzan, A Boutakiout, F Benhiba, **I Warad**, M Rbaa, B Lakhrissi, H Oudda, Anees A Khadom, A Zarrouk, Chemical Data Collections, 56 (**2025**) 101181 <https://doi.org/10.1016/j.cdc.2025.101181> 8. Corrosion inhibition efficiency and adsorption mechanism of two dihydropyridazin-3(2H)-ones on carbon steel in hydrochloric acid medium: Experimental verification and theoretical analysis L. Chahir, A. Marzaq, N. Timoudan, M. El Faydy, F. Benhiba, D. Benmessaoud Left, M. Zertoubi, R. Saddik, S. Tighadouini, **I. Warad,** B. Dikici, M. Allali, A. Zarrouk, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 712 (**2025**)  136431.   <https://doi.org/10.1016/j.colsurfa.2025.136431>   1. A Detailed Experimental and Theoretical Evaluations of two Thiazolidine-2,4-Dione Derivatives as Corrosion Inhibitors for Carbon Steel in A Hydrochloric Acid Electrolyte, Latifa Chahir, Mohamed El Faydy, Fatima Zahra Tahri, Abhinay Thakur, Fouad Benhiba, Hatem A. Abuelizz, Driss Benmessaoud Left, Mustapha, Zertoubi, Mustapha Allali, **Ismail Warad**, Khalid Karrouchi, Khalid Bougrin & Abdelkader Zarrouk, Journal of Dispersion Science and Technology, xxx (**2025**) xxx. <https://doi.org/10.1080/01932691.2025.2452980>. 2. A hydrazine-hydroxy-pyran-2-one derivatives as a potential anticancer and antibacterial agent: Synthesis, Spectroscopic, SC-XRD, DFT/TD-DFT, Hirshfeld surface analysis, in silico molecular docking and Nonlinear Optical responses studies, Messaoud Yahiaoui, Salima Tabti, Douniazed Hannachi, Amel Djedouani, Abdenour Guerraoui, Mouloud Laidoudi, **Ismail Warad**, Helen Stoeckli-Evans, Solenne Fleutot, Tahani Mazyad Almutairi, Mohammad Shahidul Islam, Molecular Physics, xxx (**2025**) xxx. <https://doi.org/10.1080/00268976.2024.2446686> 3. A new and effective organic imidazole derivative inhibitor for carbon steel protection in 1M HCl medium: electrochemical analysis and computer simulation, A. Barrahi, M. El Faydy, F. Benhiba, Heri Septya Kusuma, D.R. Bazanov, Natalia A. Lozinskaya, I. Warad, B. Dikici & A. Zarrouk, Indian Chemical Engineer, xxx (**2025**) xxx. <https://doi.org/10.1080/00194506.2025.2455972> 4. Assessment of the effectiveness of new both pyridazine derivatives as corrosion carbon steel inhibitors in 1 M HCl:  Experimental, mathematical-statistical calculations and theoretical approaches, G. Laadam, N. Timoudan, A. Dahmani, S. Daoui, A. Thakur, H. A. Abuelizz, M. El Faydy, F. Benhiba, **I. Warad**, N. Benchat, A. A. Khadom, A. Zarrouk, Canadian Metallurgical Quarterly, xxx (**2025**) xxx. <https://doi.org/10.1080/00084433.2025.2463052> 5. Comparative study of the structure effect on the inhibition efficiency of three hydroxybenzylidene isonicotinohydrazide derivatives for corrosion carbon s teel in a 1 M HCl solution: experimental and theoretical studies, K. Souabni, M. Oubaaqa, A. Barrahi, K. Rouzi, N. Er-rahmany, I. Warad, Hatem A. Abuelizz, M. Bouatia, K. Karrouchi, Elyor Berdimurodov, R. Touir, I. Eliboev & A. Zarrouk, Canadian Metallurgical Quarterly, xx (**2025**) xx. <https://doi.org/10.1080/00084433.2025.2450752> 6. Inhibitory performance of (E)-4-(3,4,5 trimethoxyphenyl)but-3-en-2-one crystal toward carbon steel corrosion in acid medium by practical and theoretical approaches Mohamed El Faydy, Nadia Timoudan, Asma Barrahi, Ahmed A. Farag, Abhinay Thakur, Heri Septya Kusuma, **Ismail Warad,** Brahim Lakhrissi, Ali Dafali & Abdelkader Zarrouk, Journal of Dispersion Science and Technology, xx (**2025**) xx, <https://doi.org/10.1080/01932691.2025.2462698> 7. Corrosion mitigation properties of new imidazole derivative for acid pickling of C35E steel via experimental and theoretical studies, A. Barrahi, M. El Faydy, L. Adlani, F. Benhiba, G. Kaichouh, D.R. 6 Bazanov, Natalia A. Lozinskaya, M. Maatallah, M. El Hezzat , **I. Warad**, Zarrouk, Vietnam Journal of Chemistry, xxx (**2025**) xxx. Accepted. |
| **2024** | 1. Synthesis and Characterizations of a Novel trans-Pd(O,N)2 complex with an AZO-dye ligand: Crystal Structure, theoretical studies and DNA binding interactions Souheyla Chetioui, Zineb Fellahi, Amel Djedouani, Jean-Pierre Djukic, Abeer A. AlObaid, Khalil Shalalin, Anas AlAli, Nidal Jaradat, **Ismail Warad**, Scientific African, 26 (**2024**) e02411. <https://doi.org/10.1016/j.sciaf.2024.e02411> 2. Spectral, crystal structure of novel Pyran-2-one Zwitterion Schiff derivative: Thermal, Physicochemical, DFT/HSA-interactions, enol↔imine tautomerization and anticancer activity Salima Tabtia, Djouhra Aggoun, Diaa Aref, Ashraf Sawafta, Amel Djedouanif, Ahmed Abu-Rayyan, Abeer AlObaid, Jerome Lhoste, Carine Robert, Sandy Augste, Khalil Shalalin, **Ismail Warad**, Journal Molecular Structure 1310 (**2024**) 138258. <https://doi.org/10.1016/j.molstruc.2024.138258> 3. Synthesis of novel bi-Zwitterion Schiff base derivate from 4‑hydroxy-2H-pyran-2-one: DFT/HSA-interactions, thermal, physicochemical, TD-DFT and optical activity Tinhinane LOUAILECHE, Salima TABTI, Amel DJEDOUANI, Khalil SHALALIN, Abeer ALOBAID, Chaima MAOUCHE, Douniazed HANNACHI, Samra AMAMRA, Aur´elien CROCHET, Helen STOECKLI-EVANS, **Ismail WARAD**, Journal of Molecular Structure 1312 (**2024**) 138351. <https://doi.org/10.1016/j.molstruc.2024.138351> 4. Synthesis, XRD/HSA-interactions, synthon, TD-DFT/optical analysis, docking and antibacterial evaluation of two (±)-Isoflavonoid derivatives, Nawaf Al-Maharik, Malak Daqqa, Abeer AlObaid, Lubna Abdallah, Abdelkader Zarrouk, Anas AlAli, **Ismail Warad**, Journal of Molecular Structure, 1313 (**2024**) 138700, <https://doi.org/10.1016/j.molstruc.2024.138700> 5. Synthesis of a Family of Pd(II) Complexes Using Pyridyl-Ketone Ligands: Crystal Structure, Thermal, Physicochemical, XRD/HSA, Docking, and Heck Reaction Application, Anas AlAli, Khalil Shalalin, Abeer AlObaid, Khaled Alkanad, Abdelkader Zarrouk, **Ismail Warad,** and Shaukath Ara Khanum, ACSOmega, 23 (**2024**) 25073. <https://doi.org/10.1021/acsomega.4c02015> 6. Synthesis, Jahn-Teller labeled via crystal structure in trans-(ClO4)2CuII(Me2N-Py)4 complex: S9/S6/C-H…O synthons, thermal, physicochemical and 1BNA-docking A. AlAli, A. AlObaid, B.S. Chethan, K. Shalalin, N. Alzeqri, K. Alkanad, N.K. Lokanath, A. Zarrouk, I. Warad, S.A. Khanum, Journal King Saud University-Science 36 (**2024**) 103302. <https://doi.org/10.1016/j.jksus.2024.103302> 7. Evaluating the Efficacy of synthesized Quinoline Derivatives as Corrosion Inhibitors for Mild Steel in Acidic Environments: An Analysis Using Electrochemical, Computational, and Surface Techniques, Khadija Dahmani, Mouhsine Galai, Mohamed Rbaa, Adil Ech-Chebab, Nordine Errahmany, Lei Guo, Abeer A. AlObaid, A. Hmada, **I. Warad,** Journal of Molecular Structure, 1295 (**2024**) 136514. <https://doi.org/10.1016/j.molstruc.2023.136514> 8. Enhancing Photocatalytic Activity: Investigating the Synthesis and Characterization of BiVO4/Cu2O/graphene Ternary Nanocomposites Maira Liaqat, Tahir Iqbal, Iqra Maryam, Khalid Nadeem Riaz, Sumera Afsheen, Muhammad Sohaib, Nabil Al-Zaqri, **Ismail Warad,** Journal of Photochemistry & Photobiology, A: Chemistry441 (**2024**) 115122. <https://doi.org/10.1016/j.jphotochem.2023.115122> 9. Surface analysis and interface properties of a newly synthesized quinoline-derivative corrosion inhibitor for mild steel in acid pickling bath: Mechanistic exploration through electrochemical, XPS, AFM, contact angle, SEM/EDS, and computational studiesGalai, M, K. Dahmani, O. Kharbouch, M. Rbaa, N. AlZaqri, Lei Guo, Abeer AlObadi, A. Hmada, N. Dkhireche, E. Ech-chihbi, M. Ouakki, **I. Warad**, [Journal of Physics and Chemistry of Solids](https://www.sciencedirect.com/journal/journal-of-physics-and-chemistry-of-solids), 184 (**2024**) 111681. <https://doi.org/10.1016/j.jpcs.2023.111681> 10. Synthesis, optimization, DFT/TD-DFT and COX/LOX docking of new Schiff base N'-((9-ethyl-9H-carbazol-1-yl)methylene)naphthalene-2-sulfonohydrazide, Ahmed Abu-Rayyan, Khalil Shalalin, Mohammed Suleiman, Abed Daraghmeh, Anas Al Ali, Nawal Aljayyousi, Abdelkader Zarrouk, Mohammad Almaqashah, Ismail Warad, Ashraf Sawafta, Mor. J. Chem., 12 (**2024**) 78-88. <https://doi.org/10.48317/IMIST.PRSM/morjchem-v12i1.43440> 11. Forecasting and meta-features estimation of wastewater and climate change impacts in a coastal region using manifold learning, E. B. Priyanka, S. Vivek, S. Thangavel, V. Sampathkumar, N. Al-Zaqri, **I. Warad**, Environmental Research, 240 (**2024**) 117355. [https://doi.org/10.1016 /j.envres.2023.117355](https://doi.org/10.1016/j.envres.2023.117355) 12. Evaluating the Efficacy of synthesized Quinoline Derivatives as Corrosion Inhibitors for Mild Steel in Acidic Environments: An Analysis Using Electrochemical, Computational, and Surface Techniques Khadija Dahmani, Mouhsine Galai, Mohamed Rbaa, Adil Ech-Chebab, Nordine Errahmany, Lei Guo, Abeer A. AlObaid, A. Hmada, **I. Warad,** Journal of Molecular Structure, 1295 (**2024**) 136514. <https://doi.org/10.1016/j.molstruc.2023.136514> 13. Investigate the effect of Zno/Bi2O3 nanocomposite: A synergistic versatile approach for biomedical and environmental applications Maira Liaqat, Abdul Basit, Tahir Iqbal, Sumera Afsheen, Iqra Maryam, Ayesha Younas, Rana Rashad Mahmood Khan, Nabil Al-Zaqri, **Ismail Warad**, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 681 (**2024**) 132773. <https://doi.org/10.1016/j.colsurfa.2023.132773> 14. Investigation of the mechanisms and adsorption of a new pyrazole derivative against corrosion of carbon steel in hydrochloric acid solution: Experimental methods and theoretical calculations, N. Timoudan, A. Titi, M. El Faydy, F. Benhiba, R. Touzani, **I. Warad**, A. Bellaouchou, Ali Alsulmi, B. Dikici, F. Bentiss, A. Zarrouk, *Colloids and Surfaces A: Phys. and Eng. Aspects 682 (****2024****) 132771.*  <https://doi.org/10.1016/j.colsurfa.2023.132771> 15. Study of the physicochemical and microbiological quality of water from River innaouene, [Fiouz Abderrahim](http://www.ecoeet.com/Author-Fiouz-Abderrahim/253280), [Chakiri Said](http://www.ecoeet.com/Author-Chakiri-Said/199898), [Najem Ayoub](http://www.ecoeet.com/Author-Najem-Ayoub/253281), [El Hezzat Mounir](http://www.ecoeet.com/Author-El%20Hezzat-Mounir/253282), [Ben Abbou Mohamed](http://www.ecoeet.com/Author-Ben%20Abbou-Mohamed/253283), [Lamnii Abderrahim](http://www.ecoeet.com/Author-Lamnii-Abderrahim/253284), [Chibani Abdelkader](http://www.ecoeet.com/Author-Chibani-Abdelkader/253285), [Aouji Marouane](http://www.ecoeet.com/Author-Aouji-Marouane/253286), [**Ismail**](http://www.ecoeet.com/Author-Warad-Ismail/253287) **Warad**, [Zarrouk Zarrouk](http://www.ecoeet.com/Author-Zarrouk-Zarrouk/253288), Ecological Engineering & Environmental Technology (EEET) [25 (**2024**) 254.](http://www.ecoeet.com/Issue-2-2024,13241) <https://doi.org/10.12912/27197050/176495> 16. [Facile hydrothermal synthesis of Cu-doped MoS2 nanomaterial: a potential photocatalyst for degradation of MB dye](https://www.scopus.com/record/display.uri?eid=2-s2.0-85179588093&origin=resultslist&sort=plf-f&src=s&st1=Warad&st2=Ismail&nlo=1&nlr=20&nls=count-f&sid=90eaad263b3ade5725a9632a6b0ad87e&sot=anl&sdt=aut&sl=37&s=AU-ID(), T. Iqbal, M. A. Jameel, M. Farooq, M. S. Mansha, S. Afsheen, N. Al-Zaqri, A. El-marghany, **Ismail Warad**, Optical and Quantum Electronics, 56 (**2024**) 1.   <https://link.springer.com/article/10.1007/s11082-023-05759-9>   1. Insights into the Corrosion Inhibition Potential of *Chenopodium ambrosioides* Extract for Copper in Molar HCl Medium, N. Benzbiria, S. Echihi, A. Thoume, **I. Warad,** A. Zarrouk, D. Chebabe, D. Benmessaoud Left, M. Azzi1, M. Zertoubi, Journal of Bio- and Tribo-Corrosion 10 (**2024**)10. <https://doi.org/10.1007/s40735-023-00815-z> 2. Hindering Corrosion of Carbon Steel in the Hydrochloric Medium by a Newly Synthesized Quinolines: Experimental and Computational Approaches, H. Fakhry, M. El Faydy, F. Benhiba, M. Rbaa, M. Allaoui, **I. Warad,** B. Lakhrissi, H. Oudda, A. Zarrouk, Journal of Bio- and Tribo-Corrosion (**2024**) 10:11 <https://doi.org/10.1007/s40735-023-00814-0> 3. Efficient Synthesis and Characterization of Novel BiVO4/ZnO/graphene Composites to Study Enhanced Photocatalytic Activity for Organic Pollutant Degradation, Maira Liaqat, Sayyam Ahsan, Tahir Iqbal, Sumera Afsheen, Rana Rashad Mahmood Khan, Nabil Al-Zaqri, Adel E.M. Yahya and **Ismail Warad**, [Journal of Physics D: Applied Physics](https://iopscience.iop.org/journal/0022-3727), 57 (**2024**) 1. <https://doi.org/10.1088/1361-6463/ad14bc> 4. Geometrical Optimization of TiO2-Noble Metal Grating for Enhanced Photocatalytic Activity and SPR Biosensor Application.Tahir Iqbal, Munazzam Ali, Sayyam Ahsan, Sumera Afsheen, Muhammad Farrooq, Adel El-marghany & **Ismail Warad**, *Plasmonics* (**2024**). <https://doi.org/10.1007/s11468-024-02198-4> 5. New Insights on the Corrosion–Erosion Behavior of 904L Stainless Steel in Phosphoric Acid Containing Impurities, S. Aftimi, Y. Kerroum, A. Guenbour, A. Bellaouchou, H. Idrissi, R. Boulif, N. Semlal, I. Warad, A. Zarrouk, Journal of Bio- and Tribo-Corrosion 10 (**2024**) 13 <https://doi.org/10.1007/s40735-024-00818-4> 6. Bio- Electro-Fenton Process: Application to the Antiviral Ribavirin Mineralization in Aqueous Medium, I. Haji, M. Shueai Yahya, L. Rachidi, **I. Warad**, A. Zarrouk, A. Talidi, M. El Karbane, G. Kaichouh, Anal. Bioanal. Electrochem. 16 (**2024**) 79-99. <https://www.doi.org/10.22034/abec.2024.710596>. 7. Impact of margins on groundwater quality in the province of Taza, Morocco, A. Fiouz, M. El Hezzat, S. Chakiri, A. Najem, A. Chibani, Z. Doudech, H. El gasmi, I. Warad, N. Chahboun, A. Zarrouk*,* International Journal of Chemical and Biochemical Sciences (IJCBS), 25 (**2024**) 462-477. <https://www.iscientific.org/wp-content/uploads/2024/01/56-IJCBS-24-25-13-56.pdf> 8. Application of quercetin as a green inhibitor to prevent mild steel corrosion in the petroleum industry: Experimental and modelling techniques J. Saranya, K. Vagdevi, B. Jyothirmai, N. Anusuya, F. Benhiba, **I. Warad**, Chemical Data Collections 50 (**2024**) 101125, <https://doi.org/10.1016/j.cdc.2024.101125> 9. Synthesis and characterization of new eco-friendly vitreous system Bi2O3–B2O3–BaO: Structural, morphologic, and thermal analysis I. Saber a, K. Dahmani, M. Galai, A. EL Magri, R. Hsissou, H. Barbita, M. Belfaquir, I. Warad, N. AL-Zaqri g, M.S. Elyoubi, Optical Materials 149 (**2024**) 115079. <https://doi.org/10.1016/j.optmat.2024.115079> 10. Chemical composition, anticancer, antimicrobial activity of Aloysia citriodora Palau essential oils from four different locations in Palestine Nawaf Al‑Maharik, Yousef Salama, Nisreen Al‑Hajj, Nidal Jaradat, Naji Thaer Jobran, **Ismail Warad**, Lina Hamdan, Moataz Abo Alrob, Asil Sawafta and Adel Hidmi, BMC Complementary Medicine and Therapies 24 (**2024**) 94. [https://doi.org/10.1186/s12906‑024‑04390‑9](https://doi.org/10.1186/s12906024043909) 11. Adsorption and Inhibition Mechanisms of New Pyrazole Derivatives for Carbon Steel Corrosion in Hydrochloric Acid Solutions Based on Experimental, Computational, and Theoretical Calculations, Loubna Adlani, Nisrine Benzbiria, Abderrahim Titi, Nadia Timoudan, **Ismail Warad**, Abeer AlObaid, Basheer Mohammed Al-Maswari, Fouad Benhiba, Rachid Touzani, Hassan Zarrok, Fouad Bentiss, Hassan Oudda, and Abdelkader Zarrouk, *ACS Omega,* 12 (**2024**) 13746. <https://doi.org/10.1021/acsomega.3c08282> 12. Electrochemical, Thermodynamic, and Surfaces Investigations on The Use of Mentha Piperita Essential Oil as A Green Corrosion Inhibitor for Carbon Steel in 1 M HCl Solution A. Boutakiout, Z. Amrani, A. Barrahi**, I. Warad**, F. Benhiba, M. El Hezzat, M. Lamhamdi, M. Beraich, G. Kaichouh, A. Bellaouchou, and A. Zarrouk, Anal. Bioanal. Electrochem. 16 )**2024**(227-244. <https://www.doi.org/10.22034/abec.2024.712239> 13. Corrosion Inhibition Effect of Quinoxaline Derivative on Carbon Steel in Hydrochloric Acid: Experimental and Theoretical Investigations. L. Chahir1 M. El Faydy, N. Abad, F. Benhiba, **I. Warad**, D. Benmessaoud Left, M. Zertoubi M. Allali, G. Kaichouh, B. Dikici, A. Bellaouchou, Y. Ramli, A. Zarrouk, Journal of Bio- and Tribo-Corrosion, 10 (**2024**) 36. <https://doi.org/10.1007/s40735-024-00840-6> 14. Anticorrosive characteristics of imidazole derivative on carbon steel in 1 M HCl: Original scientific paper, A. Barrahi, A. Bellaouchou, B. Dikici, I. Warad, M. Maatallah, N. Lozinskaya, D. Bazanov, F. Benhiba, L. Adlani, M. El Faydy, A. Zarrouk, Journal of Electrochemical Science and Engineerin, 14 (**2024**) 193. <https://doi.org/10.5599/jese.2136> 15. Photocatalytic reduction of aqueous carcinogenic pollutants on CdS-polymer nanocomposites, Mehwish Arshad, Tariq Yaseen, Talib K. Ibrahim, Nabil Al-Zaqri, Ismail Warad, Ehtisham Raheem, Ziaur Rehman, Materials Chemistry and Physics, 318 (**2024**) 129261. <https://doi.org/10.1016/j.matchemphys.2024.129261> 16. Low alkaline vegetation concrete with silica fume and nano-fly ash composites to improve the planting roperties and soil ecology Ganesh Prabhu Ganapathy, Shunmuga Priya Kaliyappan, Venkada Lakshmi Ramamoorthy, Sethuraman Shanmugam, Abeer AlObaid, **Ismail Warad**, Sampathkumar Velusamy, Aravindan Achuthan, Hemavathi Sundaram, Mohanavel Vinayagam, and Vivek Sivakumar, Nanotechnology Reviews 13 (2024) 20230201. <https://doi.org/10.1515/ntrev-2023-0201> 17. Explanation of the Quinoxaline Analog's Adsorption and Inhibition Mechanism for Carbon Steel Corrosion in 1 M HCl Based on Experiments and Theoretical Calculations, L. Chahir, M. El Faydy, L. Adlani, N. Abad, I. Warad, F. Benhiba, D. Benmessaoud Lefth, M. Zertoubi, M. Allali, B. Dikici, G. Kaichouh, Y. Ramli, and A. Zarrouk, Phys. Chem. Res., 12, (**2024**) 881. <https://doi.org/10.22036/pcr.2024.440352.2472> 18. Performance of a new pyrazole derivative in 1 M HCl on the corrosion of carbon steel: experimental, quantum chemical and molecular dynamics simulation studies L. Adlani, N. Benzbiria, A. Titi, N. Timoudan, F. Benhiba, I. Warad, G. Kaichouh, R. Touzani, H. Zarrok, B. Dikici, Journal of Dispersion Science and Technologym, 14 (**2024**) 40. <https://doi.org/10.1080/01932691.2024.2304641> 19. Qualitative and Quantitative Analysis of Phoenix dactilifera L. Seeds in Morocco with Antioxidant Activities Using Chemometrics.Yasmina Halabi, Chaimae Nasri, Chakir El Guezzane, Hicham Harhar, Nabila Chahboun, **Ismail Warad**, Abdelkebir Bellaouchou, Abdelkader Zarrouk, Mohamed Tabyaoui Publication date, Ecological Engineering & Environmental Technology (EEET) 25 (**2024**) 81. <https://doi.org/10.12912/27197050/183179> 20. Bio-Electro-Fenton process: Application to the antiviral Ribavirin mineralization in aqueous medium, I. Haji, M Shueai Yahya, L Rachidi, **I Warad**, Abdelkader M Zarrouk, A Talidi, M El Karbane, G Kaichouh, Analytical and Bioanalytical Electrochemistry, 16 (**2024**) 79.   <https://www.abechem.com/article_710596_37390a47b872fcfe8a0d4ff33d20f2d7.pdf>   1. 4‑Benzyl‑2‑(3‑(4‑fluorophenyl)‑2‑oxopropyl)‑6‑phenyl pyridazin‑3(2H)‑one as a Carbon Steel Corrosion Inhibitor in an Acidic Environment: Electrochemical, Spectroscopic, Thermodynamic, and Quantum Chemical Assessments A. Zaroual, S. Daoui, M. El Faydy, N. Timoudan, A. Chraka,· H. Zarrok,· A. Bellaouchou,· I. Warad, K. Karrouchi, N. Benchat, S. Chtita, A. Zarrouk, Journal of Bio- and Tribo-Corrosion 10 (**2024**) 64, <https://doi.org/10.1007/s40735-024-00866-w> 2. Study of the inhibition of carbon steel corrosion by two pyridazin derivatives in 1M HCl: Experimental study and theoretical approach H. Zarrok, S. Daoui, N. Benzbiria, A. Barrahi, F. Benhiba, M. Galai, M. Ebn Touhami, **I. Warad,** K. Karrouchi, N. Benchat, A. Zarrouk, Chemical Data Collections, 51 (**2024**) 101140. <https://doi.org/10.1016/j.cdc.2024.101140> 3. Melon seed shell synthesis N, S-carbon quantum dots as ultra-high performance corrosion inhibitors for copper in 0.5 M H2SO4, Yan Liu, Haiqin Ren, Zhili Gong, Bochuan Tan, Wei Lan, Qingwei Dai, X. Zheng, Lei Guo, Abeer A. AlObaid, **Ismail Warad**, Journal of Industrial and Engineering Chemistry, 137 (**2024**) 593. <https://doi.org/10.1016/j.jiec.2024.04.019> 4. Enhanced corrosion resistance of carbon steel in an aggressive environment by a recently developed pyrazole derivative: Electrochemical, SEM/XPS/AFM, and theoretical investigation N. Timoudan, M. El Faydy, A. Titi, **I. Warad,** F. Benhibam, A. Alsulmi, B. Dikici, A. Touzani, A. Dafali, F. Bentiss, A. Zarrouk, Journal of Solid-State Electrochemistry, 28 (**2024**) 2837. <https://doi.org/10.1007/s10008-024-05846-1> 5. Waste Snail Shells-Derived Mixed Oxide Catalyst for Efficient Transesterification of Vegetable Oil: Towards Sustainable Biodiesel Production Redouane Ouafi, Rajesh Haldhar, Imane Mehdaoui, Meryem Asri, Abeer A. AlObaid, **Ismail Warad,** Mustapha Taleb, Zakia Rais, Seong-Cheol Kim, Materials Today Communications, 39 (**2024**) 109128. <https://doi.org/10.1016/j.mtcomm.2024.109128> 6. Exploring the Efficacy of Novel Thiohydantoin Derivatives with Arylacetamide Core as Corrosion Inhibitors for Mild Steel in Acidic Medium: Insights from Electrochemical Analysis, Comprehensive Characterization, and Quantum Studies Khadija Dahmani, Abderrazzak El Moutaouakil Ala Allah, Adil Ech-chebab, Otmane Kharbouch, Mohamed Khattabi, Mouhsine Galai, Abeer A. AlObaid, **Ismail Warad**, Journal of Molecular Structure 1312 (**2024**) 138612. <https://doi.org/10.1016/j.molstruc.2024.138612> 7. Synthesis and characterization of wo3/bivo4/graphene ternary nanocomposites for the photodegradation of methlyene blue and tetracycline, Maira Liaqat, Rana Mustansar Munir, Iqra Maryam, Tahir Iqbal, Sumera Afsheen, Azeem Ghulam Nabi, **Ismail Warad**, Materials Chemistry and Physics, 320 (**2024**) 129465. <https://doi.org/10.1016/j.matchemphys.2024.129465> 8. Synthesis, Biological Properties, and Molecular Docking Study of Novel 1,2,3-Triazole-8-quinolinol Hybrids Mohamed ElFaydy, Loubna Lakhrissi, Naoufel Dahaieh, Khadija Ounine, Burak Tuzun, Nabila Chahboun, Ahmed Boshaala, Abeer AlObaid, **Ismail Warad**, Brahim Lakhrissi, and Abdelkader Zarrouk, ACSOmega, 23 (**2024**) 25395. <https://doi.org/10.1021/acsomega.4c03906> 9. Unleashing the potential of ceramic discards as a green marvel in self-compacting concrete, P. Subashree, V. Sampathkumar, S. Gowtham, Abeer A. AlObaid, **Ismail Warad,** Journal of Ceramic Processing Research, 25 (**2024**) **220**. <https://doi.org/10.36410/jcpr.2024.25.2.220> 10. Pyridazine derivatives as effective anti-corrosion additives for carbon steel in 1M HCl: Electrochemical, surface and theoretical studies H. Zarrok, S. Daoui, A. Barrahi, L. Adlani, Abeer AlObaid, F. Benhiba, M. Galai, M. Ebn Touhami, **I. Warad,** K. Karrouchi, N. Benchat, A. Zarrouk, International Journal of Electrochemical Science, 19 (**2024**) 100600. <https://doi.org/10.1016/j.ijoes.2024.100600> 11. Experimental and theoretical insights into Artemisia Stems aqueous extract as a sustainable and eco–friendly corrosion inhibitor for mild steel in 1 M HCl environment, Asmae Berrissoul, Ali Dafali, Fouad Benhiba, Halima Outada, **Ismail Warad**, Burak Dikici, Abdelkader Zarrouk, Environmental Science and Pollution Research, 31 (**2024**) 36643. <https://doi.org/10.1007/s11356-024-33636-9> 12. Investigation of a pyridazinone derivative as a corrosion inhibitor for carbon steel in acidic conditions using experimental and theoretical methods, A. Zaroual, S. Daoui, M. El Faydy, N. Timoudan, A. Chraka, H. Zarrok, G. Kaichouh, I. Warad, Hatem A. Abuelizz, K. Karrouchi, N. Benchat, S. Chtita, A. Zarrouk, International Journal of Electrochemical Science, 19 (**2024**) 100732, <https://doi.org/10.1016/j.ijoes.2024.100732> 13. Predicting photovoltaic parameters using DFT and TD-DFT calculations of novel triphenylamine-based organic dyes: The effect of the internal or auxiliary acceptors on photovoltaic performance for DSSC Abdelhamid Khadiri, **Ismail Warad,** Hatem A. Abuelizz, Mohamed Ebn Touhami, Hassan Oudda, Abdelkader Zarrouk, Solar Energy 279 (2024) 112832 <https://doi.org/10.1016/j.solener.2024.112832> 14. Exploring Innovative Antibacterial Properties of Porous ALT (Al2O3/TiO2) Composite Muhammad Yousaf, Rana Mustansar Munir, Tahir Iqbal, Sumera Afsheen, Muhammad Isa Khan, Hussain Wali, Hassan Imam Rizvi, Phuong V. Pham, Abeer A. AlObaid, **Ismail Warad**, Shahzadi Rafique, Materials Chemistry and Physics, 325 (**2024**) 129736, <https://doi.org/10.1016/j.matchemphys.2024.129736> 15. Inhibition performance of a novel quinoxaline derivative for carbon steel corrosion in 1 M HCl, Latifa Chahir, Fouad Benhiba, Nadeem Abad, Hassan Zarrok, **Ismail Warad**, Mousa Al-Noaimi, Driss Benmessaoud Left, Mustapha Zertoubi, M. Allali, Abdelkebir Bellaouchou, Youssef Ramli and Abdelkader Zarrouk, *J. Electrochem. Sci. Eng.14* (**2024**) 275. [*http://dx.doi.org/10.5599/jese.2177*](http://dx.doi.org/10.5599/jese.2177) 16. Corrosion inhibition performance of benzimidazole derivatives for protection of carbon steel in hydrochloric acid solution, N. Timoudan, Arej S. Al-Gorair, L. El Foujji, **I. Warad**, Z. Safi, F. Benhiba, A. El Kacem Qaiss, R. Bouhfid, F. Bentiss, Salih S. Al-Juaid, Metwally Abdallah, A. Zarrouk, RSC Adv., 14 (**2024**) 30295. [**h**ttps://doi.org/10.1039/d4ra05070c](https://doi.org/10.1039/d4ra05070c) 17. Experimental and theoretical approach for a better understanding of the mechanisms of adsorption and inhibition of corrosion for carbon steel by thiazolidine derivatives in 1M HCl medium, L. Chahir, N. Benzbiria, F. Zahra Thari, M. El Faydy, F. Benhiba, D. B. Left, M. Zertoubi, **I. Warad,** M. Allali, K. Bougrin, A. Zarrouk, **Phys. Chem. Chem. Phys.,** 26 (**2024**) 23783. <https://doi.org/10.1039/D4CP02609H> 18. Molecular Structure Impact of Two Bisphenol‑Containing Nitro and Bromo on Carbon Steel Corrosion Inhibition in 1 M HCl Medium: Electrochemical, Spectroscopic, and Theoretical Investigations K. Souabni, A. Barrahi, N. Errahmany, M. El Faydy, M. El Hezzat, G. Kaichouh, H. Zarrok, **I. Warad,** R. Touir, A. Zarrouk, Journal of Bio- and Tribo-Corrosion 10 (2024) 105. <https://doi.org/10.1007/s40735-024-00909-2> 19. Methanolic extract of artemisia as a green corrosion inhibitor for copper in 0.5 M nitric acid, S. Echihi, N. Benzbiria, A. Thoume, M. Boudalia, A. Bellaouchou, M. Zertoub, **I. Warad**, M. Tabyaoui, A. Zarrouk, Chemical Data Collections, 54 (**2024**) 101163. <https://doi.org/10.1016/j.cdc.2024.101163> 20. Assessment of ethanolic extract of Dittrichia viscosa from Kardoussa Douar region of Taza in Morocco as antioxidant and green inhibitor for carbon steel corrosion in acidic medium N. Chahboun, N. Timoudan, O. Belhoussaine, A. Barrahi, Abhinay Thakur, **I. Warad,** R. Flouchi, A. Zaroual, F. Benhiba, M. El Faydy, K. Karrouchi, H. Harhar, Hatem A. Abuelizz, A. Zarrouk, International Journal of Electrochemical Science, 19 (**2024**) 100812. <https://doi.org/10.1016/j.ijoes.2024.100812> 21. TiO2 nanoparticles coupled with biological treatment, Hind Babas, Ghizlane Kaichouh, Safae Ajebli, Zaki S. Safi, **Ismail Warad,** Miloud El Karbane, Abdelkbir Bellaouchou, Abdelkader Zarrouk, International Journal of Environmental Analytical Chemistry**,** xxx (**2024**) xxx. [*https://www.tandfonline.com/doi/abs/ 10.1080/03067319. 2023.2297291*](https://www.tandfonline.com/doi/abs/10.1080/03067319.2023.2297291) 22. Evaluating the effectiveness of rotten rice to bioremediate formaldehyde with power generation through a microbial fuel cell,M. N. M. Ibrahim, C. Guerrero-Barajas, M. O. Idris, A. A. Alsaedi, S. S. Abdullahi, A. El-Marghany, **I. Warad,** International Journal of Environmental Science and Technology, xxx (**2024**) xxx. <https://doi.org/10.1007/s13762-024-05955-4> 23. Influence of N2, N6 -bis((3,5-dimethyl-1h-pyrazol-1-yl)methyl) pyridine-2,6-diamine on C35E steel corrosion in 1 M HCl medium: Experimental and theoretical studies, N. Timoudan, M. El Faydy, A. Titi, F. Benhibaa, **I. Warad**, R. Touzanif , R. Touirg , Ali Alsulmi, B. Dikicij , A. Bellaouchou, F. Bentissk, and A. Zarrouk, Journal of Dispersion Science and Technology, xxx (**2024**) xxx. <https://doi.org/10.1080/01932691.2024.2376691> 24. Acid corrosion inhibition of mild steel by 8-hydroxyquinoline derivatives: organic synthesis, characterization, chemical, electrochemical investigation and theoretical calculations, Z. Rouifia , M. Rbaab, N. Errahmany , R. Seghiri , I. Warad , H. Oudda , B. Lakhrissi , E. Berdimurodovg, N. Alievj, and A. Zarrouk, Journal of Dispersion Science and Technology, xxx (**2024**) xxx., <https://doi.org/10.1080/01932691.2024.2380035>. 25. Detailed experimental of indazole derivatives as corrosion inhibitor for brass in acidic environment: electrochemical/theoretical/surface studies Zakia Aribou, Moussa Ouakki, Nidal Khemmou, Sarra Sibous, Elhachmia Ech‑chihbi, Zakaria Benzekri, Mouhsine Galai, Said Boukhris, Abeer A. AlObaid, **Ismail Warad,** Journal of Applied Electrochemistry, xxx (**2024**) xxx. <https://doi.org/10.1007/s10800023-01960-6> 26. Anticorrosive characteristics of imidazole derivative on carbon steel in 1 M HCl, Asma Barrahi, Mohamed El Faydy, Loubna Adlani, Fouad Benhiba, Danil R. Bazanov, Natalia A. Lozinskaya, Mohamed Maatallah, **Ismail Warad**, Burak Dikici, Abdelkbir Bellaouchou, Abdelkader Zarrouk, J. Electrochem. Sci. Eng. xxx (**2024**) xxx. <http://dx.doi.org/10.5599/jese.2136> 27. Geometrical Optimization of 2D MoS2-Ag Rectangular and Triangular Grating for Enhanced Solar Cell Efficiency, Sayyam Ahsan, Tahir Iqbal, Sumera Afsheen, Muhammad Isa Khan, Khalid Nadeem Riaz, Muhammad Yousaf, Khalid Iqbal, Abeer A AlObaid, **Ismail Warad,** Plasmonics xxx (**2024**) xxx. <https://doi.org/10.1007/s11468-024-02276-7> 28. Oxidative stress signatures and lipid accretion in Desmodesmus subspicatus under in vitro drought stress simulation, Amna Javed, Tahir Iqbal, Hira Naseer, Abdul Samad Mumtaz, Ayesha Younas, Sumera Afsheen, Abeer A. Alobaid, **Ismail Warad**, Biomass Conversion and Biorefinery, xxx (**2024**) xxx. <https://doi.org/10.1007/s13399-024-05624-z> 29. Experimental and molecular modeling approach on the corrosion behavior of mild steel in HCl solution with quinoxaline inhibitors Thami Laabaissi, Zakaria Rouifi, Mohcine Missioui, Fouad Benhiba, Arej S. Al-Gorair, Salih S. Al-Juaid, Metwally Abdallah, Jagadeesan Saranya, **Ismail Warad**, Hassan Oudda, Youssef Ramli & Abdelkader Zarrou, Journal of Dispersion Science and Technology, xxx (**2024**) xxx. <https://doi.org/10.1080/01932691.2024.2417682> 30. Synthesis, characterization and performance of ecofriendly epoxy resin as a highly efficient corrosion inhibition for mild steel in 1m HCl solution, Khadija Dahmani, Mohamed Khattabi, Nordine Errahmany, Issam Saber, Mouhsine Galai, Mohammed Cherkaoui, Anour El Magric, Rachid Hsissou, Abdelfettah Hmada, Mohamed EbnTouhami, Abeer A. AlObaid, Basheer M. Al-Maswari, and **Ismail Warad**, Journal of Dispersion Science and Technology, xxx (**2024**) xxx. [**https://doi.org/10.1080/01932691.2024.2417675**](https://doi.org/10.1080/01932691.2024.2417675)**.** |
| **2023** | 1. Method for the preparation of 1, 2-di(thiophen-2-yl)ethene-1,2-diol compounds via a Cu(II) catalyst, **Ismail Warad**, Amjad M. Shraim, Anas Al-Ali, Kifah SM Salih, Abdelkader Zarrouk, U.S. 718607B2 , 2023. <https://patents.google.com/patent/US11718607B2/en> 2. One-pot reproducible Sonosynthesi of trans-[Br(NՈN’)Cu(μBr)2Cu(NՈN’)Br] dimer: [H… Br S(9)] synthons, spectral, DFT/XRD/HSA, thermal, docking and novel LOX/COX enzyme inhibition Anas AlAli, Hussien Ahmed Khamees, Mahendra Madegowd, Abdelkader Zarrouk, Karthik Kumarad, Nasseem El-khatatne, **Ismail Warad**, Journal of Molecular Structure, 1275 (**2023**) 134626.   <https://www.sciencedirect.com/science/article/pii/S0022286022022712>   1. Jahn-Teller distortion in SP-like [Cu(bipy)(triamine)].2BF4 complexes with novel N-H…F/C-H…F synthon: XRD/HSA-interactions, Physicochemical, electrochemical, DFT, docking and COX/LOX inhibition, Anas AlAli, Mousa Al-Noaimi, Abeer AlObaid, Hussien Ahmed Khamees, Abdelkader Zarrouk, Karthik Kumara, **Ismail Warad,** Journal of Molecular Liquids, 387 (**2023**) 122689. <https://doi.org/10.1016/j.molliq.2023.122689> 2. Novel 3-(2-thienyl) acrylic acid bridge di-triphenyltin(IV){[(Ph)3SnCl)2COO]-[Et3NH]+, [(Ph)3SnCl2)][Et3NH]+} complex: XRD/HSA-interactions, physicochemical, thermal and POM/ antifungal evaluation, Mohammed Dahmani, Abderrahim Titi, Abdelkader Et-Touhami, Abderrahmane Yahyi, Rachid Touzani, Mohamed Siaj, Abdelkader Zarrouk, Abeer A. AlObaid, Mohamed Saadi, Lahcen El Ammari, **Ismail Warad**, *Inorganica Chimica Acta* 557 (**2023**) 121695. <https://doi.org/10.1016/j.ica.2023.121695> 3. Studies on New Imidazo[2,1-b][1,3,4]thiadiazole Derivatives: Molecular Structure, Quantum Chemical Computational, and In silico Study of Inhibitory Activity Against Pim-1 Protein by using Molecular Modelling Methods and ADMET Profiling Hussien Ahmed Khamees, Mahesh Sankanahalli Srinivas, Omantheswara Nagaraja, Mahendra Madegowda, Vindu Vahini M , Kumara Chaluvaiah, Jagadeesh Prasad Dasappa , **Ismail Warad,** Journal of Molecular Structure 1272 (**2023**) 134161. <https://doi.org/10.1016/j.molstruc.2022.134161> 4. Rapid microwave synthesis of tetrahedral pyrazole/Co(II) complex: [N-H···Cl] synthon, XRD/HSA-interactions, DFT/TD-DFT, physiochemical, antifungal, antibacterial, and POM bio-calculations Abderrahim Titi, Ismail Badran, Mohammed Dahmani, Mouslim Messali , Rachid Touzani , Abdelkader Zarrouk, Yann Garcia, Mousa Al-Noaimi, Mohammed Suleiman, **Ismail Warad,** Journal of Molecular Structure, 1293 (**2023**)  136297.   <https://doi.org/10.1016/j.molstruc.2023.136297>   1. Structural investigations and theoretical insights of a polymethoxy chalcone derivative: Synthesis, crystal structure, 3D energy frameworks and SARS CoV-2 docking studies, Karthik Kumara, Mahima Jyothi, Salma Kouser, A. H. Uday Kumar, **Ismail Warad,** Shaukath Ara Khanum and Neratur Krishnappagowda Lokanath, Journal of Molecular Structure, 1272 (**2023**) 134226.   <https://doi.org/10.1016/j.molstruc.2022.134226>   1. Tautomerization of diazene<=>hydrazine via single proton tautomerization, spectral, XRD/HSA-interactions, optical and DFT/TD-DFT of new hydrazine ligand, Assia Mili, Souheyla Chetioui, Amel Djedouanid, Jean-Pierre Djukic Abeer AlObaid, Abdelkader Zarrouk, **I. Warad**, Journal of Molecular Structure, 1272 (**2023**) 134113   <https://www.sciencedirect.com/science/article/pii/S0022286022017641>   1. End-group engineering of non-fused benzothiadiazol derivatives with thiophene rings based small donor molecules for tuning the photovoltaic properties via DFT approach, Ehsan Ullah Rashid, Nabil Al-Zaqri, Ahmed Boshaala, **Ismail Warad,** Javed Iqbal, Muhammad Ans, Muhammad Rizwan, Mahmoud A.A. Ibrahim, Rasheed Ahmad Khera, Computational and Theoretical Chemistry 1220 (**2023**) 114001.   <https://doi.org/10.1016/j.comptc.2022.114001>   1. Effect of Molybdenum Oxide on Structural Characteristics, Thermal Properties, and Chemical Dissolution of (50-x)K2O-xMoO3-50P2O5 Phosphate Glasses, Asmae Er-Rafai, Mouloud El Moudane, Yasmina Alaoui, Mohamed Laourayed, M'hamed Taibi, **Ismail Warad**, Abdallah Guenbour, Abdelkabir Bellaouchou, Abdelkader Zarrouk, Biointerface Research in Applied Chemistry, 13 (**2023**) 294.   <https://doi.org/10.33263/BRIAC133.294>   1. Synthesis, characterization, DFT, and thermogravimetric analysis of neutral Co(II)/Pyrazole complex, catalytic activity toward Catecholase and Phenoxazinone oxidation. M. El Boutaybi, Nadia Bouroumane, Mohamed Azzouzi, Mohamed Aaddouz, Adel El-marghany, Charafeddine Jama, Ahmed Abu-Rayyan, **Ismail Warad**, Crystals 13, (**2023**) 155.   <https://www.mdpi.com/2073-4352/13/2/155>   1. Date palm phoenix dactilifera. seed oil: variety effects on physicochemical characteristics, fatty acid composition, sterol and tocol contents, Yasmina Halabi, Chaimae Nasri, Chakir El Guezzane, Hicham Harhar, Said Gharby, Abdelkabir Bellaouchou, **Ismail Warad**, Abdelkader Zarrouk, Mohamed Tabyaoui, J Microbiol Biotech Food Sci. 12 (**2023**) e5725   <https://doi.org/10.55251/jmbfs.5725>   1. 2-[(4-Chlorophenyl) imino]-1, 2-diphenylethanone, N Ziani, B Ouarda, S Kadri, E Jeanneau, **I Warad**, A Djedouani, IUCrData, 8 (**2023**) x230065.   <https://iucrdata.iucr.org/x/issues/2023/01/00/hb4414/index.html>   1. The Inhibiting Effect of Aqueous Extracts of Artemisia Absinthium L. (Wormwood) on the Corrosion of Mild Steel in HCl 1 M, A Hbika, A Bouyanzer, M Jalal, N Setti, E Loukili, A Aouniti, Y Kerroum, **I Warad,** B Hammouti, Abdelkader M Zarrouk, Analytical and Bioanalytical Electrochemistry, 15 (**2023**) 17-35.   <http://www.abechem.com/article_701392_19f873832c0a6221097b8443592657e5.pdf>   1. Outstanding anti-corrosion performance of two pyrazole derivatives on carbon steel in acidic medium: Experimental and quantum-chemical examinations, G. Laadama, M. El Faydyb, F. Benhibaa, A. Titi, H. Amegroud, Arej S Al-Gorair, H. Hawsawif, R. Touzanid, **I. Warad,** A. Zarrouk, Journal of Molecular Liquid, 375 (**2023**) 121268.   <https://www.sciencedirect.com/science/article/pii/S0167732223000715?via%3Dihub>   1. Modeling of Tenofovir Disoproxil Fumarate decontamination using sodium alginate-encapsulated activated carbon: Molecular Dynamics, Monte Carlo and Density Functional Theory, S Ajebli, G Kaichouh, M Khachani, H Babas, M EL Karbane, Zaki S Safi, A Berisha, V Mehmeti, **I. Warad**, A Zarrouk, A Bellaouchou, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 667 (**2023**) 131057.   <https://www.sciencedirect.com/science/article/pii/S0927775723001413>   1. Novel Bromo and methoxy substituted Schif base complexes of Mn(II), Fe(III), and Cr(III) for anticancer, antimicrobial, docking, and ADMET studies Laila H.Abdel‑Rahman, AmaniA.Abdelghani, AbeerA.AlObaid, DoaaAbou El‑ezz, **Ismail Warad**, Mohamed R. Shehata & Ehab M.Abdalla, Scientifc Reports 13 **(2023**) 3199   <https://doi.org/10.1038/s41598-023-29386-2>   1. Promising Antioxidant, Antibacterial and Anticorrosive Properties of an Essential Oil Extract of Origanum Majorana L. from Morocco Malika Sabiha, Siham Yanisse, Maria Boudalia, Ayoub Najem, Fouad Benhiba, Amin Belfhaili , Siham Echihi, Nabila Chahboun, Abdallah Guenbour, **Ismail Warad**, Abdelkabir Bellaouchou, Abdelkader Zarrouk, Mustapha Bouatia, [Biointerface Research in Applied Chemistry](https://biointerfaceresearch.com/), 13 (**2023**) 528.   <https://biointerfaceresearch.com/wp-content/uploads/2023/02/BRIAC136.522.pdf>   1. Sulfur Nanoparticle as an Effective HEK-293 Anticancer Agent Mohammed Suleiman, Anas Al Ali, Ahmed Abu-Rayyan, Nawal Aljayyousi, Khaled Alkanad, Nasseem El-khatatneh, Mohammad Almaqashah, Abdelkader Zarrouk, Karthik Kumara, **Ismail Warad**, Mor. J. Chem., 14 (**2023**) 434-443.   [https://doi.org/10.48317/IMIST .PRSM/morjchem-v11i2.37722](https://doi.org/10.48317/IMIST%20.PRSM/morjchem-v11i2.37722)   1. Investigation on Tenofovir Removal from Water by Electro-Fenton Process: Optimization of the Mineralization using Box-Behnken Design Lys Carelle Motue Waffo, Jean Marie Dangwang Dikdim, Guy Bertrand Noumi, Joseph Marie Sieliechi, Aicha Guessous, Fouad Echerfaoui, Miloud El Karbane, **Ismail Warad**, Abdelkader Zarrouk, Ghizlan Kaichouh, [Biointerface Research in Applied Chemistry](https://biointerfaceresearch.com/), 13 (**2023**) 522.   <https://doi.org/10.33263/BRIAC136.522>   1. Novel antiproliferative inhibitors from salicylamide derivatives with dipeptide moieties using 3D-QSAR, molecular docking, molecular dynamic simulation and ADMET studies, Esslali Soukaina, Nabil Al-Zaqri, **Ismail Warad**, Hamza Ichou, Koubi Yassine, Farhate Guenoun, and Mohammed Bouachrine, Journal of Molecular Structure, 1282 (**2023**) 135219.   <https://www.sciencedirect.com/science/article/pii/S0022286023003162>   1. A combined experimental and theoretical approach to the elucidation of the corrosion inhibition property of 5-((4,5- dihydro-4-o-tolyltetrazol-1-yl)methyl)quinolin-8-ol for C22E steel in aggressive environment H. About, M. El Faydy, F. Benhibaa, Arej S Al-Gorair, B.A. Al Jahdaly, H. Zarrok, H. Ouddaa, B. Lakhrissi, **I. Warad**, M. Abdallahe, A. Zarrouk, Inorganic Chemistry Communications, 150 (**2023**) 110537.   <https://www.sciencedirect.com/science/article/pii/S1387700323001491>   1. Omeprazole's Inhibitive Activity on the Corrosion of the Al Alloy in 0.5 M H2SO4 Solution A. Belafhaili, M. El Hawary, A. Bellaouchou, A. Guenbour, **I. Warad**, Anal. Bioanal. Electrochem.,15 (**2023**) 118.   <https://www.doi.org/10.22034/abec.2023.702330>   1. L. Protection of C38 Steel in Acidic Solution by Eucalyptus Sidroxylon Essential Oil, Koursaoui, Y. Kerroum, M. Tabyaoui, A. Guenbour, A. Bellaouchou, A. Zarrouk, **I. Warad,** B. Satrani, M. Ghanmi, EM. Aouane, A. Chaouch “, Anal. Bioanal. Electrochem., 15 (**2023**) 198.   <https://www.doi.org/10.22034/abec.2023.703901>   1. Quinoxaline Derivatives as Newly Acid Corrosion Inhibitors for Mild Steel: Synthesis, Electrochemical, and Theoretical Investigations, A. Benallal, M. Rbaam, Z. Rouif, M. Galai, N. Errahmany, E. Berdimurodov, V. Mehmeti, A. Berisha, · S. Ibn Ahmed, **I. Warad,** Journal of Bio- and Tribo-Corrosion 9 (**2023**) 13.   <https://link.springer.com/article/10.1007/s40735-023-00750-z>   1. Synthesis, crystal structure, physicochemical of new (±)-2,7-dimethoxy-3-(4-metho-xyphenyl)-3-methylchroman-4-one, N. Al-Maharik, M. Daqqa, A.r AlObaid, A. Zarrouk, **I. Warad,** Journal of Molecular Structure, 1286 (**2023**) 135536.   <https://www.sciencedirect.com/science/article/pii/S0022286023006336>   1. Impact of Commercial Sugar as a Substrate in Single-Chamber Microbial Fuel Cells to Improve the Energy Production with Bioremediation of Metals, M. Omenesa Idris, N. Al-Zaqri, **I. Warad,** A. Hossain, N. Masud, M. Ali, International Journal of Chemical Engineering, 2023 (**2023**) 1234.   <https://www.hindawi.com/journals/ijce/2023/9741246/>   1. Optimization of the Electro-Fenton Process for the Elimination of Oxytetracycline Antibiotic from Water: Degradation/Mineralization Kinetics, M. Shueai Yahya, N. Beqqual, I. Haji, M. El Karbane, H. Chakchak, **I. Warad**, A. Zarrouk, Anal. Bioanal. Electrochem., 15 (**2023**) 251-263.   <https://www.doi.org/10.22034/abec.2023.704565>   1. Economical Way to Protect Mild Steel in Acidic Medium: Combined Experimental and Theoretical Studies Nabil Al-Zaqri, Abdulnasser Karami, Hamza Ichoub, Nadia Arroussed, **Ismail Warad**, Surface Engineering and Applied Electrochemistry, 59 (**2023**) 368.   <https://link.springer.com/article/10.3103/S1068375523030146>   1. Facile hydrothermal synthesis of BiVO4 nanomaterials for degradation of industrial waste, Muhammad Salim Mansha, Tahir Iqbal, Muhammad Farooq, Khalid Nadeem Riaz, Sumera Afsheen, Muhammad Shehzad Sultan, Nabil Al-Zaqri, **Ismail Warad**, Heliyon 9 (**2023**) e15978.   <https://www.cell.com/heliyon/pdf/S2405-8440(23)03185-7.pdf>   1. Theoretical calculation of the influence of internal acceptor on photovoltaic performances in triphenylamine-based dyes for dye-sensitized solar cells Abdelhamid Khadiri, **Ismail Warad**, Zaki S. Safi, Mohamed Ebn Touhami, Hassan Oudda, Abdelkader Zarrouk, Journal of Photochemistry & Photobiology, A: Chemistry 443 (**2023**) 114827.   <https://www.sciencedirect.com/science/article/pii/S1010603023002927?via%3Dihub>   1. Synthesis, characterization, E/Z-isomerization, DFT, optical and 1BNA docking of new Schiff base derived from naphthalene-2-sulfonohydrazide, A. Abu-Rayyan, M. Suleiman, A. Daraghmeh, A. Al Ali, A. Zarrouk, K. Kumara, A. Sawafta, **I. Warad,** Mor. J. Chemistry 11 (**2023**) 613   .<https://doi.org/10.48317/IMIST.PRSM/morjchem-v11i3.39715>   1. Synthesis and adsorption capacity of biochar derived from Tamarindus indica shell for the removal of heavy metal Rajakumar S., Hemavathi, El-marghany A. and **Warad I**, Global NEST Journal, 25 (**2023**) 73.   <https://doi.org/10.30955/gnj.004963>   1. Experimental and theoretical investigation to the mild steel’s corrosion inhibition using pyrazole pyrimidine derivative S. Echihi, N. Benzbiria, M. Beraich, M. Elfal, M. Elbelghiti M. Boudalia, A. Bellaouchou, A. Guenbour, E. Mabrouk, D. Chebabe, M. Tabyaoui, **I. Warad**, Chem. Data Coll. 46 (**2023**) 101049.   <https://www.sciencedirect.com/science/article/pii/S2405830023000605>   1. Theoretical and experimental studies of 1-dodecyl-3-phenylquinoxalin-2(1H)-one as sustainable corrosion inhibitor for carbon steel in acidic electrolyte, Fouad Benhiba, Mohcine Missioui, Selma Lamghafri, Rachid Hsissou, Abdelkbir Bellaouchou, Hassan Oudda, Abdellatif Lamhamdi, **Ismail Warad**, Youssef Ramli, Abdelkader Zarrouk, Coatings 13 (**2023**) 1109.   <https://www.mdpi.com/2079-6412/13/6/1109>   1. Modelling and Optimization of 1D Sinusoidal Plasmonic Grating Application in Solar Cell, Faiza Saeed, Tahir Iqbal, Nabil Al-Zaqri, **Ismail Warad**, Plasmonics 18 (**2023**) 1117.   <https://link.springer.com/article/10.1007/s11468-023-01836-7>   1. Valorization of Annona reticulata biochar by chitosan for the adsorption of azo dye from textile effluent Rajakumar S, Ramakrishnan.S, Monica Nandini G.K., El-marghany A., **Warad I.,** Global NEST Journal, 25 (**2023**) 109.   <https://journal.gnest.org/publication/gnest_04882>   1. Enhanced biosorption of hexavalent chromium ions from aqueous solution onto Ziziphus jujube seeds as ecofriendly biosorbent – equilibrium and kinetic studies, T. Hariharan R. Gokulan, N. Al-Zaqri, **I. Warad**, Desalination and Water Treatment, 295 (**2023**) 205.   <https://doi.org/110.5004/dwt.2023.29601>   1. K. Jrajri, M. El Faydy, F. Benhiba, W. Al Garadi, L. El Ghayati, N.K. Sebbar, E.M. Essassi, J. Saranya, **I. Warad,** A. Bellaouchou, A. Zarrouk, Some diazepinone analogs as corrosion inhibitors for carbon steel in a hydrochloric acid medium: An integrated theoretical and practical study, *Materials Today Communications* 36 (**2023**) 106673.   <https://doi.org/10.1016/j.mtcomm.2023.106673>   1. Combined Electro-Fenton and Biological Process for Treatment of Antidepressant Sertraline: Performance Enhancement and By-Products Monitoring, Loubna Rachidi, Aicha Guessous, Imane Haji, Miloud El Karbane, Hind Chakchak, Abdelaziz Zouhir, Abdellah Talidi, **Ismail Warad**, Abdelkader M Zarrouk, Ghizlan Kaichouh, *Analy. Bioanaly.l Electrochemistry,* 15 (**2023**) 458.   <https://www.abechem.com/article_705726.html>   1. (E)-1-((4-Fluorophenyl)diazenyl)naphthalen-2-ol as an innovative and efficient corrosion inhibitor for carbon steel in 1 M HCl solution: Electrochemical analysis coupled with electronic/atomicscale computational simulations, E.H. Akroujai,1 S. Chetioui, N. Benzbiria, A. Barrahi, A. Chraka, A. Djedouani, S. Chtita, S. Lazar, **I. Warad,** *Int. J. Corros. Scale Inhib., 12 (***2023**) 1102.   10.17675/2305-6894-2023-12-3-18   1. An Assessment of New Imidazol Derivatives and an Investigation of Their Corrosion-Reducing Characteristics for Carbon Steel in an HCl Acid Solution, Ahmed Fatah, Nadia Timoudan, Mohamed Rbaa, Fouad Benhiba, Rachid Hsissou, Zaki S. Safi, **I. Warad**, Abeer A. AlObaid, Basheer M. Al-Maswari, Amale Boutakiout, Hassan Zarrok, Brahim Lakhrissi, Abdelkabir Bellaouchou, Charafeddine Jama, Fouad Bentiss, and Abdelkader Zarrouk, Coatings 13 (**2023**) 1405.   <https://doi.org/10.3390/coatings13081405>   1. pH Mediated simple synthesis of AgVO3 nanomaterials for degradation of industrial waste Muhammad Salim Mansha, Tahir Iqbal, Muhammad Farooq, K. N. Riaz, Sumera Afsheen, Muhammad Sajjad, Nabil Al-Zaqri, **Ismail Warad,** [Optik](https://www.sciencedirect.com/journal/optik),290 (**2023**) 171285.   <https://doi.org/10.1016/j.ijleo.2023.171285>   1. Improved Efficiency of MoS2‑Au Multilayer Plasmonic‑Based Solar Cells: Far‑ and Near‑Field Analysis Tahir Iqbal, Sayyam Ahsan, Faiza Saeed, Muhammad Shehzad Sultan, Abeer A. AlObaid, **Ismail Warad**, *Plasmonics*, 18 (**2023**) 1255.   <https://doi.org/10.1007/s11468-023-01853-6>   1. Effect of TiN‑Based Nanostructured Coatings on the Biocompatibility of NiTi Non‑ferrous Metallic Alloy by Cathodic Cage Plasma Processing, Muhammad Yousaf, Tahir Iqbal, Sumera Afsheen, Khalid Nadeem Riaz, Nabil Al‑Zaqri, **Ismail Warad**, Hamad Ahmed, Journal of Inorganic and Organometallic Polymers and Materials 33 (**2023**) 1164.   <https://doi.org/10.1007/s10904-023-02568-1>   1. Effect of Mn(II) Coordination Complexes on Corrosion Inhibition for Mild Steel in 1 M HCl Medium: Experimental, SEM-EDS Studies, DFT and MC Calculations A. Radi, 1 A. Jmiai, 2 Y. Kerroum, 3 A. El-Asri, 2 M. Kaddouri, 1 M. El Massaoudi, S. Radi, 1 B. El Ibrahimi, 2 B. El Mahi, 1 I. Warad, 4 A. Aouniti, 1 and A. Zarrouk, *Anal. Bioanal. Electrochem.,* 15 (2023) 603.   <https://www.doi.org/10.22034/abec.2023.707322>   1. Adsorption of novel heterocyclic compounds of the purine derivatives as corrosion inhibitors over mild steel surface in acidic medium: Electrochemical, surface characterization and theoretical investigations, Moussa Ouakki, Khadija Dahmani, ZakiaAribou, Elhachmia Ech-chihbi, Mouhsine Galai, Nabil Al-Zaqri, **Ismail Warad**, [Inorganic Chemistry Communications](https://www.sciencedirect.com/journal/inorganic-chemistry-communications), 157 (**2023**) 111342. <https://www.sciencedirect.com/science/article/pii/S1387700323009541> 2. Electrochemical, surface and theoretical investigations of a new tri-tolyl imidazole designed for corrosion inhibition of carbon steel in normal hydrochloric acid medium K. Jrajri, F. Benhiba, M. Oubaaqa, Zaki S. Safi, A. Zaroual, M. El Moudane, **I. Warad,** N.A. Lozinskaya, A. Bellaouchou, A. Zarrouk, Inorganic Chemistry Communications, 157 (**2023**) 1234. <https://doi.org/10.1016/j.inoche.2023.111309> 3. Exploring the Adsorption and Corrosion Inhibition Properties of Indazoleas a Corrosion Inhibitor for Brass Alloy in HCl Medium: A Theoretical and Experimental Study Zakia Aribou, Moussa Ouakki, Nidal Khemmou, Sarra Sibous, Elhachmia Ech-chihbi, Otmane Kharbouch, Mouhsine Galai, Abdelaziz Souizi, Said Boukhris, Mohamed Ebn Touhami, Abeer A. AlObaid, **Ismail Warad,** Materials Today Comm. 37 (**2023**) 107061   <https://doi.org/10.1016/j.mtcomm.2023.107061>   1. The Study of a New Pyran Compound in Two Distinct Environments: 0.5 M H2SO4 and 1.0 M HCl As an Inhibitor and Combines Experimental Evaluations with Computational Analytics to Assess Its Performance M. Khattabi, F. Benhiba, S. Tabti, A. Djedouani, H. Zarrok, A. Boutakiout, R. Touzani, **I. Warad**, M. Ebn Touhami, H. Oudda, and A. Zarrouk, *Anal. Bioanal. Electrochem., 15 (2023) 739*   *https://www.doi.org/10.22034/abec.2023.708105*   1. The inhibitory effect of certain imidazole derivatives grafted on 8-hydroxyqinoline on carbon steel corrosion in acidic medium: experimental and computational approaches A. Elbarki, Z. Amrani, T. Laabaissi, M. El Faydy, L. Adlani,1 A. Fatah, F. Benhiba, M. Rbaa, **I. Warad**, B. Lakhrissi, H. Zarrok, A. Bellaouchou, B. Dikici, H. Oudda1 and A. Zarrouk, *Int. J. Corros. Scale Inhib., 12 (***2023**) 1292. <https://doi.org/10.17675/2305-6894-2023-12-3-27> 2. Perchlorate captured by activated carbon derived from dates seed through adsorption technique Adilakshmi A, Abeet A. Alobaid, **Warad I.** and Senthil Kumar M, Global NEST Journal, 25 (**2023**) 1.   https://doi.org/10.30955/gnj.005039   1. Electrochemical, surface analysis, computational and anticorrosive studies of novel naphthalene derivative on carbon steel surface E.H. Akroujai, S. Chetioui, N. Benzbiria, A. Barrahi, A. Chraka, A. Djedouani, S. Chtita, B. Dikici, **I. Warad**, A. Bellaouchou, M. Assouag1 and A. Zarrouk *Int. J. Corros. Scale Inhib., 12 (***2023**) 1441–1475   <https://dx.doi.org/10.17675/2305-6894-2023-12-4-5>   1. Impact of air pollutants on climate change and prediction of air quality index using machine learning,G. Ravindiran, S. Rajamanickam, K.Kanagarathinam, G.Hayde,Gorti Janardhan, Priya Arunkumar, Sivakumar Arunachalam, Abeer A. AlObaid, Ismail Warad, [Environmental Research](https://www.sciencedirect.com/journal/environmental-research), 239 (**2023**) 117354.   <https://doi.org/10.1016/j.envres.2023.117354>   1. An Approach Towards Low Energy Loss by End-capped Modification of A2–D–A1–D–A2-type Molecules for Tuning the Photovoltaic Properties of Organic Solar Cells Ramsha Ali, Sidra Nadeem, Rasheed Ahmad Khera, Abeer A. AlObaid, **Ismail Warad,** Mahmoud A. A. Ibrahim, and Muhammad Waqas, **J.** *Comput. Biophys. Chem. 19 (***2023)** 1–28.   https://doi.org/1: 10.1142/S2737416523420085   1. Development of Tellurium/Cerium bimetallic nanoparticles using biological method and their detection and degradation of keratin, M. Sindhu, Devi, A. Muthuvel, S. Srinivasan, Abeer. AlObaid, **Ismail Warad**, Basheer M. Al-Maswari, Inorganic Chemistry Communications, 158 (**2023**) 111532.   <https://www.sciencedirect.com/science/article/pii/S1387700323011449>   1. The concentration effect of HF on pitting corrosion behavior of 904 L SS in a phosphoric environment,H, Y. Kerroum, S. Aftimi, M. Nihorimbere, **I. Warad**, A. Bellaouchou, A. Zarrouq, [Inorganic Chemistry Communications](https://www.sciencedirect.com/journal/inorganic-chemistry-communications), 158 (**2023**) 111543.   <https://www.sciencedirect.com/science/article/pii/S1387700323011553>   1. Photocatalytic degradation of rhodamine B and methylene blue using novel Spinacia oleracea-based Ag nanoparticles: experimental and theoretical analysis Nabil Al-Zaqri', Arooj Majeed Dar, Tahir Iqbal, Sumera Afsheen, Maria Zafar, Arslan Masood, Hira Naseer, **Ismail Warad,** Eur. Phys. J. Plus 138 (**2023**) 958.   <https://doi.org/10.1140/epjp/s13360-023-04601-1>   1. Corrosion Mitigation of Carbon Steel using Pyrazole Derivative: Correlation of Gravimetric, Electrochemical, Surface Studies with Quantum Chemical Calculations, L. Adlani, N. Benzbiria, A. Titi, F. Benhiba, I. Warad, N. Timoudan, G. Kaichouh, A. Bellaouchou, R. Touzani, H. Zarrok, H. Oudda, and A. Zarrouk, A*nal. Bioanal. Electrochem. 15 (2023) 967.*   *https://www.doi.org/10.22034/abec.2023.709114*   1. Theoretical and experimental analysis of La doped CuO for their application an efficient photocatalyst Arslan Masood, Sumera Afsheen, Maria Ashraf, Khalid Nadeem Riaz, Ghulam Nabi, Muhammad Isa Khan, Furqan Ali, Nabil Al-Zaqri, **Ismail Warad**, Biomass Conversion & Biorefinery, 14 (**2023**) 18937.   <https://link.springer.com/article/10.1007/s13399-023-04056-5>   1. Investigation of Mg Doped ZnO Nanoparticles Decorated with Ag for Efficient Photocatalytic Degradation, Hira Naseer, Nabil Al-Zaqri, Tahir Iqbal, Muhammad Yousaf, Sumera Afsheen, Muhammad Shehzad Sultan, **Ismail Warad**, *Journal of Inorganic and Organometallic* *Polymers and Materials* 33 (**2023**) 2790.   <https://doi.org/10.1007/s10904-023-02722-9>   1. Hybrid bio‑activated sludge‑electro‑Fenton system for a sustainable removal of cefuroxime sodium antibiotic in aqueous medium: optimization, biodegradability improvement and mechanism, Imane Haji, Mariam Khachani, Loubna Rachidi, Brahim Kers, Hind Chakchak, Abdelkebir Bellaouchou, **Ismail Warad**, Aicha Guessous, Abderrahim E. L. Hourch, Abelkader Zarrouk, Nanotechnology for Environmental Engineering, 8 (**2023**) 1047.   <https://doi.org/10.1007/s41204-023-00339-4>   1. Corrosion Resistance of Two Newly Synthesized 8-Quinolinol-Benzimidazoles on Carbon Steel: An Experimental and Theoretical Investigation M. El Faydy, F. Benhiba, M. Alfakeer, Ameena M. Al-bonayan, N. Timoudan, **I. Warad**, B. Lakhrissi, M. Abdallah, and A. Zarrouk, Journal of Materials Engineering and Performance, xxx (**2023**) xxx.   <https://doi.org/10.1007/s11665-023-08919-w>   1. 4-phenyl-decahydro-1H-1,5-benzodiazepin-2-one as novel and effective corrosion inhibitor for carbon steel in 1M HCl solution: A combined experimental and empirical studies W. Al Garadi, K. Jrajri, M. El Faydy, F. Benhiba, L. El Ghayati, N.K. Sebbar, E.M. Essassi, **I. Warad**, A. Guenbour, A. Bellaouchou, C. Jama, A. Alsalme, A. Zarrouk, Colloids and Surfaces A: Physicochemical and Engineering Aspects 682 (**2023**) 1234.   <https://doi.org/10.1016/j.colsurfa.2023.132771>   1. Nickel-Aluminium Layered Double Hydroxide Catalysed One-Pot Synthesis of Thioxo-Dihydroquinazolinones in Green Solvents, Santosh Kumar Verma, Nabil Al-Zaqri, Rameshwari Verma, K. P. Rakesh, K. Pramoda, **Ismail Warad**, Abeer A. Alobaid & Kothanahally S. Sharath Kumar, [*Catalysis Letters*](https://link.springer.com/journal/10562), 154 (**2023**) 3035. <https://link.springer.com/article/10.1007/s10562-023-04497-7> |
| **2022** | 1. Atypical coupling method for the preparation of 1, 2-di (thiophen-2-yl) ethene-1, 2-diol compounds via a Cu(II) catalyst, **Ismail Warad**, Amjad M. Shraim, Anas Al-Ali, Kifah SM Salih, Abdelkader Zarrouk, and Yousef Hijji, U.S. Patent Application 17/566,248, filed June 30, 2022.   <https://patents.google.com/patent/US20220204487A1/en>   1. Comparative study of Pd-based electrocatalysts decorated on hybrid carbon supports towards methanol oxidation, Amar Al-Khawlani, Basheer M Al-Maswari, Weimin Chen, Ahmed Boshaala, Mohammad I Ahmad, Abdelkader Zarrouk, **Ismail Warad**, Nabil Al-Zaqri, Journal of King Saud University-Science, 34(5), 102118.   <https://www.sciencedirect.com/science/article/pii/S1018364722002993>   1. Effect of Potential on Electrodeposited Cu2O Thin Film onto Copper Substrate at Low Duration, K. Jrajri, M. Beraich, **I. Warad**, R. Touir, M. Ebn Touhami, A. Guenbour, A. Bellaouchou, A. M. Zarrouk, Analytical and Bioanalytical Electrochemistry 14, no. 6 (2022): 610-620.   <http://www.abechem.com/article_253083.html>   1. Experimental and theoretical investigations of two quinolin-8-ol derivatives as inhibitors for carbon steel in 1 M HCl solution M. El Faydy, F. Benhiba, **I. Warad**, H. About, S. Saoiabi, A. Guenbour, F. Bentiss, B. Lakhrissi, A. Zarrouk, Journal of Physics and Chemistry of Solids 165 (2022) 110699.   <https://www.sciencedirect.com/science/article/abs/pii/S0022369722002943>   1. Effect of alumina insertion on structural properties, thermal stability, and chemical durability of potassium calcium based-phosphate glasses, Y. Alaoui, M. Laourayed, A. Er-rafai, M. Hammi, M. El Moudane, M. Boudalia, Z. Sekkat, **I. Warad**, A. Guenbour, A. Bellaouchou, A. Zarrouk, Inorganic Chemistry Communications (2022): 109632.   <https://doi.org/10.1016/j.inoche.2022.109632>   1. Synthesis, Structural, Biocomputational Modeling and Antifungal Activity of Novel Armed pyrazoles, Abderrahim Titi, Rachid Touzani, Anna Moliterni, Taibi Ben Hadda, Mouslim Messali, Redouanae Benabbes, Malika Berredjem, Abdeslem Bouzina, Nabil Al-Zaqri, Mustapha Taleb, Abdelkader Zarrouk, **Ismail Warad**, Journal of Molecular Structure 1264 (2022): 133156.   <https://doi.org/10.1016/j.molstruc.2022.133156>   1. Bisquinoline analogs as corrosion inhibitors for carbon steel in acidic electrolyte: Experimental, DFT, and molecular dynamics simulation approaches, M El Faydy, F Benhiba, **I Warad**, S Saoiabi, Ahmed Alharbi, Ahmad A Alluhaybi, B Lakhrissi, M Abdallah, A Zarrouk, Journal of Molecular Structure (2022): 133389.   <https://doi.org/10.1016/j.molstruc.2022.133389>   1. New Green Anti-corrosion Inhibitor of Citrus Peels for Mild Steel in 1 M HCl: Experimental and Theoretical Approaches, A Najem, M Sabiha, M Laourayed, A Belfhaili, F Benhiba, M Boudalia, **I Warad**, A Bellaouchou, A Guenbour, Abdelkader Zarrouk, Chemistry Africa (2022): 1-18. <https://doi.org/10.1007/s42250-022-00366-9> 2. GC–MS-Based Metabolites Profiling, In Vitro Antioxidant, Anticancer, and Antimicrobial Properties of Different Solvent Extracts from the Botanical Parts of Micromeria fruticose, Mohammad Al-Nuri, Ibrahim M Abu-Reidah, Anwar A Alhajeh, Ghadeer Omar, Ghaleb Adwan, **Ismail Warad**, Processes 10, no. 5 (2022): 1016.   [**https://doi.org/10.3390/pr10051016**](https://doi.org/10.3390/pr10051016)   1. Multidimensional analysis for corrosion inhibition by new pyrazoles on mild steel in acidic environment: Experimental and computational approach, S El Arrouji, K Karrouchi, **I Warad**, A Berisha, K Ismaily Alaoui, Z Rais, S Radi, M Taleb, M Ansar, A Zarrouk, Chemical Data Collections (2022): 100885.   <https://doi.org/10.1016/j.cdc.2022.100885>   1. Investigation of the corrosion of stainless steel, copper and aluminium in sunflower biodiesel solution: Experimental and theoretical approaches, M El Hawary, F Benhiba, M Khachani, G Kaichouh, **I Warad**, A Guenbour, A Zarrouk, A Bellaouchou, Chemical Data Collections 40 (2022): 100870.   <https://doi.org/10.1016/j.cdc.2022.100870>   1. GC–MS Based Metabolites Profiling, In Vitro Antioxidant, Antibacterial, and Anti-Cancer Properties of Different Solvent Extracts from Leaves, Stems, Roots, and Flowers of, Ibrahim Abu-Reidah, Mohamed Al-Nuri, Anwar Afifi, Ghadeer Omar, Ghalib Adwan, **Ismail Warad**.   <https://www.preprints.org/manuscript/202204.0119/v1>   1. Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol β-keto-enol derivative, Said Tighadouinia, Othmane Robya, Salma Mortada, Zouhair Lakbaibic, Smaail Radi, Anas Al-Ali, My El Abbes Faouzi, Marilena Ferbinteanu, Yann Garcia, Nabil Al-Zaqri, Abdelkader Zarrouj, **Ismail Warad**, Journal of Molecular Structure, 1247 (2022) 131308.   <https://doi.org/10.1016/j.molstruc.2021.131308>   1. Corrosion Effectiveness of 5‑(4‑Phenylpiperazin‑1‑yl) methyl) quinolin‑8‑ol for Carbon Steel in 1.0 M HCl, M. Bouassiria, M. El Faydy, F. Benhiba, T. Laabaissi, H. Fakhry, S. Saoiabi, R. Touir, **I. Warad**, A. Guenbour, B. Lakhrissi, H. Oudda, A. Zarrouk, Journal of Bio- and Tribo-Corrosion, 8 (2022) 43.   <https://link.springer.com/article/10.1007/s40735-022-00641-9>   1. Development of New Pyrimidine Derivative Inhibitor for Mild Steel Corrosion in Acid Medium, F. Benhiba, R. Hsissou, K. Abderrahim, H. Serrar, Z. Rouifi, S. Boukhris, G. Kaichouh, A. Bellaouchou, A. Guenbour, H. Oudda, **I. Warad**, Journal of Bio- and Tribo-Corrosion, 8 (2022) 36. <https://link.springer.com/article/10.1007/s40735-022-00637-5> 2. Electrodeposition of Cu2O thin film onto copper substrate by linear sweep voltammetry at low duration: Effect of bath pH, Khalid Jrajri, Mustapha Beraich, **Ismail Warad**, Abdallah Guenbour, Abdelkabir Bellaouchou, Abdelkader Zarrouk, Biointerface Research in Applied Chemistry, 12 (2022) 7715.   <https://doi.org/10.33263/BRIAC126.77157724>   1. Green approach to corrosion inhibition of carbon steel by Fucus Spiralis extract in 1 M HCl medium, Moha Afrokh, Said Baroud, Younes Kerroum, Abdelhakim Hatimi, Saida Tahrouch, Issam Sadki, **Ismail Warad**, Abdallah Guenbour, Abdelkabir Bellaouchou, Mohamed Tabyaoui, Abdelkader Zarrouk, Biointerface Research in Applied Chemistry, 12 (2022) 7075.   [https://doi.org/10.33263/BRIAC125.70757091](https://doi.org/10.33263/BRIAC125.70757091%20)   1. Novel triphenyl imidazole based on 8 hydroxyquinoline as corrosion inhibitor for mild steel in molar hydrochloric acid: experimental and theoretical investigations, M. Oubaaqa, M. Rbaa, M. Ouakki, R. Idouhli, M. Maatallah, A. Jarid, **I. Warad**, Ashraf S. Abousalem, B. Lakhrissi, A. Zarrouk, M. Ebn Touhami, Journal of Applied Electrochemistry, 52 (2022) 413.   <https://link.springer.com/article/10.1007/s10800-021-01632-3>   1. Synthesis, Identifcation, Antibacterial Activity, ADME/T and 1BNA Docking Investigations of 8 Quinolinol Analogs Bearing Benzimidazole Moiety, M. El Faydy, N. Dahaieh, K. Ounine, B. Lakhrissi, **I. Warad**, A. Zarrouk, Arab. Journal for Science and Engineering, 45 (2022) 7898. [https://doi.org/10.1007/s13369-021-05749-7](https://doi.org/10.1007/s13369-021-05749-7%20) 2. Sofosbuvir adsorption onto activated carbon derived from argan shellresidue: Optimization, kinetic, thermodynamic and theoreticalapproaches H. Babas, M. Khachan, **I. Warad**, S. Ajebi, A. Guessous, A. Guenbour, Z. Safi, A. Berisha, A. Bellaouchou, Zarrouk Abdelkader, G. Kaichouh, Journal of Molecular Liquids 356 (2022) 119019.   <https://doi.org/10.1016/j.molliq.2022.119019>   1. Experimental and theoretical examinations of two quinolin-8-olpiperazine derivatives as organic corrosion inhibitors for C35E steel in hydrochloric acid M. El Faydy, F. Benhiba, N. Timoudan, B. Lakhrissi, **I. Warad**, S. Saoiabi, A. Guenbour, F. Bentiss, A. Zarrouk, Journal of Molecular Liquids, 354 (2022) 118900.   <https://doi.org/10.1016/j.molliq.2022.118900>   1. Isoxazoline Derivatives as Inhibitors for Mild Steel Corrosion in 1M H2SO4: Computational and Experimental Investigations, N. Anusuya, J. Saranya, F. Benhiba, **I. Warad**, A. Zarrouk, and S. Chitra, Journal of Materials Engineering and Performance (2022) 1-16 <https://link.springer.com/article/10.1007/s11665-022-06761-0> 2. Synthesis of a new triazoloquinoxaline derivative by azide-alkyne click chemistry: Experimental and Theoretical Characterization, Mohcine Missioui, Hassane Lgaz, Walid Guerrab, Han-seung Lee, **Ismail Warad**, Joel T. Mague, Ismat H. Ali, El Mokhtar Essassi and Youssef Raml, Journal of Molecular Structure 125 (2022) 132132   [https://doi.org/10.1016/j.molstruc.2021.132132](https://doi.org/10.1016/j.molstruc.2021.132132%20)   1. Moroccan, Mauritania, and Senegalese gum Arabic variants as green corrosion inhibitors for mild steel in HCl: Weight loss, Electrochemical, AFM and XPS studies, M. El Azzouzi, K. Azzaoui, **I. Warad**, B. Hammouti, S. Shityakov, R. Sabbahi, S. Saoiabi, M.H. Youssoufi, N. Akartasse, A. Lamhamdi, A. Zarrouk, Journal of Molecular Liquid, 347 (2022) 118354.   [https://doi.org/10.1016/j.molliq.2021.118354](https://doi.org/10.1016/j.molliq.2021.118354%20%20%20)   1. Appraisal of synthetic cationic Gemini surfactants as highly efficient inhibitors for carbon steel in the acidization of oil and gas wells: an experimental and computational, M Abdallah, MA Hegazy, H Ahmed, Arej S Al-Gorair, H Hawsawi, M Morad, F Benhiba, **I Warad**, A Zarrouk, RSC Advances 12, 27 (2022): 17050-17064.   <https://pubs.rsc.org/en/content/articlelanding/2022/RA/D2RA02603A>   1. Behavior of clay intercalated by Ca2+ ions on abrasion‑corrosion of Nicrofer 3127 alloy in polluted phosphoric acid medium S. Skal, A. Guenbour, A. Bellaouchou, H. Idrissi, **I. Warad**, Abdelkader Zarrouk, Ionics 28, 5 (2022): 2489-2500   <https://link.springer.com/article/10.1007/s11581-022-04514-6>   1. Experimental and theoretical investigations of two quinolin-8-ol derivatives as inhibitors for carbon steel in 1 M HCl solution M. El Faydy, F. Benhiba, **I. Warad**, H. About, S. Saoiabi, A. Guenbour, F. Bentiss, B. Lakhrissi, A. Zarrouk, Journal of Physics and Chemistry of Solids 165 (2022) 110699.   <https://doi.org/10.1016/j.jpcs.2022.110699>   1. Mitigation Effect Of Novel Bipyrazole Ligand And Its Copper Complex On The Corrosion Behavior Of Steel In HCl: Combined Experimental And Computational Studies, A. Radia, B. El Mahi, A. Aouniti, Mo. El Massoudi, S. Radi, M. Kaddouri, T. Chelfi, A. Jmiai, A. El Asrib, B. Hammoutia, **I. Warad**, A. Guenbour, A. Zarrouq, Chemical Physics Letters, 795 (2022) 139532.   <https://doi.org/10.1016/j.cplett.2022.139532>   1. Synthesis, characterization and magnetic properties of Mg2+ doped green pigment Cobalt aluminate nanoparticles A. Venkatesan, A. Muthuvel, V. Mohana, N. Mahendran, Nabil Al-Zaqri, Ahmed Boshaala, and **Ismail Warad**, J Mater Sci: Mater Electron, 33 (2022) 21246.   <https://doi.org/10.1007/s10854-022-08834-1>   1. Ultrasonic Clusterization Process to Prepare [(NNCO)6Co4Cl2] as a Novel Double-Open-Co4O6 Cubane Cluster: SXRD Interactions, DFT, Physicochemical, Thermal Behaviors, and Biomimicking of Catecholase Activity Abderrahim Titi, Rachid Touzani, Anna Moliterni, Carlotta Giacobbe, Francesco Baldassarre, Mustapha Taleb, Nabil Al-Zaqri, Abdelkader Zarrouk, and **Ismail Warad**, ACS Omega, 7 (2022) 32949   <https://pubs.acs.org/doi/pdf/10.1021/acsomega.1c07032>   1. Anti-corrosion performance of novel pyrazole derivative for carbon steel corrosion in 1M HCl: computational and experimental studies, G. Laadama, F. Benhibaa, M. El Faydyc, A. Titi, Arej S Al-Goraire, Mubark Alshareef, H. Hawsawig, R. Touzanid, **I. Warad,** A. Bellaouchou, A. Guenbour, M. Abdallahf, A. Zarrouk, Inorganic Chemistry Communications**, 145** (2022) 109963   <https://www.sciencedirect.com/science/article/pii/S1387700322007717>   1. A Cyanopyran Derivative for Preventing Corrosion of Pipeline Material Used in The Oil and Gas Industry J. Saranya, N. Anusuya, F. Benhiba, **I. Warad,** A. Zarrouk, Anal. Bioanal. Electrochem., 9 (2022) 818.   <http://www.abechem.com/article_255013_882890ad3cfa85cbdce0d64cb6a12fd7.pdf>   1. Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol β-keto-enol derivative, Said Tighadouinia, Othmane Robya, Salma Mortada, Zouhair Lakbaibic, Smaail Radi, Anas Al-Ali, My El Abbes Faouzi, Marilena Ferbinteanu, Yann Garcia, Nabil Al-Zaqri, Abdelkader Zarrouj, **Ismail Warad,** *Journal of Molecular Structure,* 1247 (2022) 131308.   [**https://www.sciencedirect.com/science/article/pii/S002228602101437X**](https://www.sciencedirect.com/science/article/pii/S002228602101437X)   1. Experimental, DFT studies and molecular dynamic simulation on the corrosion inhibition of carbon steel in 1 M HCl by two newly synthesized 8-hydroxyquinoline derivatives, H. Fakhry, M. El Faydy, F. Benhiba, M. Bouassiria, T. Laabaissi, M. Allali, R. Touir, H. Oudda, C. Jama, **I. Warad,** A. Alsalme, A. Zarrouk, Journal of the Indian Chemical Society, 12 (2022) 100701   <https://www.sciencedirect.com/science/article/pii/S0019452222003636>   1. 4-phenyl-decahydro-1H-1,5-benzodiazepin-2-one as novel and effective corrosion inhibitor for carbon steel in 1 M HCl solution: A combined experimental and empirical studies W Al Garadi, K Jrajri, M El Faydy, F Benhiba, L El Ghayati, NK Sebbar, EM Essassi, I Warad, A Guenbour, A Bellaouchou, C Jama, A Alsalme, A Zarrouk, [Journal of the Indian Chemical Society](https://www.sciencedirect.com/journal/journal-of-the-indian-chemical-society) 99 (2022) 100742   <https://www.sciencedirect.com/science/article/pii/S0019452222004046?via%3Dihub>   1. Adsorption and Corrosion Inhibition Performance of New Triazole Derivative for Mild Steel in HCl Solution: Experimental and Computational Investigations, Y. El Ouadi, M. Lamsayah, H. Bendaif, F. Benhiba, R. Touzani, I. Warad & A. Zarrouk, Surface Engineering and Applied Electrochemistry, 58 (2022) 509.   <https://link.springer.com/article/10.3103/S1068375522050040>   1. Synthesis, Identification, Antibacterial Activity, ADME/T and 1BNA-Docking Investigations of 8-Quinolinol Analogs Bearing a Benzimidazole Moiety, M. El Faydy, N. Dahaieh, K. Ounine, B. Lakhrissi, I. Warad, B. Tüzün & A. Zarrouk, Arabian Journal for Science and Engineering volume 47 (2022) 497–510   <https://link.springer.com/article/10.1007/s13369-021-05749-7> |
|  | 1. Crystal interaction, Hirshfeld surface analysis, and spectral analysis of new Dithiocarbazate Schiff bases derivative (LH) and its neutral cis-Cu(L)2 complex, Ahmed Boshaala, Ulrich Flörke, Bohari M Yamin, Younis O. Ben Amer, Ghaith S. H. Ghaith,Abdulla Ali Almughery, Abdelkader Zarrouk, **I. Warad,** Journal of Molecular Structure 1224 (2021) 129207.   <https://www.sciencedirect.com/science/article/pii/S0022286020315271>   1. Crystal structure, spectral, thermal and experimental/computational investigation of Anthracen-benzo[d]thiazol-2-amine new Schiff base derivative, [Yousef Hijji](https://www.sciencedirect.com/science/article/pii/S0022286020321372#!), Ellis Benjamin,Ray Butcher,Abdelkader Zarrouk, **I. Warad**, Journal of Molecular Structure, 1229 (2021) 129824.   <https://www.sciencedirect.com/science/article/pii/S0022286020321372>   1. Experimental and ﬁrst-principles study of a new hydrazine derivative for DSSC applications , Ismail Badran, Said Tighadouini, Smaail Radi, Abdelkader Zarrouk, I. Warad, Journal of Molecular Structure, 1229 (2021) 129799.   <https://www.sciencedirect.com/science/article/pii/S0022286020321128?via%3Dihub>   1. Synthesis, physicochemical, thermal, XDR/HSA-interactions of Trans-(1E,2E)-Benzil-O,O-dimethylsulfonyl dioxime: Cis-trans isomerization, DFT and TD-DFT investigation Nabil Al-Zaqri, Ali Alsalme, Fahad Alharthi, Afnan Al-Taleb, Ahmed M. Boshaala, Ahmed Chetouni, Abdelkader Zarrouk, **I. Warad,** Journal of King Saud University – Science, 33 (2021) 101298.   <https://www.sciencedirect.com/science/article/pii/S1018364720304110?via%3Dihub>   1. Synthesis, characterization, crystal structure, Hirshfeld surface analysis, antioxidant properties and DFT calculations of a novel pyrazole derivative: Ethyl 1-(2,4-dimethylphenyl)-3-methyl-5-phenyl-1H-pyrazole-4-carboxylate, S. Naveen, Karthik Kumara, A. Dileep Kumar, K. Ajay Kumar, **I. Warad,** Journal of Molecular Structure, 1226 (2021) 129350.   <https://www.sciencedirect.com/science/article/pii/S0022286020316689?via%3Dihub>   1. A newly synthesized quinoline derivative as corrosion inhibitor for mild steel in molar acid medium:Characterization (SEM/EDS), experimental and theoretical approach H. Fakhry, M. El Faydy, F. Benhiba, T. Laabaissi, M. Bouassiria, M. Allali, B. Lakhrissi, H. Oudda1, A. Guenbour, **I. Warad,** A. Zarrouk, *Colloids and Surfaces A: Physicochemical and Engineering Aspects,* 610 (2021) 125746.   <https://www.sciencedirect.com/science/article/pii/S092777572031339X?via%3Dihub>   1. Synthesis and anti-corrosion characteristics of new 8-quinolinol analogs with amide-substituted on C35E steel in acidic medium: Experimental and computational ways, M. El Faydy, F. Benhiba, Y. Kerroum, A. Guenbour, F. Bentissd, **I. Warad,** B. Lakhrissi, A. Zarrouk, *Journal of Molecular Liquids* 325 (2021) 115224.   <https://www.sciencedirect.com/science/article/pii/S0167732220374663>   1. Corrosion inhibition effect of 5-(4-methylpiperazine)-methylquinoline-8-ol on carbon steel in molar acid medium, M. Bouassiria, T. Laabaissi, F. Benhiba, M. El Faydy, H. Fakhry, H. Oudda,M. Assouag, R. Touir, A. Guenbour, B. Lakhrissi, **I. Warad,** A. Zarrouk, *Inorganic Chemistry Communications,* 113 (2021) 108366.   <https://www.sciencedirect.com/science/article/pii/S1387700320309564?via%3Dihub>   1. Structure, conformational dynamics, quantum mechanical studies and potential biological activity analysis of multiple sclerosis medicine ozanimod Nabil Al-Zaqri, T. Pooventhiran, D. Jagadeeswara Rao, **I. Warad**, Journal of Molecular Structure, 1227 (2021) 129685.   <https://www.sciencedirect.com/science/article/pii/S0022286020319980?via%3Dihub>   1. Optimization of Roasting Conditions on the Bioactive Compounds and their Antioxidant Power from *Opuntia fiscus-Indica* Seeds using Response Surface Methodology (RSM), Chakir El Guezzane, Hamza El Moudden, Hicham Harhar, **I. Warad,** Abdelkabir Bellaouchou, Abdallah Guenbour, Abdelkader Zarrouk, Mohamed Tabyaoui, [Biointerface Research in Applied Chemistry](https://biointerfaceresearch.com/), 11 (2021) 10510.   <https://doi.org/10.33263/BRIAC113.1051010532>   1. Chemical Composition and Inhibition Effect of Eucalyptus Botryoides on the Corrosion of C38 Steel in Hydrochloric Acid Solution Loubna Koursaoui, Younes Kerroum, Mohamed Tabyaoui, Abdallah Guenbour, Abdelkabir Bellaouchou, Badr Satrani, Mohamed Ghanmi, **I. Warad,** Abdelaziz Chaouch, Abdelkader Zarrouk, Biointerface Research in Applied Chemistry, 11 (2021) 10119.   <https://biointerfaceresearch.com/wp-content/uploads/2020/10/20695837113.1011910130.pdf>   1. Electrochemical and theoretical considerations for interfacial adsorption of novel long chain acid pyrazole for mild steel conservation in 1 M HCl medium Y. ElOuadi, M. Lamsayah, H.Bendaif, F. Benhiba, R.Touzani, **I. Warad,** Chemical Data Collections, 31 (2021) 100638.   <https://www.sciencedirect.com/science/article/pii/S2405830020303426>   1. Bio-active corrosion inhibitor based on 8-hydroxyquinolinegrafted- Alginate: Experimental and computational approaches, Meriem Fardioui, Mohamed Rbaa, Fouad Benhiba, Mouhsine Galai, Taoufiq Guedira, Brahim Lakhrissi, **I. Warad,** Abdelkader Zarrouk, *Journal of Molecular Liquids*, 323 (2021) 114615.   <https://www.sciencedirect.com/science/article/pii/S0167732220339660?via%3Dihub>   1. Green synthesis of novel carbohydrate polymer chitosan oligosaccharide grafted on D-Glucose derivative as bio-based corrosion inhibitor M. Rbaa, F. Benhiba, R. Hssisou, Y. Lakhrissi1, B. Lakhrissi1, M. Ebn Touhami, **I. Warad,** Journal of Molecular Liquids, 322 (2021) 1145492.   <https://www.sciencedirect.com/science/article/pii/S0167732220345189?via%3Dihub>   1. Cu(II) coordination polymer bearing diazenyl-benzoic ligand: Synthesis, physico-chemical and XRD/HSA-interactions, Souheyla Chetioui, Amel Djedouani, Zineb Fellahi, Jean-Pierre Djukic, Christian G. Bochet, Abdelkader Zarrouk, **I. Warad**, Journal of Molecular Structure, 1229 (2021) 129604.   <https://www.sciencedirect.com/science/article/pii/S0022286020319189?via%3Dihub>   1. Synthesis, structure, quantum computational and biological studies of novel thiophene derivatives, B. Pramodh, K.N. Chethan Prathap, M.K. Hema, **I. Warad**, N.K. Lokanath, Journal of Molecular Structure, 1229 (2021) 129587.   <https://www.sciencedirect.com/science/article/pii/S0022286020319013>   1. Synthesis, spectral characterization, crystal structure and theoretical investigation of (E)-3-(4-bromothiophen-2-yl)-1-(5-bromothiophen-2-yl)prop-2-en-1-one, B. Pramodh, P. Naresh, S. Naveen, N.K. Lokanath, S. Ganguly, J. Panda, S. Murugesan, A.V. Raghu, **I. Warad**, *Chemical Data Collections,* 31 (2021) 10058.   <https://www.sciencedirect.com/science/article/pii/S2405830020302925?via%3Dihub> XRD/HSA-interactions, Hirshfeld analysis, HOMO/LUMO and MEP of new N'-(di(pyridin-2-yl) methylene DFT)benzohydrazide, I. Warad, Mor. Journal Chem. 9 (2021) 60.<https://doi.org/10.48317/IMIST.PRSM/morjchem-v9i1.24349>One-pot microwave-assisted synthesis of water-soluble pyran-2,4,5-triol glucose amine Schiff base derivative: XRD/HSA-interactions, crystal structure, spectral, thermal, and A DFT/TD-DFT, Yousef Hijji, Rajeesha Rajan, Hamdi Ben yahia, Said Mansour, Abdelkader Zarrouk, I. Warad, *Crystals,* 11 (2021) 117. <https://www.mdpi.com/2073-4352/11/2/117>   1. Liquid hemilabile trans/cis-isomerism in [(P∩OO)2RuCl2(N∩N)], solid states XRD/HSA-interaction, C–H⸱⸱⸱Cl-Ru(II) supramolecular synthon, solvatochromism, thermal and A DFT/TD-DFT computation, **I. Warad,** Journal of Molecular Liquids, 328 (2021) 11582.   <https://www.sciencedirect.com/science/article/pii/S0167732221002087>   1. Design, structural, spectral, thermal, HSA, Solvatochromism and DNA-binding of two [Cu(phen)(triene)]Br2 complexes: Aqua experimental and DFT/TD-DFT investigation, **I. Warad,** Muheeb Fuqha, Salim F. Haddad, Firas F. Awwadi, Nabil Al-Zaqri, Abdelkader Zarrouk, *Journal of Molecular Structure,* 1231 (2021) 129983.   <https://www.sciencedirect.com/science/article/pii/S0022286021001149>   1. Equilibrium and kinetic studies for removal of antiviral sofosbuvir from aqueous solution by adsorption on expanded perlite: Experimental, modelling and optimization H. Babas, G. Kaichouh, M. Khachani1, M. El Karbane, A. Chakir, A. Guenbour, A. Bellaouchou1, **I. Warad,** A. Zarrouk, Surfaces and Interfaces, 23 (2021) 100962.   <https://www.sciencedirect.com/science/article/pii/S2468023021000390>   1. Anti-corrosion performance of pyran-2-one derivatives for mild steel in acidic medium: Electrochemical and theoretical study, A. El Hattak1, S. Izzaouihda, Z. Rouifi, F. Benhiba, S. Tabti, A. Djedouani, N. Komiha, H. Abou El Makarim, R. Touzani, H. Oudda, **I. Warad,** A. Zarrouk, Chemical Data Collections, 32 (2021) 100655.   <https://www.sciencedirect.com/science/article/pii/S2405830021000100>   1. Synthesis, characterization, reaction mechanism prediction and biological study of Mono, Bis and Tetrakis Pyrazole derivatives against Fusarium oxysporum f. sp. Albedinis with Conceptual DFT and Ligand-protein docking studies Yassine Kaddouri, Farid Abrigach, Sabir Ouahhoud, Redouane Benabbes, Mohamed El Kodadi, Ali Alsalme, Nabil Al-Zaqri, **I. Warad**, *Bioorganic Chemistry,* 110 (2021) 104696   <https://www.sciencedirect.com/science/article/pii/S0045206821000729?via%3Dihub>   1. XRD/HSA, noncovalent interactions and influence of solvent polarity on spectral properties of dithiocarbazate schiff base and its cis-Cu(II) complex: Experimental and theoretical studies, Ahmed Boshaala, Kifah S. M. Sali, Younis O. Ben Ame, Ghaith S. H. Ghait,Abdulla Ali Almughery, Abdelkader Zarrouk, **I. Warad,** *Journal of Molecular Liquid*, 330 (2021) 115551.   <https://www.sciencedirect.com/science/article/pii/S0167732221002774?via%3Dihub>   1. Experimental and empirical assessment of two new 8-hydroxyquinoline analogs as effective corrosion inhibitor for C22E steel in 1 M HCl, H. About, M. El Faydy, F. Benhiba, Y. Kerroum, G. Kaichouh, H. Oudda, A. Guenbour , B. Lakhrissi, **I. Warad,** A. Zarrouk, *Journal of Molecular Liquid*, 325 (2021) 114644.   <https://www.sciencedirect.com/science/article/pii/S0167732220347097>   1. Synthesis, physicochemical, chromotropism, fluorescence, thermal and selective catalytic oxidation, Kifah S. M. Salih, Amjad M. Shraim, Soaad R. Al-Mhini, Ranim E. Al-Soufi, **I. Warad**, Emergent Materials, 14 (2021) 55.   <https://link.springer.com/article/10.1007%2Fs42247-021-00183-9>   1. Anticorrosion and adsorption performance of expired antibacterial drugs on Sabic iron corrosion in HCl solution: Chemical, electrochemical and Theoretical Approach, M. Abdallah, A. Al Bahir, H. M. Altass, A. Fawzy, N. El Guesmi, Arej S Al-Gorair, F. Benhiba**, I. Warad,** *Journal of Molecular Liquid*, 330 (2021) 115702.   <https://www.sciencedirect.com/science/article/pii/S016773222100427X>   1. The Effect of the Moroccan Salvadora Persica Extract on the Corrosion Behavior of the Ni–Cr Non‑precious Dental Alloy in Artificial, Saliva K. Mouflih, K. El Mouaden, M. Boudalia, A. Bellaouchou, M. Tabyaoui, A. Guenbour**, I. Warad,** A. Zarrouk, Journal of Bio- and Tribo-Corrosion, 7 (2021) 61.   <https://doi.org/10.1007/s40735-021-00495-7>   1. Synthesis and XRD of Novel Ni4(l3-O)4 Twist Cubane Cluster Using Three NNO Mixed Ligands: Hirshfeld, Spectral, Thermal and OxidationProperties, Abderrahim Titi, Hiroki Oshio, Rachid Touzani, Messali Mouslim, Abdelkader Zarrouk, Belkheir Hammouti, Nabil Al-Zaqri, Ali Alsalme, **I. Warad**, Journal of Cluster Science, 32 (2021) 227.   <https://link.springer.com/article/10.1007/s10876-020-01780-0>   1. Experimental, Density Functional Theory, and Dynamic Molecular Studies of Imidazopyridine Derivatives as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid, R. Salima, A. Nahlé, F. El-Hajjaji , E. Ech-chihbi, F. Benhiba , F. El Kalaid, N. Benchat, H. Oudda, A. Guenbour, M. Taleb, **I. Warad,** and A. Zarrouk, Surface Engineering and Applied Electrochemistry, 57 (2021) 233.   <https://www.springer.com/journal/11987>   1. 8-hydroxyquinoline grafted triazole derivatives as corrosion inhibitors for carbon steel in H2SO4 solution: Electrochemical and theoretical studies, Z. Rouifi. F. Benhiba, M. El Faydy, T. Laabaissi, H. Oudda, B. Lakhrissi, A. Guenbour**, I. Warad**, Ionics, 27 (2021) 2267   <https://doi.org/10.1007/s11581-021-03974-6>   1. One-pot ultrasonic synthesis of [Cl(NN’)Cu(µCl)2Cu(NN’)Cl] dimer, DFT, XRD/HSA-interactions, spectral, Solvatochromism and TG/DTG/DSC analysis, **I. Warad**, *Journal of Molecular Structure*, 1236 (2021) 130371.   <https://www.sciencedirect.com/science/article/pii/S0022286021005044>   1. A new mixed pyrazole-diamine/Ni(II) complex, Crystal structure, physicochemical, thermal and antibacterial investigation Author links open overlay panel, [Abderrahim Titi,](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!) [Saud M.Almutairi,](https://www.sciencedirect.com/science/article/pii/S002228602100435X" \l "!) [Rachid Touzani,](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!) [Mouslim Messali,](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!) [Monique Tillard,](https://www.sciencedirect.com/science/article/pii/S002228602100435X" \l "!) [Belkheir Hammouti, Mohamed ElKodadi,](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!) [Driss Eddike](https://www.sciencedirect.com/science/article/pii/S002228602100435X" \l "!), [Abdelkader Zarrouk](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!), [**I. Warad**](https://www.sciencedirect.com/science/article/pii/S002228602100435X#!)**,** *Journal of Molecular Structure,* 1236 (2021) 130304.   <https://www.sciencedirect.com/science/article/pii/S002228602100435X>   1. Thermogravimetric Kinetics Study of Scrap Tires Pyrolysis using Silica Embedded with NiO and/or MgO Nanocatalysts, Ihab Alsurakji, Amjad El-Qanni, Amer M. El-Hamouz, **I. Warad,** Yazan Odeh, *J. Energy Resour. Technol 143 (2021)* 092302*.*   <https://asmedigitalcollection.asme.org/energyresources/article-abstract/doi/10.1115/1.4050814/1106722>   1. The Ani-Angiogenesis Compunds, Yasser Hussein Issa Mohammed, Nabil Ahmed Qassim Al-Zeqri, Ali Mohammed Alsalme, Fahed Ahmed Ali Alharthi, **I. Warad** and others. US patent, Application No.: 16/838,520, 2021.   <https://patents.justia.com/patent/10954200>   1. Crystal structure, MEP/DFT/XRD, thione⇔thiol tautomerization, thermal, docking, and optical/TD-DFT studies of (E)-methyl 2-(1-phenylethylidene)-hydrazinecarbodithioate ligand, Ahmed Boshaala, Musa A. Said, Eman A. Assirey, Zainab S. Alborki, Abeer A. AlObaid, Abdelkader Zarrouk, **I. Warad**, *Journal of Molecular Structure,* 1238 (2021) 13046   <https://www.sciencedirect.com/science/article/pii/S0022286021005949?via%3Dihub>   1. Experimental, Density Functional Theory, and Dynamic Molecular Studies of Imidazopyridine Derivatives as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid, R. Salima, A. Nahlé, F. El-Hajjaji, E. Ech-chihbia, F. Benhiba , F. El Kalaid, N. Benchatd, H. Oudda, A. Guenboure, M. Taleb, **I. Warad,** *Surface Engineering and Applied Electrochemistry,* 57 (2021) 233.   <https://www.springer.com/journal/11987>   1. One-pot synthesis, thermal and isoconversional kinetic dehydration of H2O bridge-molecule from [CuBr(phen)2]H2O.Br crystal *via* KAS and FWO models: XRD-structural, DFT/HSA-computation and spectral analysis, **I. Warad,** Malak Daqqa, Firas F. Awwadi, Mousa Al-Noaimi, Abdelkader Zarrouk, Nabil Al-Zaqri, *Journal of King Saud University–Science,* 33 (2021) 101464.   <https://www.sciencedirect.com/science/article/pii/S1018364721001257>   1. π‑ Extended Boron Difluoride [NՈNBF2] Complex, Crystal Structure, Liquid NMR, Spectral, XRD/HSA Interactions: A DFT and TD‑DFT Study Abdulrahman A. Alsimaree, Nawaf. I. Alsenani, Omar Mutlaq Alatawi, Abeer A. AlObaid, Julian Gary Knight, Mouslim Messali, Abdelkader Zarrouk, **Ismail Warad,** *Crystals* 11 )2021(  606 .   <https://doi.org/10.3390/cryst11060606>   1. Synthesis, NMR, DFT, GRD, MEP, FMO’s analysis and comparison of E and Z-isomer of N'-((4-bromothiophen-2-yl)methylene)naphthalene-2-sulfono-hydrazide ligand S. Amereih, A. Daraghmeh, M. Al-Nuri, M. Suleiman, A. Zarrouk, **I. Warad,** *Mor. J. Chem.* 9 (2021) 232-240.   <https://revues.imist.ma/index.php/morjchem/article/view/22051>   1. Insight into the corrosion inhibition property of two new soluble and non-toxic xanthenbenzoate derivatives [N.Arrousse, R.Salim, F.Benhiba, E.H.Mabrouk, A.Abdelaoui, F. El Hajjaji,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221013349#!) **I. Warad**, [A.Zarrouk, M.Taleb,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221013349#!)  *Journal of Molecular Liquid*, 338 (2021) 116610. <https://www.sciencedirect.com/science/article/abs/pii/S0167732221013349> 2. DFT/electronic scale, MD simulation and evaluation of 6-methyl-2-(p-tolyl)-1,4-dihydroquinoxaline as a potential corrosion inhibition F. benhiba,R.Hsissou,[Z.Benzikri,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) [S.Echihi,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) [J.El-Blilak,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) [S.Boukhris,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) [A.Bellaouchou,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) A.Guenbour, [H. Oudda,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) [I.Warad,](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!) N.K.Sebbar, [A. Zarrouk](https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630#!), *Journal of Molecular Liquid*, 335 (2021) 116539   <https://www.sciencedirect.com/science/article/abs/pii/S0167732221012630>   1. Chalcone oxime derivatives as new inhibitors corrosion of carbon steel in 1 M HCl solution, [A.Thoume](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [D. Benmessaoud Left](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [A.Elmakssoudi](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [F. Benhiba](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [A. Zarrouk, N. Benzbiria, **I. Warad**, M. Dakir](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [M. Azzi](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), [M. Zertoubi](https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223#!), *Journal of Molecular Liquid*, 337 (2021) 116398.   <https://www.sciencedirect.com/science/article/abs/pii/S0167732221011223>   1. Chemical, electrochemical, quantum, and surface analysis evaluation on the inhibition performance of novel imidazo[4,5-b] pyridine derivatives against mild steel corrosion. A. Saady, Z. Rais, F. Benhiba, R. Salim, K. Ismaily Alaoui, N. Arrousse, F. Elhajjaji, M. Taleb, K. Jarmoni, Y. Kandri Rodi, **I. Warad,** A. Zarrouk, *Corrosion Science*, 189 (2021) 109621.   <https://0-www.sciencedirect.com.mylibrary.qu.edu.qa/science/article/pii/S0010938X21003875>   1. One minute microwave synthesis of [O2N-Ph-CH2-Py=N(Me)2]+[Cl]- ionic liquid: XRD/HSA-interactions, physicochemical, optical, thermal and A DFT/TD-DFT analysis, Yousef Hijji, Rajeesha Rajan, Haw-Li Su, Hani Tabba, Abdelkader Zarrouk, **Ismail Warad***, Journal of Molecular Liquid*, 1339 (2021) 116737.   <https://doi.org/10.1016/j.molliq.2021.116737>   1. Corrosion inhibition performance of 4-(prop-2- ynyl)-[1,4]-benzothiazin-3-one against mild steel in 1 M HCl solution: Experimental and theoretical studies, F. Benhiba, N.K. Sebbar, H. Bourazmi, M.E. Belghiti, R. Hsissou, T. Hokelek, A. Bellaouchou, A. Guenbour, **I. Warad,** H. Oudda, A. Zarrouk, E.M. Essassi, [*International Journal of Hydrogen Energy*](https://www.sciencedirect.com/science/journal/03603199)*,* 46 (2021) 25800.   <https://doi.org/10.1016/j.ijhydene.2021.05.091>   1. Aminothiazolyl coumarin derivatives as efectual inhibitors to alleviate corrosion on mild steel in 0.5 M H2SO4 D. Mahalakshmi J. Saranya, ·F. Benhiba, **I. Warad**, A. Zarrouk, Journal of Applied Electrochemistry, 51 (2021) 1323.   <https://doi.org/10.1007/s10800-021-01588-4>   1. Corrosion inhibition behavior of chalcone oxime derivatives on carbon steel in 0.5 M H2SO4 A. Thoume · F. Benhiba, A. Elmakssoudi,  ·D. Benmessaoud Left, N. Benzbiria, **I. Warad**, M. Dakir, M. Azzi,· M. Zertoubi, A. Zarrouk, Journal of Applied Electrochemistry 51 (2021) 1755. [**https://link.springer.com/article/10.1007/s10800-021-01612-7**](https://link.springer.com/article/10.1007/s10800-021-01612-7) 2. Toxicological and Pharmacological Studies of a Crystal Structure Derivative of 8‑Hydroxyquinoline, Mohamed Rbaa, M. Mequedade, I. Berkiks, Y. Lakhrissi, J. Mague, A. El Hessni, T. B. Hadda**, I. Warad,** B. Lakhrissi & Abdelkader Zarrouk,Arabian Journal for Science and Engineering, xx (2021) xx.   [**https://link.springer.com/article/10.1007%2Fs13369-021-06007-6**](https://link.springer.com/article/10.1007%2Fs13369-021-06007-6)   1. Adsorption of a cationic dye (Safranin) by artificial cationic resins Amberlite IRC-50: Equilibrium, kinetic and thermodynamic study, J. Bensalah, A. Habsaoui, O. Dagdag, A. Lebkiri1, Ismi, E.H. Rifi**, I. Warad**, A. Zarrouk, Chemical Data Collections, 35 (2021) 100756.   <https://www.sciencedirect.com/science/article/abs/pii/S2405830021001105?via%3Dihub>   1. Optimization and modeling of the electro-Fenton process for treatment of sertraline hydrochloride: Mineralization efficiency, energy cost and biodegradability enhancement, Loubna Rachidi, Ghizlan Kaichouh, Mariam Khachani, Abdelkader Zarrouk, Miloud El Karbane, Hind Chakchak, **Ismail Warad,** Abderahim EL Hourch, Kacem El Kacemi, Aicha Guessous, Chemical Data Collections, 35 (2021) 100764.   [**https://www.sciencedirect.com/science/article/pii/S240583002100118X**](https://www.sciencedirect.com/science/article/pii/S240583002100118X)   1. Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol β-keto-enol derivative, Said Tighadouinia, Othmane Robya, Salma Mortada, Zouhair Lakbaibic, Smaail Radi, Anas Al-Ali, My El Abbes Faouzi, Marilena Ferbinteanu, Yann Garcia, Nabil Al-Zaqri, Abdelkader Zarrouj, **Ismail Warad,** *Journal of Molecular Structure,* 1247 (2021) 131308.   [**https://www.sciencedirect.com/science/article/pii/S002228602101437X**](https://www.sciencedirect.com/science/article/pii/S002228602101437X)   1. Insight into the corrosion inhibition of new bis-quinolin-8-ols derivatives as highly efficient inhibitors for C35E steel in 0.5 M H2SO4 M. El Faydy, H. About, **I. Warad,** Y. Kerroum, A. Berisha, F. Podvorica, F. Bentiss, G. Kaichouh, B. Lakhrissi, A. Zarrouk, *Journal of Molecular Liquid*, 342 (2021) 117333. [**https://www.sciencedirect.com/science/article/pii/S0167732221020572**](https://www.sciencedirect.com/science/article/pii/S0167732221020572) 2. Insight into the corrosion inhibition of new benzodiazepine derivatives as highly efficient inhibitors for mild steel in 1 M HCl: Experimental and theoretical study Author links open overlay panel, T. Laabaissi, M. Rbaa, F. Benhiba, Z. Rouifi, U. Pramod Kumar, F. Bentiss, H. Oudda, B. Lakhrissi, **I. Warad,** A. Zarrouk, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 624 (2021) 127428.   [**https://www.sciencedirect.com/science/article/pii/S0927775721012978**](https://www.sciencedirect.com/science/article/pii/S0927775721012978)   1. Construction of Bi2S3/TiO2/MoS2 S-Scheme Heterostructure with a Switchable Charge Migration Pathway for Selective CO2 Reduction, Khaled Alkanad, Abdo Hezam, Qasem Ahmed Drmosh, Sujay Shekar Ganganakatte Chandrashekar, Abeer A. AlObaid, **Ismail Warad,** Mohammed Abdullah Bajiri, and Lokanath Neratur Krishnappagowda, *Solar RRL (*2021) 2100501.   [**https://onlinelibrary.wiley.com/doi/10.1002/solr.202100501**](https://onlinelibrary.wiley.com/doi/10.1002/solr.202100501)   1. Hemilability in neutral RuCl2 (η1-P∩O)2(N∩N) complexes: Physicochemical, trans/cis-isomerization, thermal and A DFT/TD-DFT Abeer A. AlObaid, Nabil Al-Zaqri, Tahani I. Al-Muhimeed, Meshari M.H. Aljohani, Abdelkader Zarrouk, Hassane Lgaz, **Ismail Warad**, *Journal of Molecular Liquid*, 341 (2021) 117339.   [**https://www.sciencedirect.com/science/article/pii/S0167732221020638**](https://www.sciencedirect.com/science/article/pii/S0167732221020638)   1. Experimental and Theoretical Approaches for Interfacial Adsorption of Novel Long Chain Benzimidazolium Derivatives for Mild Steel Protection in 1 M HCl Medium L. El Ouasif, M. Laourayed, F. Benhiba, M. Boudalia, M. El Ghoul, R. Achour, A. Bellaouchou, A. Guenbour, **I. Warad**, *Anal. Bioanal. Electrochem.,* 13 (2021) 12.   <http://www.abechem.com/article_245916.html>   1. Synthesis of Novel Aqua ƞ4-NNNO/Cu(II) Complexes as Rapid and Selective Oxidative Catalysts for o-Catechol: Fluorescence, Spectral, Chromotropism and Thermal Analyses, Amjad M. Shraim, Kifah S. M. Salih, Ranim E. Al-Soufi, Soaad R. Al-Mhini, M. I. Ahmad, **I. Warad**,*Crystals* 11 (2021) 1072.. [**https://www.mdpi.com/2073-4352/11/9/1072**](https://www.mdpi.com/2073-4352/11/9/1072) 2. Diazo-pyrazole analogues as photosensitizers in dye sensitised solar cells: tuning for a better photovoltaic efficiency using a new modelling strategy using experimental and computational data, Athira M. John, Renjith Thomas, Sreeja P. Balakrishnan, Nabil Al-Zaqri, Ali Alsalme and **Ismail Warad,**  Z. Phys. Chem.. 235 (2021) 1227–1245   <https://www.degruyter.com/document/doi/10.1515/zpch-2020-1722/html>   1. Investigation on Tin Electrodeposition from Sulphuric Acid Medium, S. Bakkali, M. Cherkaoui, **I. Warad**, A. Zarrouk, Anal. Bioanal. Electrochem. 13 (2021) 160.   <http://www.abechem.com/article_246470.html>   1. Spectroscopic Insight into Tetrahedrally Distorted Square Planar Copper(II) Complex: XRD/HSA, Physicochemical, DFT, and Thermal Investigations Ahmed Boshaala, Abrahem F. Abrahem, Abdulla Ali Almughery, Nabil Al-Zaqri , Abdelkader Zarrouk Hassane Lgaz and **Ismail Warad**, Crystals 11 (2021) 1179.   <https://www.mdpi.com/2073-4352/11/10/1179>   1. Diazenehydrazine tautomerization in MeOH, single proton intra-migration, XRD/HSA-interactions, spectral, optical and DFT/TD-DFT of new hydrazine Souheyla Chetioui, Amel Djedouani, Assia Milli, Jean-Pierre Djukic, Christian Bochet, Ali Alsalme, Abdelkader Zarrouk, Ismail Warad, **HAL Archive, 2021.**   <https://hal.archives-ouvertes.fr/hal-03353754>   1. Synthesis, physicochemical, optical, thermal and TD-DFT of (E)-N'-((9-ethyl-9H-carbazol-3-yl)-methylene)-4-methyl-benzene-sulfonohydrazide (ECMMBSH): Naked eye and colorimetric Cu2+ ion chemosensor, T. I. Al-Muhimeed, A. A. AlObaid,C. Jama, A. Zarrouk, **I. Warad**, *Journal of King Saud University–Science,* 33 (2021) 101633.   <https://www.sciencedirect.com/science/article/pii/S1018364721002950>   1. One Pot Ultrasonic Assisted {[Ni(tptz)Cl(H2O)2][Ni(tptz)(H2O)3]}-3Cl.5H2O Complex Formation Using Triazine Ligand, XRD/HSA-Interactions, and Spectral and Thermal Investigation Abeer A. AlObaid, Ahmed Boshaala, Younis O. Ben Amer, Abrahem F. Abrahem, Nabil Al-Zaqri, Mohammed Suleiman, Abdelkader Zarrouk, Nawaf Al-Maharik, Hussien A. Khamees and **Ismail Warad**, Crystals 11 (2021) 1474.   <https://www.mdpi.com/2073-4352/11/12/1474/htm>   1. Experimental, Quantum Chemical and Monte Carlo Simulation Studies on the Corrosion Inhibition of Mild Steel by Three New Schiff Base Derivatives A. Nahlé, M. El Azzouzi, A. Aouniti, F. Abrigach, A. Djedouani, F. Benhiba, R. Touzani, **I. Warad,** I. B. Obot, A. Zarrouk and B. Hammouti, *Portugaliae Electrochimica Acta* 39 (2021) 293.   <http://www.peacta.org/articles_upload/v39n5a01_293_321.pdf> |
| **2020** | 1. Synthesis of novel Cl2Co4L6 clusterusing 1-hydroxymethyl-3,5-dimethylpyrazole (LH) ligand: Crystal structure, spectral, thermal, Hirschfeld surface analysis and catalytic oxidation evaluation, Abderrahim Titi, Takuya Shiga, Hiroki Oshio, Rachid Touzani, Belkheir Hammouti, Messali Mouslim, **Ismail Warad,** *Journal of Molecular Structure* 1199 (2020) 126995.   <https://www.sciencedirect.com/science/article/abs/pii/S0022286019310944>   1. Synthetic, spectroscopic characterization, empirical and theoretical investigations on the corrosion inhibition characteristics of mild steel in molar hydrochloric acid by three novel 8-hydroxyquinoline derivatives, M. Rbaa, M. Galai, S. Abousalem, B. Lakhrissi, M. Ebn Touhami, **I. Warad,** A. Zarrouk, Ionics 26 (2020) 503.   <https://doi.org/10.1007/s11581-019-03160-9>   1. Synthesis, Characterization and Corrosion Inhibition Potential of Newly Benzimidazole Derivatives: Combining Theoretical and Experimental Study, Z Rouifi, M Rbaa, Ashraf S Abousalem, F Benhiba, T Laabaissi, H Oudda, B Lakhrissi, A Guenbour, **I Warad,** Surfaces and Interfaces, 18 (2020) 100442.   <https://www.sciencedirect.com/science/article/pii/S2468023019305279>   1. Synthesis and amide imidic prototropic tautomerization in thiophene-2-carbohydrazide: XRD, DFT/HSA-computation, DNA-docking, TG and isoconversional kinetics via FWO and KAS models, Nabil Al-Zaqri, Tamer Khatib, Ali Alsalme, Fahad A Alharthi, Abdelkader Zarrouk, **Ismail Warad**, RSC Advances 10 (2020), 2037.   <https://pubs.rsc.org/en/content/articlehtml/2020/ra/c9ra09831c>   1. Cystoseira Gibraltarica Extract as an Environmentally Sustainable Corrosion Inhibitor for Carbon steel in 1.0 M HCl Medium, Moha Afrokh, Said Baroud, Mohamed Rbaa, Issam Sadki, Abdelhakim Hatimi, Saida Tahrouch, Mohamed Tabyaoui, Abdellah Guenbour, **Ismail Warad,** Abdelkader Zarrouk, Anal. Bioanal. Electrochem., 12 (2020) 193.   <http://www.abechem.com/article_38689.html>   1. Tetrahydropyrimido-Triazepine derivatives as anti-corrosion additives for acid corrosion: Chemical, electrochemical, surface and theoretical studies, F. Benhiba, H. Serrar, R. Hsissou, A. Guenbourb, A. Bellaouchou, M. Tabyaoui, S. Boukhris, H. Oudda, **I. Warad**, A. Zarrouk, Chemical Physics Letters 743 (2020) 137181.   <https://www.sciencedirect.com/science/article/pii/S0009261420300968>   1. XRD/DFT/HSA-interactions in Cu(II)Cl/phen/ß-diketonato complex: Physicochemical, solvatochromism, thermal and DNA-binding analysis M.K. Hema, **Ismail Warad,** C.S. Karthik, Abdelkader Zarrouk, Karthik Kumara, K.J. Pampa, P. Mallu, N.K. Lokanath, Journal of Molecular Structure 1210 (2020) 128000.   <https://www.sciencedirect.com/science/article/pii/S0022286020303252>   1. Synthesis and XRD of Novel Ni4(l3-O)4 Twist Cubane Cluster UsingThree NNO Mixed Ligands: Hirshfeld, Spectral, Thermal and OxidationProperties, Abderrahim Titi, Hiroki Oshio, Rachid Touzani, Messali Mouslim, Abdelkader Zarrouk, Belkheir Hammouti, Nabil Al-Zaqri, Ali Alsalme, **Ismail Warad**, Journal of Cluster Science, 26 (2020) 1.   <https://link.springer.com/article/10.1007/s10876-020-01780-0>   1. Synthesis, antibacterial study and corrosion inhibition potential of newly synthesis oxathiolan and triazole derivatives of 8-hydroxyquinoline: Experimental and theoretical approach, M. Rbaa, Asharf S. Abousalem, Z. Rouific, R. Benkaddour, P. Dohare, M. Lakhrissi, **I. Warad,** B. Lakhrissi, A. Zarrouk, Surfaces and Interfaces 19 (2020) 100468.   <https://www.sciencedirect.com/science/article/pii/S2468023019306686>   1. Theoretical investigation using DFT of quinoxaline derivatives for electronic and photovoltaic effects, A. El Assyry, M. Lamsayah, **I. Warad,** R. Touzani, F. Bentiss, A. Zarrouk, Heliyon 6 (2020) 3620.   <https://www.sciencedirect.com/science/article/pii/S2405844020304655>   1. Preparation and anti-corrosion activity of novel 8-hydroxyquinoline derivative for carbon steel corrosion in HCl molar: Computational and experimental analyses, Z. Rouifi, M. Rbaa, F. Benhiba, T. Laabaissi, H. Oudda, B. Lakhrissi, A. Guenbour, **I. Warad,** A. Zarrouk, Journal of Molecular Liquids 307 (2020) 112923.   <https://www.sciencedirect.com/science/article/pii/S0167732219358969?via%3Dihub>,   1. 8-Hydroxyquinoline based chitosan derived carbohydrate polymer as biodegradable and sustainable acid corrosion inhibitor for mild steel: Experimental and computational analyses, M. Rbaa, M. Fardioui, Chandrabhan Verma, Ashraf S. Abousalem, M. Galai, E.E. Ebenso, T. Guedira, B. Lakhrissi, **I. Warad,** A. Zarrouk, *International Journal of Biological Macromolecules,* 155(2020) 645.   <https://doi.org/10.1016/j.ijbiomac.2020.03.200>   1. In-vitro antimicrobial activities of organic solvent extracts obtained from Dipcadiviride (L.) Moench, Dunia Al Farraj, Mohamed Ragab Abdel Gawwad, Adeel Mehmood, Ali Alsalme, Noura M Darwish, Nabil Al-Zaqri, **Ismail Warad,** Journal of King Saud University-Science, 32 (2020) 1965.<https://www.sciencedirect.com/science/article/pii/S1018364720300094> 2. In-vitro antibacterial and antifungal properties of the organic solvent extract of Argemone mexicana L.Shahla Andleeb, Ali Alsalme, Nabil Al-Zaqri, **Ismail Warad,** Jawaher Alkahtani, Syed Mohsin Bukhari, [Journal of King Saud University - Science](https://www.sciencedirect.com/science/journal/10183647), 32 (2020) 2053.   <https://www.sciencedirect.com/science/article/pii/S101836472030046X?via%3Dihub>   1. New Epoxy sugar based glucose derivatives as eco friendly corrosion inhibitors for the carbon steel in 1.0 M HCl: Experimental andtheoretical investigations, M. Rbaa, P. Dohare, A. Berisha, O. Dagdag, L. Lakhrissi, M. Galai, B. Lakhrissi, M. Ebn Touhami, **I. Warad,** Journal of Alloys and Compounds 833 (2020) 154949.   <https://www.sciencedirect.com/science/article/pii/S0925838820313128>   1. New Epoxy sugar based glucose derivatives as eco friendly corrosion inhibitors for the carbon steel in 1.0 M HCl: Experimental andtheoretical investigations, M. Rbaa, P. Dohare, A. Berisha, O. Dagdag, L. Lakhrissi, M. Galai, B. Lakhrissi, M. Ebn Touhami, **I. Warad**, A. Zarrouk, Journal of Molecular Structure 1213 (2020) 128155.   <https://www.sciencedirect.com/science/article/pii/S0022286020304804>   1. Synthesis, crystal structure, spectroscopic and hirshfeld surface analysis, NCI-RDG, DFT computations and antibacterial activity of new asymmetrical azines Chaabane Chiter, Abdelaziz Bouchama, Toma Nardjes Mouas,Hamza Allal, Messaoud, Yahiaoui, **Ismail Warad,** Abdelkader Zarrouk, Amel Djedouani, Journal of Molecular Structure 1217 (2020) 128735.   <https://www.sciencedirect.com/science/article/pii/S0022286020307018>   1. Combined electronic/atomic level computational, surface (SEM/EDS), chemical and electrochemical studies of the mild steel surface by quinoxalines derivatives anti-corrosion properties in 1 mol⋅L-1 HCl solution F. Benhiba, Z. Benzekri, A. Guenbour, M. Tabyaoui, A. Bellaouchou, S. Boukhris, H. Oudda, **I.Warad,** A. Zarrouk, Chinese Journal of Chemical Engineering 28 (2020) 1436.   <https://www.sciencedirect.com/science/article/pii/S1004954120300951>   1. Experimental and computational investigations on the anti-corrosive and ad-sorption behavior of 7-N,N’-dialkyaminomethyl-8-Hydroxyquinolines onC40E steel surface in acidic mediumMohamed El Faydy, Fouad Benhiba, Hafida About, Younes Kerroum,Abdellah Guenbour, Brahim Lakhrissi, **Ismail Warad,** Chandrabhan Verma,El-Sayed M. Sherif, Eno E. Ebenso, Abdelkader Zarrouk , Journal of Colloid and Interface Science 576 (2020) 330.   <https://www.sciencedirect.com/science/article/pii/S0021979720306032>   1. Inermolecular interaction in [C6H10N3]2[CoCl4] complex: Synthesis, XRD/HSA relation, spectral and Catecholase catalytic analysis, Abderrahim Titi, **Ismail Warad**, Monique Tillard, Rachid Touzani, Mouslim Messali, Mohamed El Kodadi, Driss Eddike, Abdelkader Zarrouk, Journal of Molecular Structure 1217 (2020) 128422.   <https://www.sciencedirect.com/science/article/pii/S002228602030747X>   1. Synthesis and Spectral Identification of Three SchiBases with a 2-(Piperazin-1-yl)-N-(thiophen-2-ylmethylene)ethanamine Moiety Acting as Novel Pancreatic Lipase Inhibitors: Thermal, DFT, Antioxidant, Antibacterial, and Molecular Docking Investigations, **Ismail Warad**, Oraib Ali, Anas Al Ali, Nidal Amin Jaradat, Fatima Hussein, Lubna Abdallah, Nabil Al-Zaqri, Ali Alsalme and Fahad A. Alharthi, Molecules 25 (2020**)** 2253.   <https://www.mdpi.com/1420-3049/25/9/2253>   1. Coupling of chemical, electrochemical and theoretical approach to study the corrosion inhibition of mild steel by new quinoxaline compounds in 1 M HCl, T. Laabaissi, F. Benhibaو M. Missioui, Z. Rouifi, M. Rbaa, H. Oudda, Y. Ramli, A. Guenbour, **I. Warad**, A. Zarrouk , Heliyon 6 (2020) e03939. <https://www.sciencedirect.com/science/article/pii/S2405844020307842> 2. Synthesis and XRD of neutral NiL complex using unsymmetrical ONNO tetradentate schiff base: Hirschfeld, spectral, DFT and thermal analysis, Musa A. Said, Hamza A. Qasem, Seraj O. Alzahrani, Abdelkader Zarrouk  & **Ismail Warad**, Journal of Coordenation Chemistry 73 (2020) 1. <https://www.tandfonline.com/doi/full/10.1080/00958972.2020.1762870> 3. Nitro substituent effect on the electronic behavior and inhibitory performance of two quinoxaline derivatives in relation to the corrosion of mild steel in 1M HCl F. Benhiba, R. Hsissou, Z. Benzekri, M.E. Belghiti, A. Lamhamdi, A. Bellaouchou, A. Guenbour, S. Boukhris, H. Oudda**, I. Warad,** A. Zarrouk, Journal of Molecular Liquids, 312 (2020) 114082. <https://www.sciencedirect.com/science/article/pii/S0167732220314331> 4. 5,5-diphenyl-2-thioxoimidazolidin-4-one methodological mechanism to corrosion inhibition for mild steel dissolution in HCl: DFTs, Molecular Dynamics and experimental procedures, R. Nabah, F. Benhiba, T. Laabaissi, H. Zarrok, M. Cherkaoui, H. Oudda, Y. Ramli, **I. Warad**, A. Zarrouk, Surface Review and Letters, 20 (2020) 1.   <https://www.worldscientific.com/doi/abs/10.1142/S0218625X20500055>   1. Potential of Trihalomethanes formation in the Domestic water sources of Jericho area / West Bank, S. Khayat, A. Marei, S. Amirieh, **I. Warad,** Mor. J. Chem. 8 (2020) 540-551.   <https://revues.imist.ma/index.php?journal=morjchem&page=article&op=view&path%5B%5D=19537>   1. Synthesis,Characterization and Evaluation of Biological Activity of Sulfonylhydrazide-Schiff Base (E)- N’-(2,5- dimethoxybenzalidene) naphthalene-2- sulfonohydrazide, Sameer Amereih, Abd Daraghmeh, **Ismail Warad**, Mohammed Al-Nuri, Palestine Technical University Research Journal, 2020, 8, 21.   <https://journal.ptuk.edu.ps/pdfs/amereih_revised_version_ptukj.19_02_2020131908.pdf>   1. Simple preparation and characterization of novel 8-Hydroxyquinoline derivatives as effective acid corrosion inhibitor for mild steel: Experimental and theoretical studies, M. Rbaa1, M. Ouakki, M. Galai, A. Berisha, B. Lakhrissi, C. Jama, **I. Warad**, A. Zarrouk, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 602 (2020) 125094.   <https://www.sciencedirect.com/science/article/pii/S0927775720306877?via%3Dihub>   1. Synthesis of V-shaped Schiff base ligand of type (N1,N2)-N1,N2-bis(pyridin-2-yl-methylene)-ethane-1,2-diamine, DFT/XRD/HAS analysis, **I. Warad**, Mor. J. Chem. 8 (2020) 233.   <https://revues.imist.ma/index.php?journal=morjchem&page=article&op=view&path%5B%5D=20565>   1. Computational Simulation of the Adsorption Behavior of Benzimidazolone Derivatives as Inhibitors for Ordinary Steel Corrosion in HCl 1M, Abdeslam El Assyry, M Hamed Touil, Fouad Benhiba, Bouziane Benali, Hassan Raba, Brahim Lakhrissi, **Ismail Warad**, Fouad Bentiss, and Abdelkader Zarrouk, Anal. Bioanal. Electrochem. 12 (2020) 580-606.   <http://www.abechem.com/article_39948.html>   1. New N‑Heterocyclic Compounds based on 8‑Hydroxyquinoline as Efficient Corrosion Inhibition for Mild Steel in HCl Solution: Experimental and Theoretical Assessments, M. Rbaa, Ashraf S. Abousalem, M. Galai, H. Lgaz, B. Lakhrissi, **I. Warad,** Arabian Journal for Science and Engineering, 15 (2020) 123   [*https://link.springer.com/article/10.1007/s13369-020-04667-4*](https://link.springer.com/article/10.1007/s13369-020-04667-4)   1. The inhibitory effect of two 5-alkylthio-8-hydroxyquinoline salts on steel C22E in a molar electrolyte of hydrochloric acid: Experimental and theoretical studies M. El Faydy , H. About , F. Benhiba , B. Lakhrissi , A. Guenbour , F. Bentiss , **I. Warad** , E.E. Ebenso , A. Zarrouk, *Surfaces and Interfaces* 20 (2020) 100575.   [*https://www.sciencedirect.com/science/article/pii/S2468023020300298?via%3Dihub*](https://www.sciencedirect.com/science/article/pii/S2468023020300298?via%3Dihub)   1. Synthesis, physicochemical, DFT, thermal and DNA-binding analysis of new pentadentate N3S2 Schiff base ligand and their [CuN3S2]+2 complexes, **Ismail Warad**, Hadeel Suboh, Nabil Al-Zaqri, Ali Alsalme, Fahad A. Alharthi, Meshari M. Aljohani, Abdelkader Zarrouk, ASC Advances,10 (2020) 21806.   <https://pubs.rsc.org/en/Content/ArticleLanding/2020/RA/D0RA04323K#!divAbstract>   1. Chemical, electrochemical and theoretical studies of 3-methyl-5,50 -diphenylimidazolidine-2,4-dione as corrosion inhibitor for mild steel in HCl solution A. Elbarki, W. Guerrab, T. Laabaissi, F. Benhiba, Z. Rouifi, H. Oudda, A. Guenbour, R. Touir , **I. Warad** , Y. Ramli, A. Zarrouk, Chemical Data Collections, 28 (2020) 100454.   <https://www.sciencedirect.com/science/article/pii/S2405830020301634?via%3Dihub>   1. Crystal structure and spectral of new hydrazine-pyran-dione derivative: DFT enol↔hydrazone tautomerization *via* zwitterionic intermediate, Hirshfeld analysis and optical activity studies, Abdenour Guerraoui, Amel Djedouani, Erwann Jeanneau, Abdecharif Boumaza, Ali Alsalme, Abdelkader Zarrouk, Kifah S. M. Salih, **Ismail Warad,** Journal of Molecular Structure, 1220 (2020), 128728   <https://www.sciencedirect.com/science/article/pii/S002228602031053X>   1. Computational, MD simulation, SEM/EDX and experimental studies for understanding adsorption of benzimidazole derivatives as corrosion inhibitors in 1.0 M HCl solution, E. Ech-chihbi, A. Nahlé, R. Salim, F. Benhiba, A. Moussaif, F. El-Hajjaji, H. Oudda1, A. Guenbour, M. Taleb, **I. Warad,** A. Zarrouk, *Journal of Alloys and Compounds* 844 (2020) 155842   <https://www.sciencedirect.com/science/article/pii/S0925838820322064>   1. Synthesis of novel Cubane [Ni4(O∩O)4(OCH3)4(OOH)4] cluster: XRD/HSA-interactions, spectral, DNA-binding, dockingand subsequent thermolysis to NiO nanocrystals M.K. Hema, C.S. Karthik, N.K. Lokanath, P. Mallu, Abdelkader Zarrouk, Kifah S.M. Salih, **Ismail Warad,** *Journal of Molecular Liquids* 315 (2020) 113756. [*https://www.sciencedirect.com/science/article/pii/S0167732220331251?via%3Dihub*](https://www.sciencedirect.com/science/article/pii/S0167732220331251?via%3Dihub) 2. Synthesis and characterization of novel Cu (II) and Zn (II) complexes of 5-{[(2-Hydroxyethyl) sulfanyl] methyl}-8-hydroxyquinoline as effective acid corrosion inhibitor by Experimental and Computational testings, M. Rbaa, F. Benhiba, M. Galai, Ashraf S. Abousalem, M. Ouakki, Chin-Hung Lai, B. Lakhrissi, C. Jama, **I. Warad,** M. Ebn Touhami, A. Zarrouk, *Chemical Physics Letters,* 754 (2020) 13771.   <https://www.sciencedirect.com/science/article/pii/S0009261420306862>   1. New pyrazole derivatives as effective corrosion inhibitors on steelelectrolyte interface in 1 M HCl: Electrochemical, surface morphological (SEM) and computational analysis, Siham El Arrouji, Khalid Karrouchib, Avni Berisha, Khadija Ismaily Alaoui, **Ismail Warad**, Zakia Rais, Smaail Radi, Mustapha Taleb, M’hammed Ansar, Abdelkader Zarrouk, *Colloids and Surfaces A*, 604 (2020) 125325.   <https://www.sciencedirect.com/science/article/pii/S0927775720309183?via%3Dihub>   1. An experimental-coupled empirical investigation on the corrosion inhibitory action of 7 -alkyl - 8 -Hydroxyquinolines on C35E steel in HCl electrolyte M. El Faydy, F. Benhiba, A. Berisha, Y. Kerroum , C. Jama , B. Lakhrissi , A. Guenbour , **I. Warad,** A. Zarrouk, Journal of Molecular Liquids, 317 (2020) 113973.   <https://www.sciencedirect.com/science/article/pii/S0167732220324508>   1. ELIDAN Certificate: BEHAVIOR is the key to save places from Covid-19, CRUZ-RODRIGUEZ L., RODOLFO BAREA, ZAYAS TAMAYO A.M., HOCHWIMMER B., BEN HADDA T., ALMALKI F. A., LAMBERT BROWN D, PELAEZ FIGUEROA Y., SANCHEZ BATISTA L. and **WARAD I**. Journal of Bioscience & Biomedical Engineering, 11 (2020) 1   <https://unisciencepub.com/storage/2020/08/ELIDAN-certificate-BEHAVIOR-is-the-key-to-save-places-from-Covid19.pdf>   1. Structural and physico-chemical evaluation of melatonin and its solution-state excited properties, with emphasis on its binding with novel Coronavirus proteins Nabil Al-Zaqri, T. Pooventhiran, Ali Alsalme, **Ismail Warad,** Athira M. John, Renjith Thomas, Journal of Molecular Liquids, 318 (2020) 114082.   <https://www.sciencedirect.com/science/article/pii/S0167732220337302?via%3Dihub>   1. Crystal interaction, Hirshfeld surface analysis, and spectral analysis of new Dithiocarbazate Schiff bases derivative (LH) and its neutral cis-Cu(L)2 complex, Ahmed Boshaala, Ulrich Flörke, Bohari M Yamin, Younis O. Ben Amer, Ghaith S. H. Ghaith,Abdulla Ali Almughery, Abdelkader Zarrouk, **Ismail Warad,** Journal of Molecular Structure 1224 (2021) 129207.   <https://www.sciencedirect.com/science/article/pii/S0022286020315271>   1. Crystal interaction, XRD powder, and Hirshfeld surface analysis of S-benzyl-β-N-(1-(4-chlorophenyl) ethylidene) dithiocarbazate Schiff base, Ahmed M. Boshaala, Khalid A. AlFarha, Huda Muftah Sheppaek, Wjdan Omar Algezzeri, Abdelkader Zarrouk, **Ismail Warad**, Mor. J. Chem. 8 (2020) 1048-1055.   <https://doi.org/10.48317/IMIST.PRSM/morjchem-v8i4.22217>   1. One-pot microwave-assisted green synthesis of neutral *trans*-Cl2Cu(NNOH)2: XRD/HSA-interactions, antifungal and antibacterial evaluations, Abderrahim Titi, **Ismail Warad,** Saud M. Almutairi, Mohammed Fettouhi, Mouslim Messali, Ateyatallah Aljuhani, Rachid Touzani, Abdelkader Zarrouk, *Inorg. Chem. Comm.* 122 (2020) 108292.   <https://www.sciencedirect.com/science/article/pii/S1387700320308820?via%3Dihub>   1. **New heterocyclic compounds: synthesis, antioxidant activity and computational insights of nano-antioxidant as ascorbate peroxidase inhibitor by various cyclodextrin as drug delivery systems, Ismail Warad, Current Drug Delivery,** 18 (2020) 28.   <https://doi.org/10.2174/1567201817999201001205627>   1. Mono-alkylated ligands based on pyrazole and triazole derivatives tested against Fusarium oxysporum f. sp. albedinis: Synthesis, characterization, DFT and phytase binding site identification using Blind docking/virtual screening for potent Fophy inhibitors. Yassine Kaddouri, Farid Abrigach, Saber Ouahhoud, Redouane Benabbes, Mohamed El Kodadi, Ali Alsalme, Nabil Al-Zaqri, **Ismail Warad,**  Front. Chem. 8 (2020) 559262.   <https://www.frontiersin.org/articles/10.3389/fchem.2020.559262/full>   1. A newly synthesized quinoline derivative as corrosion inhibitor for mild steel in molar acid medium:Characterization (SEM/EDS), experimental and theoretical approach H. Fakhry, M. El Faydy, F. Benhiba, T. Laabaissi, M. Bouassiria, M. Allali, B. Lakhrissi, H. Oudda1, A. Guenbour, **I. Warad,** A. Zarrouk, *Colloids and Surfaces A: Physicochemical and Engineering Aspects,* 610 (2020) 125746.   <https://www.sciencedirect.com/science/article/pii/S092777572031339X?via%3Dihub>   1. Chemical, Electrochemical, and Surface Study on Microbial Attack, of CoCrMo Dental Alloy by *Streptococcus mutans,* K. Mouflih, A. Marda, M. Boudalia, A. Bellaouchou1 · M. Tabyaoui, A. Guenbour, L. Bahij, F. Zauoi, **I. Warad,** *Journal of Bio- and Tribo-Corrosion* 7 (2021) 2.   <https://doi.org/10.1007/s40735-020-00435-x>   1. Effect of substitution on corrosion inhibition properties of three Imidazole derivatives on mild steel in 1M HCl, M. Bouklah, H. Elmsellem, Krim, G. Serdaroğlu, B. Hammouti, A. Elidrissi, S. Kaya, **I. Warad,** *Arabian Journal of Chemical and Environmental Researches*, 07 (2020) 126–143.   <http://www.mocedes.org/ajcer/volume7/AJCER-07-Bouklah-2020.pdf>   1. Synthesis, physicochemical, thermal and XRD/HSA of mixed [Cu(bipy)(dipn)](X)2 complexes: DNA-binding and molecular docking evaluation, Nabil Al-Zaqri, Kifah S. M. Salih, Firas F. Awwadi, Ali Alsalme, Fahad A. Alharthi,Amjad Alsyahi, Anas Al Ali, Abdelkader Zarrouk, Meshari Aljohani, **Ismail Warad,** *Journal of coordination Chemistry*, 54 (2020) 188.   <https://doi.org/10.1080/00958972.2020.1841898>   1. Synthesis of novel tetra(µ3-methoxo) bridged with Cu(II)-O-Cd(II) double-open-cubane cluster: XRD/HSA-interactions, thermal, spectral and oxidation aspects, Abderrahim Titi, Saud M. Almutairi, Mouslim Messali, Rachid Touzani, Mohammed Fettouhi, Abdelkader Zarrouk, Belkheir Hammouti, Nabil Al-Zaqri, Ali Alsalme, Fahad A. Alharthi, Amjad Alsyahi**,** Ismail Warad, Int. J. Mol. Sci, 21 (2020) 8787.   <https://www.mdpi.com/1422-0067/21/22/8787/htm>   1. Diazo-pyrazole analogues as photosensitizers in dye sensitised solar cells: tuning for a better photovoltaic efficiency using a new modelling strategy using experimental and computational data, Athira M. John, Renjith Thomas, Sreeja P. Balakrishnan, Nabil Al-Zaqri, Ali Alsalme and **Ismail Warad,** Z. Phys. Chem. 2020.   <https://www.degruyter.com/view/journals/zpch/ahead-of-print/article-10.1515-zpch-2020-1722/article-10.1515-zpch-2020-1722.xml?rskey=TVZKsR&result=1>   1. Method for synthesizing 1-(naphthalen-2-ylsulfonyl)-3-(thiophen-2-yl) diaziridine, Ismail Warad, Abd Daraghmeh, Mohammed Al-Nuri, Abdelkader Zarrouk, Mohammad Mousa, Anas Al-Ali, Amjad M. Shraim, USA Patent, 2020, Patent # 10,836,752.   <https://patents.justia.com/patent/10836752>   1. Structure, conformational dynamics, quantum mechanical studies and potential biological activity analysis of multiple sclerosis medicine ozanimod Nabil Al-Zaqri, T. Pooventhiran, D. Jagadeeswara Rao, Ali Alsalme, **Ismail Warad**, Journal of Molecular Structure, 1227 (2020) 129685   <https://www.sciencedirect.com/science/article/pii/S0022286020319980?via%3Dihub>   1. Exo-Endo Isomerism, MEP/DFT, XRD/HSA-Interactions of 2,5-Dimethoxybenzaldehyde: Thermal, 1BNA-Docking, Optical, and TD-DFT Studies, Nabil Al-Zaqri, Mohammed Suleiman, Anas Al-Ali, Khaled Alkanad, Karthik Kumara, Neartur K. Lokanath, Abdelkader Zarrouk, Ali Alsalme, Fahad A. Alharthi, Afnan Al-Taleb, Amjad Alsyahi and Ismail Warad**,** Molecules 25 (**2020**) 5970.   [**https://www.mdpi.com/1420-3049/25/24/5970/pdf**](https://www.mdpi.com/1420-3049/25/24/5970/pdf) |
| **2019** | 1. Ultrasonic synthesis of Oct. *trans*-Br2Cu(N∩N)2 Jahn-Teller distortioncomplex: XRD-properties, solvatochromism, thermal, kinetic and DNAbinding evaluations **Ismail Warad**, Sharif Musameh, Ashraf Sawafta, Paula Brandão, Carlos José Tavares, Abdelkader Zarrouk, Sameer Amereih, Anas Al Ali, Rami Shariah, *Ultrasonics – Sonochemistry*, 52, (2019), 428-436.   <https://www.sciencedirect.com/science/article/pii/S1350417718317851Crystal>   1. Crystal interactions, computational, spectral and thermal analysis of (E)-N'-(thiophen-2-ylmethylene)isonicotinohydrazide as O-N-S-tridentate Schiff base ligand, **Ismail Warad,** Odey Bsharat, Salima Tabti, Amel Djedouani, Mohammed Al-Nuri, Nabil Al-Zaqri, Karthik Kumara, Neartur K. Lokanath, Sameer Amereih, Ibrahim M. Abu-Reidah, *Journal of Molecular Structure* 1185 (2019) 290-299.   <https://www.sciencedirect.com/science/article/abs/pii/S0022286019302492>   1. Crystal structure of (E)-4-((2-fluoro-3-(trifluoromethyl)benzylidene)amino)-3-methyl-1H-1,2,4-triazole-5(4H)-thione, C11H8F4N4S, Mohamed Reda Aouad, Mouslim Messali, Nadjet Rezki, Abdelkader Zarrouk and **Ismail Warad**, *Z. Kristallogr. NCS* 234 (2019) 343–344.   <https://www.degruyter.com/view/j/ncrs.2019.234.issue-2/ncrs-2018-0405/ncrs-2018-0405.xml>   1. Vibrational spectral analysis, XRD-structure, computation, exo⬄endo isomerization and non-linear optical crystal of 5-((5-chloro-1*H*-indol-2-yl)methylene)-1,3-diethyl-2-thioxodihy-dropyrimidine-4,6 (1*H*,5*H*)-dione, Mezna Saleh Altowyan, Assem Barakat, Abdullah Mohammed Al-Majid,Hazem A. Ghabbour,Abdelkader Zarrouk, **Ismail Warad,** *Central Chemistry Journal*, 13 (2019) 11   <https://bmcchem.biomedcentral.com/articles/10.1186/s13065-019-0524-8>   1. Crystal structure of 5-(4-fluorophenyl)-4-methyl- 2,4-dihydro-3*H*-1,2,4-triazole-3-thione, C9H8FN3S ,Mohamed Reda Aouad, Mouslim Messali, Khalid Alharbi, Nadjet Rezki, Abdelkader Zarrouk and **Ismail Warad**, *Z. Kristallogr. NCS* 234 (2019( 345–346. <https://www.degruyter.com/view/j/ncrs.2019.234.issue-2/ncrs-2018-0406/ncrs-2018-0406.xml> 2. Hydrophobic pocket docking, double-proton prototropic tautomerism in contradiction to single-proton transfer in thione⇔thiol Schiff base with triazole-thione moiety: Green synthesis, XRD and DFT-analysis, Mohamed Reda Aouad, Mouslim Messali, Nadjet Rezki, Musa A. Said, Dieter Lentz, Lana Zubaydi, **I.Warad**, *Journal of Molecular Structure* 1180 (2019) 455-461.   <https://www.sciencedirect.com/science/article/pii/S0022286018314315>   1. Untargeted metabolite profling and phytochemical analysis of *Micromeria fruticosa* L. (Lamiaceae) leaves, Ibrahim M. Abu-Reidah, David Arráez-Román, Mohammed Al-Nuri, and **Ismail Warad**, *Food Chemistry* 279 (2019) 128–143.   <https://www.sciencedirect.com/science/article/pii/S0308814618320934>   1. Two new 8-hydroxyquinoline derivatives as efficient corrosion inhibitors for mild steel in hydrochloric acid: Synthesis, electrochemical, surface morphological, UV–visible and theoretical studies, M. Rbaa, F. Benhiba, I.B. Obot, H. Oudda, **I. Warad,** B. Lakhrissi, A. Zarrouk, *Journal of Molecular Liquids* 276 (2019) 120–133. <https://www.sciencedirect.com/science/article/pii/S2468023018304905> 2. Corrosion protection of carbon steel by two newly synthesized benzimidazol-2-ones substituted 8-hydroxyquinoline derivatives in 1 M HCl:Experimental and theoretical study Mohamed El Faydy, Mohamed Rbaa, Loubna Lakhrissi, Brahim Lakhrissi, **Ismail Warad,** *Surfaces and Interfaces* 14 (2019) 222–237 <https://www.sciencedirect.com/science/article/pii/S2468023018304905> 3. In situ synthesis, electrochemical, surface morphological, UV-Visible, DFT and Monte Carlo simulations of novel 5-substituted-8-hydroxyquinoline for corrosion protection of carbon steel in a hydrochloric acid solution, H. Zarrok, B. Lakhrissi, A. Guenbour, **I. Warad**, *Journal of Molecular Liquids*, 280 (2019) 341-359.   <https://www.sciencedirect.com/science/article/pii/S016773221831585X>   1. Crystal structure of 4,4-dimethyl-2-(trifluoromethyl)-4,5-dihydro-1*H*-imidazole, C6H9F3N2, Musa Said, **Ismail Warad**, O. Seraj Alzahrani, Abdelkader Zarrouk and Dieter Lentz, *Z. Kristallogr. NCS* 234 (2019) 579-580.   <https://www.degruyter.com/view/j/ncrs.ahead-of-print/ncrs-2018-0582/ncrs-2018-0582.xml>   1. Effect of alkyl derivation on the chemical and antibacterial properties of newly synthesized Cu(II)- diamine complexes, Ismail Badran, Lubna Abdallah, Ruba Mubarakeh, **Ismail Warad,** *Mor Journal of Chemistry* 7 (2019) 161-170.   <https://revues.imist.ma/index.php?journal=morjchem&page=article&op=view&path%5B%5D=14400>   1. New quinoxaline derivative as a green corrosion inhibitor for mild steel in mild acidic medium: Electrochemical and theoretical studies, T. Laabaissi, F. Benhiba, Z. Rouifi, M. Missioui, K. Ourrak,H. Oudda, Y. Ramli, **I. Warad,** M. Allali and A. Zarrouk, *Int. J. Corros. Scale Inhib.* 8 (2019) 241–256.   <http://ijcsi.pro/papers/new-quinoxaline-derivative-as-a-green-corrosion-inhibitor-for-mild-steel-in-mild-acidic-medium-electrochemical-and-theoretical-studies/>   1. Synthesis, experimental and theoretical investigation of tetrazole derivative as an effective corrosion inhibitor for mild steel in 1 M HCl, M. Rbaa, F. Benhiba, I.B. Obot, H. Oudda, **I. Warad,** B. Lakhrissi, A. Zarrouk, *Journal of Bio- and Tribo-Corrosion* 50, (2019) 1-16.   <https://link.springer.com/article/10.1007%2Fs40735-019-0233-9>   1. N-[2-(Trifluoromethyl)phenyl]maleamic acid: crystal structure and Hirshfeld surface analysis, P. A. Suchetan, Shet M. Prakash, N. K. Lokanath, S. Naveen and **Ismail Warad**, *Acta Cryst. E75* (2019) 766–769.   <https://doi.org/10.1107/S2056989019006509>   1. Solvent induced 4,4,4-trifluoro-1-(2-naphthyl)-1,3 butanedione Cu(II) complexes: Synthesis, Structure, DFT calculation and Biocidal activity, Hema M. K., Karthik C. S., Pampa K. J., Manukumar H. M., Mallu P., **Ismail Warad**, Lokanath N.K, *Polyhedron,* 186 (2019) 127-137.   <https://www.sciencedirect.com/science/article/pii/S027753871930275X>   1. Performance and computational studies of new soluble triazole as corrosion inhibitor for carbon steel in HCl Z. Rouifi, F. Benhiba1, M. El Faydy, T. Laabiassi, H. About, H. Oudda, **I. Warad,** A. Guenbour, B. Lakhrissi, A. Zarrouk, *Chemical Data Collection,* 22 (2019)100242   <https://www.sciencedirect.com/science/article/pii/S2405830019300217>   1. Crystal structure of 5-(4-fluorophenyl)-4-methyl-2,4-dihydro-3H-1,2,4-triazole-3-thione, C9H8FN3S , M. R. Aouad, M.Messali, K. Alharbi, N. Rezki, A. Zarrouk and **I. Warad**, *Z. Kristallogr. NCS,* 234 (2019) 245-365.   <https://doi.org/10.1515/ncrs-2018-0406>   1. Synthesis, XRD, DFT-optimization, MEP and Hirshfeld surface analysis of di-μ-Chloro-bis[chloro(1,10-phenanthroline)Cd(II)dimer, S. Amereih, A. Al Ali, A.r Zarrouk, A Chetouni, K. Kumara, N. Lokanath, **I. Warad,** *Mor. J. Chem. 7 (2019) 392-400*.   <https://revues.imist.ma/index.php?journal=morjchem&page=article&op=view&path%5B%5D=16070>   1. Performance and computational studies of two soluble pyran derivatives as corrosion inhibitors for mild steel in HCl, M. Khattabi1, F. Benhiba, S. Tabti, A. Djedouani, A. El Assyry, R. Touzani, **I. Warad,** H. Oudda1, A. Zarrouk, *Journal of Molecular Structure,* 1196 (2019) 231-244   <https://www.sciencedirect.com/science/article/pii/S0022286019307938>   1. Novel Cu (II) and Zn (II) complexes of 8-hydroxyquinoline derivatives as effective corrosion inhibitors for mild steel in 1.0 M HCl solution: Computer modelling supported experimental studies, R. Touzani, **I. Warad,** H. Oudda, A. Zarrouk, *Journal of Molecular Liquids*, 290 (2019) 111243.   <https://www.sciencedirect.com/science/article/pii/S0167732219306695>   1. Benzodiazepine Derivatives as Corrosion Inhibitors of Carbon Steel in HCl Media: Electrochemical and Theoretical Studies, T. Laabaiss, F. Benhiba, Z. Rouifi, M. Rbaa, H. Oudda, H. Zarrok, B. Lakhrissi, A. Guenbour, **I. Warad,** Protection of Metals and Physical Chemistry of Surfaces *10 (2019) 30* . 2. An Efficient Method for Water Treatment of Artificial Ponds in Jordan Valley Based on Photovoltaic Pumping System, T. Khatib, S. Qalalweh, R. Ameerah1 **I. Warad**, *Agriculture*, *9* (2019) 151.   <https://www.mdpi.com/2077-0472/9/7/151>   1. Influence of Temperature on Alloy 31 in AbrasionCorrosion Conditions of Phosphoric Acid Medium, Siham Skal, Younes Kerroum, Abdellah Guenbour, Abdelkbir Bellaouchou, Mohamed Tabyaoui, Hassane Idrissi, **Ismail Warad**, Abdelkader Zarrouk, *Anal. Bioanal. Electrochem,* 11 (2019) 877-891.   <http://www.abechem.com/No.%207-2019/2019,%2011(7),%20877-891.pdf>   1. Synthesis and DFT calculations of new ruthenium(II) nitrosyl complexes using cis-facdichlorotetrakis(dimethylsulfoxide)ruthenium(II) precursor and different oximes as sources of nitrosyl ligand, Reowida Y. Al Shawafy, Abdelrahman A. Dahy, **Ismail Warad**, Refaat M. Mahfouz, *Journal of Coordination Chemistry*, 72 (2019) 2200.   <https://doi.org/10.1080/00958972.2019.1647340>   1. The inhibitive impact of both kinds of 5-isothiocyanatomethyl-8- hydroxyquinoline derivatives on the corrosion of carbon steel in acidic electrolyte, M. El Faydy, F. Benhiba, B. Lakhrissi, M. Ebn Touhami, **I. Warad,** F. Bentiss, A. Zarrouk, Journal of Molecular Liquids 295 (2019) 111629.   <https://doi.org/10.1016/j.molliq.2019.111629>   1. Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl benzoate, S. N. Sheshadri, C. S. Chidan Kumar, S. Naveen, M. K. Veeraiah, Kakarla, Raghava Reddye and **Ismail Warad**, Acta Cryst. (2019). E75, 1719–1723. <https://doi.org/10.1107/S2056989019013975> 2. Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl 2-chlorobenzoate, S.N. Sheshadri, C. S. Chidan Kumar, S. Naveen, M. K. Veeraiah, Kakarla Raghava Reddye and **Ismail Warad,** Acta Cryst. (2019). E75, 1792–1796.   <https://doi.org/10.1107/S2056989019014336>.   1. Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl picolinate, T. N. Sanjeeva Murthy, C. S. Chidan Kumar, S. Naveen, M. K. Veeraiah, Kakarla Raghava Reddye and **Ismail Warad,** Acta Cryst. (2019). E75, 1763–1767,   <https://doi.org/10.1107/S2056989019014105>   1. *Lepidium sativum* Seeds as Green Inhibitor for Carbon Steel Corrosion in 1.0 M Hydrochloric Acid Solution, Khalid Chatoui, Siham Echihi, Mohamed Rbaa, Hicham Harhar, Mohamed Tabyaoui, **Ismail Warad** and Abdelkader Zarrouk, *Anal. Bioanal. Electrochem., Vol. 11, No. 10, 2019, 1289-1303.* 2. Synthesis, physico-chemical, Hirschfield surface and DFT/B3LYP calculation of two new hexahydropyrimidine heterocyclic compounds. **I. Warad,** M. Al-Nuri, O. Ali, I. M. Abu-Reidah, A. Barakat, T. Ben Hadda, Abdelkader Zarrouk, Smaail Radi, Rachid Touzani and Hicham Elmsellem, *Iranian Journal of Chemistry and Chemical Engineering (IJCCE) 38 (2019) 59-68.*   <https://iranjournals.nlai.ir/1295/article_637835_b31b745211a8fb2c47230d563684e89b.pdf>   1. Design, structural, C–H….H–C supramolecular interactions and computational investigations of Cd(NN)X2 complexes based on an asymmetrical 1,2- diamine ligand: physicochemical and thermal analysis, Ismail Warad, Khaled Alkanad, Mohammed Suleiman, Karthik Kumara, AnasAl-Alia, Yasser H. E. Mohammedd, Neartur K. Lokanathb and Abdelkader Zarrouk, Journal of Coordination Chemistry, 72 (2019) 3285–3297 <https://www.tandfonline.com/doi/full/10.1080/00958972.2019.1696960> 2. Nabil Al-Zekri, **Ismail Warad**, and others, Sulfonamode Corrosion Inhabitors, US patent, 2019. No.10494722   <http://www.freepatentsonline.com/10494722.html> |
| **2018** | 1. Ultrasound-assisted synthesis of two novel [CuBr(diamine)2.H2O]Br complexes: Solvatochromism, crystal structure, physicochemical, Hirshfeld surface thermal, DNA/binding, antitumor and antibacterial activities, **Ismail Warad**, Firas, F. Awwadi, Bahaa Abd Al-Ghani, Ashraf Sawafta, N.Shivalingegowda, Neartur K. Lokanath, Mohammad S. Mubarak, Taibi Ben Hadda, Abdelkader Zarrouk, Fuad Al-Rimawi, Abdallah Bani Odeh, Sameer A. Barghouthi, *Ultrasonics – Sonochemistry*, 48, (2018), 1-10.   <https://www.sciencedirect.com/science/article/pii/S1350417718305996>   1. Phytochemical Analysis, Antioxidant and Anticorrosive Activities of Thymus Algeriensis Extracts Amin Salhi, Imad Hamdani, Abdelhamid Bouyanzer, Nabila Chahboun, Hassan Amhamdi, **Ismail Warad,** Belkheir Hammouti, Fouad Bentiss and Abdelkader Zarrouk, *Anal. Bioanal. Electrochem.,* 12, 2018, 1587-1610.   <http://abechem.com/index.php?option=com_content&view=article&id=79&Itemid=3>   1. Crystal structure and Hirshfeld surface analysis of (E)-3-(2-chloro-4-fluorophenyl)-1-(2,5-dichlorothiophen-3-yl)prop-2-en-1-one T. N. Sanjeeva Murthy, S. Naveen, C. S. Chidan Kumar, M. K. Veeraiah, Ching Kheng Quah, B. P. Siddarajuf, **Ismail Warad** , *Acta Crystallographica Section E* E74*,* (2018), 1134–1137.   <https://doi.org/10.1107/S2056989018010216>   1. Enzymatic Hydrolysis of Olive Industry Solid Waste into Glucose, the Precursor of Bioethanol, Othman Hamed; Shehdeh Jodeh; Israa Dagher; Rachid Salghi; Khalil Azzaoui; Nisreen Al-Hajj; Wade Jodeh; **Ismail Warad,** *Iran. J. Chem. Chem. Eng., 37, 2018, 53-60.*   <http://www.ijcce.ac.ir/article_34840.html>   1. Method of making palladium nanoparticles, Nabil Al-Zekri, **Ismail Warad**, and others, US patent, 2018. No. 10016752.   <http://www.freepatentsonline.com/10016752html>   1. Method of synthesizing (E)-1,2-di(pyridin-2-yl) ethene-1,2-diol,Nabil Al-Zekri, **Ismail Warad**, and others, US patent, 2018. No. 10017474.   <http://www.freepatentsonline.com/10017474.html>   1. Anticorrosion Potential of New Synthesized Naphtamide on Mild Steel in Hydrochloric Acid Solution: Gravimetric, Electrochemical, Surface Morphological, UV-Visible and Theoretical Investigations Abdelouahad Aouniti, Mohamed El Azzouzi1, Imene Belfilali, **Ismail Warad**, Hicham Elmsellem, Belkheir Hammouti, Charafeddine Jama, Fouad Bentiss and Abdelkader Zarrouk, Anal. Bioanal. Electrochem, Vol. 10, No. 9, 2018, 1193-1210.   <http://abechem.com/No.%209-2018/2018,%2010(9),%201193-1210.pdf>   1. Crystal structure of salts of 2-aminopyridine and citric acid [C5H7N2]+[C6H7O7]− and [C5H7N2]+3[C6H5O7]−3. Shet M. Prakash, S. Naveen, N. K. Lokanath, P. A. Suchetan and **Ismail Warad**. *Acta Crystallographica Section E* E74*,* (2018) 1111–1116.   <https://doi.org/10.1107/S2056989018009787>   1. Crystal structure of 4-(dimethylamino)-1-(prop-2-yn-1-yl)pyridin-1-ium perchlorate, C10H13ClN2O4, Mohamed Reda Aouad, Mouslim Messali, and **Ismail Warad**, *Z. Kristallogr. NCS* (2018); 233(5):897–898.   <https://www.degruyter.com/view/j/ncrs.ahead-of-print/ncrs-2018-0084/ncrs-2018-0084.xml>   1. Single proton intramigration in novel 4-phenyl-3-((4-phenyl-1*H*-1,2,3-triazol-1-yl)methyl)-1*H*-1,2,4-triazole-5(4*H*)-thione: XRD-crystal interactions, physicochemical, thermal, Hirshfeld surface, DFT realization of thiol/thione tautomerism, Mohamed Reda Aouad, Mouslim Messali, Nadjet Rezki, Nabil Al-Zaqri, **Ismail Warad**, *Journal of Molecular Liquids* 264 (2018), 621-630   <https://www.sciencedirect.com/science/article/pii/S0167732218318786>   1. Crystal structure of 4-phenyl-3-((4-phenyl-1*H*-1,2,3-triazol-1-yl)methyl)-1*H*-1,2,4-triazole-5(4*H*)-thione, C17H14N6S, Mohamed Reda Aouad, Mouslim Messali, Nadjet Rezki, Naveen Shivalingegowda and **Ismail Warad,** *Z. Kristallogr. NCS* 2018.   <https://www.degruyter.com/downloadpdf/j/ncrs.ahead-of-print/ncrs-2018-0025/ncrs-2018-0025.pdf>   1. Para Hydroxy Benzaldehyde Linked via Two Carbon Linker: An Insight in to X-Ray Crystallographic, DFT-Optimization and Hirshfeld Analysis. Naveen S., Prashantha Kumar B. R., Karthik Kumara, Santhosh Kumar, Nanjan M. J., Lokanath N. K., Abdelkader Zarrouk, **Ismail Warad**. *J. Mater. Environ. Sci., 9,* 2018, 1950-1956.   <https://www.jmaterenvironsci.com/Document/vol9/vol9_N7/215-JMES-4220-Naveen.pdf>   1. Synthesis, structural exploration, spectral and combinatorial analysis of racemic-3-isobutyl-5-phenyl-5-(pyridin-4-yl)imida-zolidine-2,4-dione: Comparison between experimental and DFT calculations, S.B. Benaka Prasad, S. Naveen, C.S. Ananda Kumar, N.K. Lokanath, A.V. Raghu, Iqab Daraghmeh, Kakarla Raghava Reddy, **Ismail Warad,** Journal of Molecular Structure, 1167 (2018) 215-226.   <https://doi.org/10.1016/j.molstruc.2018.04.096>   1. Quantum chemical insight into the molecular structure of L-chemosensor 1,3-dimethyl-5-(thien-2-ylmethylene)-pyrimidine-2,4,6-(1H,3H,5H)-trione: Naked-eye colorimetric detection of copper(II) anions S. N. Sheshadri, Huey Chong Kwong, C. S. Chidan Kumar, Ching Kheng Quah, B. P. Siddaraju, M. K. Veeraiah, Muhammad Aiman Bin Abd Hamid and **Ismail Warad**, Journal of Theoretical and Computational Chemistry, Vol. 17, No. 1 (2018) 1850005.   <https://www.worldscientific.com/doi/abs/10.1142/S0219633618500050?journalCode=jtcc>   1. Adsorption Properties and Inhibition of Carbon Steel Corrosion in Hydrochloric Acid Solution by Novel Diazepine Derivatives: Experimental and Theoretical Studies T. Laabaissi, M. Rbaa, K. Ourrak, H. Zarrok, M. El Faydy, B. Lakhrissi, H. Lgaz, R. Touir, **I. Warad**, H. Oudda, J. Mater. Environ. Sci., 2018, 9, 1796-1808   <https://doi.org/10.26872/jmes.2018.9.6.200>   1. Crystal structure and Hirshfeld surface analysis of a pyridiniminium bromide salt: 1-[2-([1,100-biphenyl]-4-yl)-2-oxoethyl]-3-methyl-1,4-dihydropyridin-4-iminium bromide, [S. N. Sheshadri](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Sheshadri,%20S.N.), [H. C. Kwong](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Kwong,%20H.C.), [C. S. Chidan Kumar](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Chidan%20Kumar,%20C.S.), [C. K. Quah](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Quah,%20C.K.), [B. P. Siddaraju](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Siddaraju,%20B.P.), [M. K. Veeraiah](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Veeraiah,%20M.K.), [M. A. B. A. Hamid](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Hamid,%20M.A.B.A.) and [**I. Warad**](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Warad,%20I.)**,** Acta Cryst. (2018). E74, 752–756   <https://doi.org/10.1107/S2056989018006217>   1. Crystal structure the coordination polymer catena-poly[chlorido-{μ2-2-(((3,5-dimethyl-1H-pyrazol-1-yl)methyl)amino)-3-hydroxybutanoato-κ4N,N,O:O}copper(II)], C11H16ClCuN2O3. Mouslim Messali, Rafika El Ati, Rachid Touzani, Mohamed Reda Aouad and **Ismail Warad**. Z. Kristallogr. NCS 2018; 233(3): 493–494.   <https://www.degruyter.com/view/j/ncrs.ahead-of-print/ncrs-2017-0383/ncrs-2017-0383.xml>   1. 1, 3-Bis {[(E)-(9-ethyl-9H-carbazol-3-yl) methylene] amino} propan-2-ol, **Ismail Warad**, Nisreen Amer, Huda Abedalrazeq, Anas Al Ali, Nabil Al-Zaqri, Hicham Elmsellem, and Abdelkader Zarrouk. *Molbank* (2018): M986.   <http://www.mdpi.com/1422-8599/2018/1/M986>   1. Coupling of electrochemical and theoretical techniques to study the interaction of steel/terazole based on 8-hydroxyquinoline in 1.0 M HCl. Oudda, H., R. Touir, M. El M'Rabet, **I. Warad**, A. Guenbour, and B. Lakhrissi. *J. Mater. Environ. Sci*., 2018, 9, 1086-1097.   <https://www.jmaterenvironsci.com/Document/vol9/vol9_N3/120-JMES-3461-Rouifi.pdf>   1. Regular square planer bis-(4, 4, 4-trifluoro-1-(thiophen-2-yl) butane-1, 3-dione)/copper (II) complex: Trans/cis-DFT isomerization, crystal structure, thermal, solvatochromism, hirshfeld surface and DNA-binding analysis." Hema, M. K., C. S. Karthik, **Ismail Warad**, N. K. Lokanath, Abdelkader Zarrouk, Karthik Kumara, K. J. Pampa, and P. Mallu. *Journal of Molecular Structure* 1157 (2018): 69-77.   <https://www.sciencedirect.com/science/article/pii/S002228601731668X>   1. New Cu (II), Co (II) and Ni (II) complexes of chalcone derivatives: Synthesis, X-ray crystal structure, electrochemical properties and DFT computational studies." Tabti, Salima, Amel Djedouani, Djouhra Aggoun, **Ismail Warad**, Samra Rahmouni, Samir Romdhane, and Hosni Fouzi. *Journal of Molecular Structure* 1155 (2018): 11-20.   <https://www.sciencedirect.com/science/article/pii/S0022286017314308>   1. Synthesis, spectra and X-ray crystallography of dipyridin-2-ylmethanone oxime and its CuX2 (oxime) 2 complexes: Thermal, Hirshfeld surface and DFT analysis. **Warad, Ismail**, Muneer Abdoh, Anas Al Ali, Naveen Shivalingegowda, Karthik Kumara, Abdelkader Zarrouk, and Neartur Krishnappagowda Lokanath. *Journal of Molecular Structure* 1154 (2018): 619-625.   <https://www.sciencedirect.com/science/article/pii/S0022286017314333>   1. Synthesis, physicochemical, thermal, computationand DNA binding evaluation of trans-[CuBr2(Me2NCH2CH2NH2)2] complex. **Ismail Warad**, Ashraf Sawafta, Reeta Essa, Mohammed Al-Nuri, Aminah Abu Libdeh, Anas Al Ali, Muneer Abdoh, Nabil Al-Zaqri, Karthik Kumara, Abdelkader Zarrouk. J. Mater. Environ. Sci. 9 (2018) 994-1003.   <https://www.jmaterenvironsci.com/Document/vol9/vol9_N3/111-JMES-3871-Warad.pdf>   1. Experimental and theoretical studies of 5-((4-phenyl-4,5-dihydro-1H-tetrazol-1-yl)methyl)quinolin-8-ol quinoline derivative as effective corrosion inhibitor for mild steel in 1.0 M HCl. Zarrok, H., Oudda, H., Touir, R., El M'Rabet, M., **Warad, I.**, Guenbour, A. and Lakhrissi, B., J. Mater. Environ. Sci., 9, 2018, 345-357.   <https://www.jmaterenvironsci.com/Document/vol9/vol9_N1/38-JMES-3385-About.pdf>   1. Cholinesterase Inhibitory Activity of Some semi-Rigid Spiro Heterocycles: POM analyses and Crystalline Structure of Pharmacophore Site. Hadda, T.B., Talhi, O., Silva, A.S.M., Senol, F.S., Orhan, I.E., Rauf, A., Mabkhot, Y.N., Bachari, K., **Warad, I.**, Farghaly, T.A. and Althagafi, I.I. *Mini reviews in medicinal chemistry*, *2018, 18.*   <http://europepmc.org/abstract/med/28714400>   1. Imidazo [4, 5-b] pyridines as a New Class of Corrosion Inhibitors for Mild Steel: Experimental and DFT Approach. Bouayad, K., Rodi, Y.K., Elmsellem, H., El Ghadraoui, E.H., Ouzidan, Y., Abdel-Rahman, I., Kusuma, H.S., **Warad, I.**, Mague, J.T., Essassi, E.M. and Hammouti, B. Mor. J. Chem. 6N°1 (2018) 22-34.   <https://www.researchgate.net/profile/Heri_Kusuma4/publication/320404436_Imidazo45-bpyridines_as_a_New_Class_of_Corrosion_Inhibitors_for_Mild_Steel_Experimental_and_DFT_Approach/links/59e298f5aca2724cbfe01867/Imidazo4-5-bpyridines-as-a-New-Class-of-Corrosion-Inhibitors-for-Mild-Steel-Experimental-and-DFT-Approach.pdf>   1. Antibacterial and Antioxidant Screening of Semi-Synthetic Naringin Based Hydrazone and Oxime Derivatives, Nidal Jaradat, Nuha Shawarb, Fatima Hussein, Motasem Al-Masri, **Ismail Warad**, Ahmad Khasati, Mayadah Shehadeh, Mohammad Qneibi, Azmi Mahmoud Ali Hussein, and Sabha Makhamreh, Jundishapur J Microbiol. In Press (2018):e65496   <https://cdn.neoscriber.org/cdn/dl/176669d0-5e5a-11e8-b9e6-333120e42fbb>   1. Synthesis, spectroscopic and Hirshfeld surface analysis and fluorescence studies of (2E,200E)-3,300- (1,4-phenylene)bis[1-(4-hydroxyphenyl)prop-2-en- 1-one] N,N-dimethylformamide disolvate Huey Chong Kwong, Ai Jia Sim, Chidan Kumar, Ching Kheng Quah, Suchada Chantrapromma, S. Naveen and Ismail Warad, Acta Cryst. (2018). E74, 835–839   <https://doi.org/10.1107/S2056989018007429>   1. 4-(2-(2-(2-(2-(Pyridine-4-yl)ethylthio)ethoxy)ethylthio)ethyl)pyridine as New Corrosion Inhibitor for Mild Steel in 1.0 M HCl Solution:Experimental and Theoretical Studies. A. Khadiri1 · A. Ousslim, · K. Bekkouche, · A. Aouniti, **· I. Warad,** · A. Elidrissi, · B. Hammouti, · F. Bentiss, ·M. Bouachrine, · A. Zarrouk, Journal of Bio- and Tribo-Corrosion (2018) 4:64.   <https://doi.org/10.1007/s40735-018-0179-3>   1. Potential of New Synthesized Naphtamideon Mild Steel in Hydrochloric Acid Solution: Gravimetric, Electrochemical, Surface Morphological, UV-Visible and Theoretical Investigations, Abdelouahad Aouniti, Mohamed E Azzouzi, Imene Belfilali, **Ismail Warad,** Hicham Elmsellem, Belkheir Hammouti, Charafeddine Jama, Fouad Bentiss and Abdelkader Zarrouk, *Anal. Bioanal. Electrochem., 10, 2018, 1193-1210*   <https://staff.najah.edu/en/publications/9051/>   1. Corrosion Inhibition Study of 5, 5-diphenylimidazolidine- 2, 4-dione for Mild Steel Corrosion in 1 M HCl Solution: Experimental, Theoretical Computational and MonteCarlo Simulations Studies. Rajae Nabah, Fouad Benhiba1, Youssef Ramli, Moussa Ouakki, Mohammed Cherkaoui, Hassan Oudda1, Rachid Touir, **Ismail Warad** and Abdelkader Zarrouk, Anal. Bioanal. Electrchem 10, 2018, 1375-1398.   <http://www.abechem.com/No.%2010-2018/2018,%2010(10),%201375-1398.pdf>   1. Synthesis, Thermo-Optical Characterization, Crystal Structure, Hirshfeld Surface Analysis and DFT Studies Of ((4-Chloro-6-Methyl-2-Oxo-2HChromen-3-Yl) Methylene) Benzene-Sulfonohydrazide, K.N. Chethan Prathap, S.R. Kumara Swamy, M. Prabhuswamy , **Ismail Warad** and N.K. Lokanath 2018, 7, 501-512.   <http://www.joac.info/ContentPaper/2018/1-5-3-3-7.pdf> |
| **2017**  **2016**  **2015**  **2015**  2014  2013  2012  2011 | 1. 1, 3-Bis [(E)-(3-bromobenzylidene) amino] propan-2-ol. **Warad, I.,** Abedalrazeq, H., Amer, N., Al-Nuri, M., Al Ali, A., Al-Zaqri, N., & Shivalingegowda, N. (2017). *Molbank*, *2017*(4), M971.   <http://www.mdpi.com/1422-8599/2017/4/M971>   1. Crystal structure and Hirshfeld surface analysis of (2E, 2′ E)-3, 3′-(1, 4-phenylene) bis [1-(2, 4-difluorophenyl) prop-2-en-1-one]." Kwong, Huey Chong, Aijia Sim, Chidan Kumar, Li Yee Then, Y-F. Win, Ching Kheng Quah, S. Naveen, and **Ismail Warad**. *Acta Crystallographica Section E: Crystallographic Communications* 73, no. 12 (2017): 1812-1816.   <https://scripts.iucr.org/cgi-bin/paper?hb7696>   1. Thermodynamic study of corrosion inhibition of carbon steel in acidic solution by new pyrimidothiazine derivative M. Larouj, K. Ourrak, M. El M'Rabet, H. Zarrok, H. Serrar4, M. Boudalia, S. Boukhriss, **I. Warad**, H. Oudda, R. Touir, Journal of Materials and Environmental Sciences, 2017.   <https://www.jmaterenvironsci.com/Document/vol8/vol8_N11/412-JMES-3309-Larouj.pdf>   1. Crystal structure, Hirshfeld surface, physicochemical, thermal and DFT studies of (N1E, N2E)-N1,N2-bis((5-bromothiophen-2-yl)methylene)ethane-1,2-diamine N2S2 ligand and its [CuBr(N2S2)]Br complex, **Ismail Warad**, Yasmin Al-Demeri, Mohammed Al-Nuri, Said Shahwan, Muneer Abdoh, Shivalingegowda Naveen, Neartur Krishnappagowda Lokanath, Mohammad S. Mubarak, Taibi Ben Hadda Yahia N. Mabkhot, Journal of Molecular Structure.1142,2017,217–225. [http://www.sciencedirect.com/science/article/pii/S0022286017305057](http://www.sciencedirect.com/science/article/pii/S0022286017305057%20%20) 2. Synthesis, spectral, solvatochromism, thermal, electrochemical, Hirschfield surface, combined experimental with DFT of asymmetrical diamine/Cu(II) complexes: Crystal structure of trans-[Cu(Et2NCH2CH2NH2)2.H2O](NO3)2 isomer, **Ismail Warad**, Sharif Musameh, Ismail Badran, Nashaat N. Nassar, Paula Brandao, Carlos Jose Tavares, Assem Barakat, Journal of Molecular Structure, (2017) 328-338.   <http://www.sciencedirect.com/science/article/pii/S0022286017310001>   1. Cholinesterase Inhibitory Activity of Some semi-Rigid Spiro Heterocycles: POM analyses and Crystalline Structure of Pharmacophore Site, Taibi Ben Hadda, Oualid Talhi, Artur S.M. Silva, Fatma Sezer Senol , Ilkay Erdogan Orhan, Abdur Rauf, Yahia N. Mabkhot, Khaldoun Bachari , **Ismail Warad** , Thoraya A. Farghaly, Ismail I. Althagafi , Mohammad S. Mubarak, Mini Rev Med Chem. 2017 Jul 13. doi: 10.2174/1389557517666170713114039. 2017,   [https://www.ncbi.nlm.nih.gov/pubmed/28714400](https://www.ncbi.nlm.nih.gov/pubmed/28714400%20)   1. Spontaneous methylation of an bromoketone from DMF: synthesis and crystalline structure of 1,1'-(3,4-diphenylthieno[2,3-b]thiophene-2,5-diyl)bis-propan-1-one, Yahia Mabkhot, Salim Al-showiman, Saied. M. Soliman, hazem S. Ghabbour, Taibi ben Hadda**, Ismail Warad**, Ahmed Boshaala, Heterocycles, 2017 -. DOI: 10.3987/COM-16-13605.   [https://www.heterocycles.jp/newlibrary/downloads/PDF/25100/94/4](https://www.heterocycles.jp/newlibrary/downloads/PDF/25100/94/4%20)   1. New isomeric Cu(NO2-phen)2Br]Br complexes: Crystal structure, Hirschfeld surface, physicochemical, solvatochromism, thermal, computational and DNA-binding analysis, **Ismail Warad**, Firas, F. Awwadi, Malak Daqqa, Anas Al Ali, Taher S. Ababneh, Tareq M. A. AlShboul, Taghreed M. A. Jazzazi, Fuad Al-Rimawi, Taibi Ben Hadda, Yahia N. Mabkhot, Journal of Photochemistry & Photobiology, B: Biology 171, 2017, 9-19.   [http://www.sciencedirect.com/science/article/pii/S1011134416311642.](%20http:/www.sciencedirect.com/science/article/pii/S1011134416311642.%20)   1. Three closely related (2E,2E)-3,3-(1,4-phenylene)-bis[1-(methoxyphenyl)prop-2-en-1-ones]: supramolecular assemblies in one dimension mediated by hydrogen bonding and C—H…π interactions, Aijia Sim, C. S. Chidan Kumar, Huey Chong Kwong, Li Yee Then,Yip-Foo Win, Ching Kheng Quah, S. Naveen, S. Chandraju, N. K. Lokanath and **Ismail Warad**, Acta Cryst. (2017). E73, 896–900.   [https://doi.org/10.1107/S2056989017007460](https://doi.org/10.1107/S2056989017007460%20)   1. (E)-1-(3-Bromophenyl)-3-(3-fluorophenyl)prop-2-en-1-one S. Rajendraprasad, C. S. Chidan Kumar, Ching Kheng Quah, S. Chandraju, N. K. Lokanath, S. Naveen and **Ismail Warad,** IUCrData (2017), 2, x170379.   [https://doi.org/10.1107/S2414314617003790](https://doi.org/10.1107/S2414314617003790%20)   1. The crystal structure of zwitterionic 2-{[(4-iminiumyl-3-methyl-1,4-dihydropyridin-1-yl)methyl]-carbamoyl}benzoate hemihydrate C. S. Chidan Kumar,a Ai Jia Sim, Weng Zhun Ng, Tze Shyang Chia, Wan-Sin Loh, Huey Chong Kwong, Ching Kheng Quah, S. Naveen, N. K. Lokanathe and **Ismail Warad**, Acta Cryst. (2017) E73, 927–931.   [https://doi.org/10.1107/S2056989017007836](%20https:/doi.org/10.1107/S2056989017007836)   1. Synthesis, physicochemical analysis of two new hemilabile ether-phosphine ligands and their first stable bis-ether-phosphine/Cobalt(II) tetrahedral complexes, Ismail Warad, Journal of Molecular Structure. **Ismail Warad**, Assem Barakat, 1134, 2017, 17–24.   [http://www.sciencedirect.com/science/article/pii/S0022286016313138](%20http:/www.sciencedirect.com/science/article/pii/S0022286016313138%20)   1. Ethyl 3-methyl-1-phenyl-5-(p-tolyl)-1H-pyrazole-4-Carboxylate, S. Naveen,a A. Dileep Kumar,b Karthik Kumara,c K. Ajay Kumar,b N. K. Lokanath, and **Ismail Warad**, IUCrData (2017).   [https://doi.org/10.1107/S2414314616019726](https://doi.org/10.1107/S2414314616019726%20%20)   1. UHPLC/MS2-based approach for the comprehensive metabolite profiling of bean (Vicia faba L.) by-products: A promising source of bioactive constituents Ibrahim M. Abu-Reidah, David Arráez-Román, **Ismail Warad**, Alberto Fernández-Gutiérrez, Antonio Segura-Carretero, Food Research International, 93, 2017, 87-96.   [http://www.sciencedirect.com/science/article/pii/S0963996917300236 .](http://www.sciencedirect.com/science/article/pii/S0963996917300236%20.%20)   1. Intermolecular interactions in crystal structure, Hirshfeld surface, characterization, DFT and thermal analysis of 5-((5-bromo-1H-indol-3-yl)methylene)-1,3-dimethylpyrimidine-2,4,6(1H,3H,5H)-trione indole, Assem Barakat, Saied M. Soliman, Hazem A. Ghabbour, M. Ali, Abdullah Mohammed Al-Majid, Abdelkader Zarrouk, **Ismail Warad**, Journal of Molecular Structure, 1137, 2017, 354–361.   [http://www.sciencedirect.com/science/article/pii/S0022286017301874](http://www.sciencedirect.com/science/article/pii/S0022286017301874%20%20)   1. Removal efficiency of Pb(II), Zn(II), Cd(II) and Cu(II) from aqueous solution and natural water by ketoenol–pyrazole receptor functionalized silica hybrid adsorbent Said Tighadouini, Smaail Radi, Maryse Bacquet, Stéphanie Degoutin, Mustapha Zaghrioui, Shehdeh Jodeh **Ismail Warad**, Separation Science and Technology 2017, 52, 608–621.   [http://dx.doi.org/10.1080/01496395.2016.1262874](%20http:/dx.doi.org/10.1080/01496395.2016.1262874)   1. Methyl 2-(benzoyloxy)benzoate P. Naveen, S. Naveen, Zabiulla, S. B. Benaka Prasad, N. K. Lokanath, Shaukath Ara Khanuma and Ismail Warad, IUCrData (2017).   [https://doi.org/10.1107/S2414314616019349](%20https:/doi.org/10.1107/S2414314616019349%20%20)   1. (E)-3-(2,3-Dichlorophenyl)-1-phenylprop-2-en-1- oneS. Naveen, A. Dileep Kumar, D. M. Lokeshwari K. Ajay Kumar, N. K. Lokanath and **Ismail Warad**, IUCrData (2017). 2, x170126.   [https://doi.org/10.1107/S2414314617001262](%20https:/doi.org/10.1107/S2414314617001262%20%20)   1. 4-Iodo-N-(phenylsulfonyl)benzamide hemihydrate P. A. Suchetan, A. G. Sudha, E. Suresha, N. K. Lokanath, S. Naveen and **Ismail Warad**, IUCrData (2017). 2, x170149.   [https://doi.org/10.1107/S2414314617001493](%20https:/doi.org/10.1107/S2414314617001493%20%20)   1. 3-(1H-Indol-3-yl)-2-benzofuran-1(3H)-one R. Anil Kumar,a S. Naveen,b M. Abdul Rahiman,c K. M. Mahadevan,M. N. Kumara, N. K. Lokanathe and **Ismail Warad**, IUCrData (2017). 2, x170107.   [https://doi.org/10.1107/S2414314617001079 .](https://doi.org/10.1107/S2414314617001079%20.%20)   1. N-(4-Chlorophenylsulfonyl)-4-iodobenzamide S. Naveen, A. G. Sudha, E. Suresha, N. K. Lokanath, P. A. Suchetan and **Ismail Warad**, IUCrData (2017). 2, x170025   [https://doi.org/10.1107/S2414314617000256 .](%20https:/doi.org/10.1107/S2414314617000256%20.)   1. (E)-1-(1,3-Benzodioxol-5-yl)-3-[4-(dimethylamino)-phenyl]prop-2-en-1-one Karthik Kumara,a S. Naveen,b A. Dileep Kumar,c K. Ajay Kumar,c N. K. Lokanatha and **Ismail Warad**, IUCrData (2017). 2, x162029.   [https://doi.org/10.1107/S2414314616020290 .](%20https:/doi.org/10.1107/S2414314616020290%20.)   1. (E)-1-(5-Chlorothiophen-2-yl)-3-(p-tolyl)prop-2-en-1-one Karthik Kumara, S. Naveen, M. G. Prabhudeva, K. Ajay Kumar, N. K. Lokanatha and **Ismail Warad**, IUCrData (2017). 2, 170038   [https://doi.org/10.1107/S2414314617000384](https://doi.org/10.1107/S2414314617000384%20)   1. (E)-1-(3-Bromophenyl)-3-(4-nitrophenyl)prop-2-en-1-one K. S. Harini Ching Kheng Quah, C. S. Chidan Kumar, S. Chandraju, N. K. Lokanath,d S. Naveene and **Ismail Warad**, IUCrData (2017). 2, x170287   [https://doi.org/10.1107/S2414314617002875](%20https:/doi.org/10.1107/S2414314617002875)   1. Understanding the adsorption of benzimidazole derivative as corrosion inhibitor for carbon steel in 1 M HCl: Experimental and theoretical studies. Y. El Aoufir, Y. El Bakri, H. Lgaz, A. Zarrouk, R. Salghi, **I. Warad**, Y. Ramli, A. Guenbour, E.M. Essassi, H. Oudda, Journal of Materials and Environmental Sciences, 2017, 8, 3290-3302.   [http://www.jmaterenvironsci.com/Document/vol8/vol8\_N9/349-JMES-3191-El%20Aoufir.pdf](%20http:/www.jmaterenvironsci.com/Document/vol8/vol8_N9/349-JMES-3191-El%20Aoufir.pdf)   1. Synthesis, physicochemical, conformation and quantum calculation of novel N-(1-(4-bromothiophen-2-yl)ethylidene)-2-(piperazin-1-yl)ethanamine Schiff base. **Ismail Warad**, Oraib Ali, Riham Ahed, Abdallah Bani Odeh, Sameer A. Barghouthi, Shivalingegowda Naveen, Hicham Elmsellem, Iqab Daraghmeh5 Lokanath N. K., Mustapha Allali. Journal of Materials and Environmental Sciences, 2017, 8, 3844-3854.   [http://www.jmaterenvironsci.com/Document/vol8/vol8\_N11/403-JMES-3303-Benhiba.pdf](%20%20http:/www.jmaterenvironsci.com/Document/vol8/vol8_N11/403-JMES-3303-Benhiba.pdf%20)   1. Two closely related 2-(benzofuran-2-yl)-2-oxoethyl benzoate: structural difference and supramolecular assemblies by C-H...O hydrogen bonds, L.Y. Then, C.S. Chidan Kumar, H.C. Kwong, Y.-F. Win, S.H. Mah, C.K. Quah, S. Naveen and **I. Warad**, Acta Crystallographica Section E. (2017). E73   [https://doi.org/10.1107/S2056989017009422](%20https:/doi.org/10.1107/S2056989017009422%20)   1. Corrosion inhibition study of 2-(2,4-dichlorophenyl)-6-Nitro-1,4-dihydroquinoxaline for carbon steel in hydrochloric acid solution, Benhiba F., Lotfi N., Ourrak K., Benzekri Z., Zarrok H., Guenbour A., Boukhris S., Souizi A., El Hezzat M., **Warad I.**, Touir R., zarrouk A., Oudda H., J. Mater. Environ. Sci. 8 (11) (2017) 3834-3843.   [http://www.jmaterenvironsci.com/Document/vol8/vol8\_N11/403-JMES-3303-Benhiba.pdf](%20http:/www.jmaterenvironsci.com/Document/vol8/vol8_N11/403-JMES-3303-Benhiba.pdf%20)   1. General Purpose Media (BNO) for Growing Fastidious Gram Negative (FGN) Bacteria”), Sameer Barghouthi, Abdallah Bani Odeh and **Ismail Warad**, British Journal of Medicine and Medical Research. 2017.   [http://www.sciencedomain.org/download/MTk2OTRAQHBm.pdf](http://www.sciencedomain.org/download/MTk2OTRAQHBm.pdf%20)   1. Steric repulsion and supramolecular assemblies via two dimension plate by C&mdash;H...O hydrogen bonds in two closely related 2-(benzofuran-2-yl)-2-oxoethyl benzoates. Li Yee Then, C. S. Chidan Kumar, Huey Chong Kwong, Yip-FooWin, Siau Hui Mah, Ching Kheng Quah, S. Naveen and **Ismail Warad**, Acta Cryst. (2017). E73, 1227-1231.   [http://scripts.iucr.org/cgi-bin/paper?S2056989017010556](%20http:/scripts.iucr.org/cgi-bin/paper?S2056989017010556%20)   1. Ethyl 2-(4-methoxyphenyl)-1-methyl- 1Hbenzimidazole-5-carboxylate S. Naveen Vasantha Kumar, Boja Poojary, Naveen Kumar, Nora Jarrar,N. K. Lokanathe and **Ismail Warad** IUCrData (2017). 2, x170438.   <http://scripts.iucr.org/cgi-bin/paper?S2414314617004382>   1. Diethelenetriamine/diamines/copper (II) complexes [Cu(dien)(NN)]Br2: Synthesis, solvatochromism, thermal, electrochemistry, single crystal, Hirshfeld surface analysis and their antibacterial activity, F. Abu Saleemh, S. Musameh, A.Sawafta, P. Brandao, C. J. Tavares, S. Ferdov, A. Barakat, A. Al Ali, M. Al-Noaimi, **I. Warad**, Arabian J. Chem. 2017. (2017) 10, 845–854   <http://www.sciencedirect.com/science/article/pii/S1878535216301885>   1. 5-(4-Methoxyphenyl)-1,3,4-oxadiazol-2-amine, S. Naveen, P. Naveen, Zabiulla, H. R. Manjunath, N. K. Lokanath, Shaukath Ara Khanum and **Ismail Warad**, Acta Cryst. E.  (2016).   <https://doi.org/10.1107/S2414314616018964>   1. ,Ethyl 2-(4-cyanophenyl)-1-(4-fluorobenzyl)-1Hbenzo[d]imidazole-5-carboxylate, S. Madan Kumar,a Kumar Vasantha,b,c Poojary Boja,b K. Byrappad and **Ismail Warad,** IUCrData (2016),   <http://dx.doi.org/10.1107/S241431461601124X>   1. Crystal structure of *N*′-{(*E*)-[4 (Dimethylamino)phenyl]methylidene} propane hydrazide) Hydrate, S. Naveen, Seranthimata Samshuddin, Manuel Rodrigues, Dandavathi Arunkumar, N. K. Lokanath and **Ismail Warad**, Acta Cryst. E. (2016).   <http://scripts.iucr.org/cgi-bin/paper?S2414314616017168>   1. Crystal structure of 3-(thiophen-2-yl)-5-(p-tolyl)-4,5-dihydro-1H-pyrazole-1-carboxamide, Assem Barakat, S. Naveen, N. Renuka, K. Ajay Kumar, Muneer Abdoh, **Ismail Warad** and N. K. Lokanath Z. Kristallogr. NCS (2016) 231(1): 267–269.   <https://www.degruyter.com/view/j/ncrs.2016.231.issue-1/ncrs-2015-0116/ncrs-2015-0116.xml>   1. (E)-3-(2,3-Dichlorophenyl)-1-(4-fluorophenyl)prop-2-en-1-one, S. Naveen, A. Dileep Kumar, K. Ajay Kumar, H. R. Manjunath, N. K. Lokanath and **Ismail Warad**, IUCrData (2016).   <http://dx.doi.org/10.1107/S2414314616018009>   1. Palladium complexes bearing the dipyridyl ligand: synthesis, structural studies, and use in the Heck reaction, **Ismail Warad**, Mohammad Azam, Saud I. Al-Resayes, Mohammad Shahidu Islam Sarfaraz Ahmed, Salim F. Haddad , Res Chem Intermed (2016) 42:379–389.   <http://link.springer.com/article/10.1007/s11164-015-2256-2>   1. Synthesis, spectral, thermal, crystal Structure, Hirschfeld analysis of [*bis*(triamine) Cadimium(II)][Cadimum(IV)tetra‑bromide] complexes and their thermolysis to CdO nanoparticles. **Ismail Warad**, Fuad Al‑Rimawi, Assem Barakat, Saida Affouneh, Naveen Shivalingegowda, Neartur Krishnappagowda Lokanath and Ibrahim M. Abu‑Reidah. *Chemistry Central Journal,(2016) 10:38*   <https://ccj.springeropen.com/articles/10.1186/s13065-016-0183-y>   1. . Molecular structure investigation and biological evaluation of Michael adducts derived from dimedone, Assem Barakat, Abdullah M. Al-Majid, Mohammad Shahidu Islam, **Ismail Warad**, Vijay H. Masand, Sammer Yousuf, M. Iqbal Choudhary, Res Chem Intermed (2016) 42:4041–4053.   <http://link.springer.com/article/10.1007/s11164-015-2257-1>   1. Corrosion Protection of Carbon Steel in Acidic Solution by Using Ylang-Ylang Oil as Green Inhibitor, H. Lgaz, M. Belkhaouda, M. Larouj, R. Salghi, S. Jodeh, **I. Warad**, H. Oudda, A. Chetouani, Mor. J. Chem. 4 N°1 (2016) 101- 111.   <http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5B%5D=3978>   1. Synthesis and Biological Activities of a Novel Naringin based Heterocyclic Derivatives, S. Jodeh, N. Shawarb, N. Jaradat, **I. Warad,** F. Hussein, M. El-Masri, R. Salghi, Mor. J. Chem. 3 N°X (2016) 242-250.   <http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5B%5D=4254>   1. Crystal structure of diethylammonium 5-((4-fluorophenyl)(6-hydroxy-1,3-dimethyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-5-yl)methyl)-1,3-dimethyl-2,6 dioxo-1,2,3,6-tetrahydropyrimidin-4-olate, C23H30FN5O6, Assem Barakat, Hazem A. Ghabbour, Abdullah Mohammed Al-Majid, El Sayed H El Ashry, **Ismail Warad** and Hoong-Kun Fun, Z. Kristallogr. NCS 2016 2016; 231(2): 507–509.   <https://doi.org/10.1515/ncrs-2015-0169>   1. Synthesis, identification, thermal analysis, computational, and antibacterial studies of Z-N'-(5-bromothiophen-2-yl)methylene)nicotinohydrazide, Hussam Yahya, Ahmad Abu-Obaid, Ashraf Sawafta Dyala Abu-Aladel, Ahmad I. Asadi, Rami Shariah, Tasneem Alayed, **Ismail Warad**, Mor. J. Chem. 4 N°1 (2016) 259-267.   <http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5B%5D=4183>   1. Removal of methylene blue from industrial wastewater in Palestine using polysiloxane surface modified with bipyrazolic tripodal receptor, S. Jodeh, J. Amarah1, S. Radi, O. Hamed, **I. Warad,** R. Salghi, A. Chetouni, S. Samhan, R. Alkowni Mor. J. Chem. 4 N°1 (2016)140-156.   <http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5B%5D=4015>   1. Adsorption of lead (II) from aqueous solution by using polysiloxane surfaces modified with ortho-, meta-, or para-nitrophenyl moieties, Shehdeh Jodeh, Bayan Khalaf, Smaail Radi, Said Tighadouini, Rachid Salghi, Sobhi Samhan, **Ismail Warad**, Khalil Azzaoui and Diana Jodeh, Der Pharma Chemica, 2016, 8(2): 444-461.   <http://derpharmachemica.com/vol8-iss2/DPC-2016-8-2-444-461.pdf>   1. The Inhibition Effect of 1-Pentyl Pyridazinium Bromide towards Copper Corrosion in Phosphoric Acid Containing Chloride, A. Bousskri,R. Salghi,A. Anejjar,M. Messali,S. Jodeh,O. Benali,M. Larouj, **I. Warad**, O. Hamedand B. Hammouti. Portugaliae Electrochimica Acta 2016, 34(1), 1-21   <http://dx.doi.org/10.4152/pea.pea.201601001>   1. , Ethyl 2-(4-cyanophenyl)-1-(4-fluorobenzyl)-1Hbenzo[d]imidazole-5-carboxylate, S. Madan Kumar,a Kumar Vasantha,b,c Poojary Boja,b K. Byrappad and **Ismail Warad** Acta Cryst. (2016).   <http://dx.doi.org/10.1107/S241431461601124X>   1. 5-(2,4-Dichlorophenoxy)-3-methyl-1-phenyl-1Hpyrazole-4-carbaldehyd, S. Madan Kumar, N. Manju, Asma, Balakrishna Kalluray, K. Byrappa and **Ismail Warad,** .Acta Cryst. (2016). E   <http://dx.doi.org/10.1107/S2414314616011111>   1. Polymeric Complexes of Cobalt, Iron, and Uranium with 5-(2-Carboxyphenylazo)-8-Hydroxyquinoline (LH2) Ligand and the Possibility of Fluoride Determination in Water. Zaher Barghouthi1 and Sameer Amereih and **Ismail Warad,** Journal of Advances in Chemistry 12, 2016.   <http://cirworld.org/index.php/jac/article/view/5041/4828>   1. Evaluation of potential Residue of *Imidacloprid* and *Abamectin* in Tomato, Cucumber and Pepper Plants after Sprayingusing High Performance Liquid Chromatography (HPLC), S. Jodeh, S. Al Masri, M. Haddad, O. Hamed, D. Jodeh, R. Salghi, S. Radi, J. Amarah, F. El-Hajjaji, **I. Warad**. J. Mater. Environ. Sci. 7 (3) (2016) 1037-1047.   <http://www.jmaterenvironsci.com/Document/vol7/vol7_N3/118-JMES-Jodeh-2016.pdf>   1. New Hydrazine Derivatives as Corrosion for mild steel in phosphoric acid medium. Part B: Theoretical investigation, M.E. Belghiti, Y. Karzazi, S. Tighadouini, A. Dafali, C. Jama, **I. Warad**, B. Hammouti, S. Radi. J. Mater. Environ. Sci. 7 (3) (2016) 956-967.   www.jmaterenvironsci.com%2FDocument%2Fvol7%2Fvol7\_N3%2F111-JMES-2016-Belghiti.pdf&usg=AFQjCNGcEECTtAItsz1m\_lrwXF\_effDFyQ&bvm=bv.128617741,d.d2s   1. N-[(1E)-(3-Bromophenyl)methylene]-N-(2-piperidin-1-ylethyl)amine,  **Ismail Warad**, Yasmin Al-Demeri, Mohammmed Al-Nuri, Mohammed Suleiman, Anas Al-Ali and Sameer Amereih. Molbank 2016, 2016, M903; doi:10.3390/M903   <http://www.mdpi.com/1422-8599/2016/3/M903>   1. Characterization of corrosion products formed on carbon steel in hydrochloric acid medium by 4-(dimethylamino)-1-(6-methoxy-6-oxohexyl)pyridinium bromide, H. Lgaz, A. Anejjar, R. Salghi, S. Jodeh, M. Zougagh, **I. Warad**, M. Larouj and P. Sims, Int. J. Corros. Scale Inhib., 2016, 5, no. 3, 209–231   <http://ijcsi.pro/files/2016/Issue_3/ijcsi-2016-v5-n3-p3-pp209-231.pdf>   1. Adsorption of diclofenac from aqueous solution using Cyclamen persicum tubers based activatedcarbon (CTAC) Shehdeh Jodeh, Fatima Abdelwahab, Nidal Jaradat, **Ismail Warad,** Wade Jodeh, Journal of the Association of Arab Universities for Basic and Applied Sciences, 20 (2016) 32–38.   <http://www.sciencedirect.com/science/article/pii/S1815385214000595>   1. Ala'a Janim, Mohammed Al-Nuri, Abdallah Bani Odeh, Sameer A. Barghouthi, Mohammad Ayesh, Anas Al Ali, Sameer Amereih, **Ismail Warad**, TD-DFT and DFT studies on geometry, spectral, thermal and NMR of N'-(di(pyridin-2-yl)methylene)-2-hydroxybenzohydrazide J. Mater. Environ. Sci. 7 (9) (2016) 3447-3453   <http://www.jmaterenvironsci.com/Document/vol7/vol7_N9/357-JMES-2243-Warad.pdf>   1. Crystal structure of 1'-ethyl­spiro[chroman-4,4'-imidazolidine]-2',5'-dione: a hydantoine derivative , S. B. Benaka Prasad, S. Naveen, M. Madaiah, N. K. Lokanath, **I. Warad** and M. Abdoh, *Acta Cryst.* (2015). E71, o705-o706.   <http://journals.iucr.org/e/issues/2015/10/00/su5194/su5194.pdf>   1. Synthesis, spectral, electrochemical, crystal structure studies of two novel di-m-halo-bis[halo(2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline) cadmium(II)] dimer complexes and their thermolysis to nanometal oxides, **Ismail Warad**, Muneer Abdoh, Naveen Shivalingegowda, Neartur Krishnappagowda Lokanath, Rachid Salghi, Mohammed Al-Nuri, Shehdeh Jodeh, Smaail Radi, Belkheir Hammouti, Journal of Molecular Structure 1099 (2015) 323-329.   <http://www.sciencedirect.com/science/article/pii/S0022286015300727>   1. Ruthenium(II) bipyridine complexes bearing new keto–enol azoimine ligands: Synthesis, structure, electrochemistry and DFT calculations Mousa Al-Noaimi, Firas F. Awwadi, Ahmad Mansi, Obadah S. Abdel-Rahman, Ayman Hammoudeh, **Ismail Warad**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 135 (2015) 828–839.   <http://www.sciencedirect.com/science/article/pii/S1386142514011615>   1. Synthesis, spectral, X-ray single structure, DFT calculations and antimicrobial activities of [Co(II)X2 (dmphen)] (X = Br and SCN2)Mousa Al-Noaimi, Firas F. Awwadi, Salim F. Haddad, Wamidh H. Talib , Shehdeh Jodeh , Smaail Radi ,Taibi Ben Hadda , Muneer Abdoh, S. Naveen, N.K. Lokanath, **Ismail Warad**, Journal of Molecular Structure 1086 (2015) 153–160.   <http://www.sciencedirect.com/science/article/pii/S0022286014012770>   1. Origin and switch of different colors: Thermo-isomerism and crystal structure of (1E,2E)-bis[1-(4-nitrophenyl)ethylidene] hydrazine, Said Tighadouini, Smaail Radi, Loic Toupetb, Muhammad Sirajuddin*,*Taibi Ben Haddad, Mehmet Akkurt, **Ismail Warad,** Yahia N Mabkhot and Saqib Ali, *J. Chem. Sci.* 127, 2015, 2211–2216.   <http://www.ias.ac.in/describe/article/jcsc/127/12/2211-2216>   1. C, N-bipyrazole receptor grafted onto a porous silica surface as a novel adsorbent based polymer hybrid , Smaail Radi, AhmedAttayibat, Mohamed El-Massaoudi, MaryseBacquet, Shehdeh Jodeh, **Ismail Warad,** Salim S. Al-Showiman, Yahia N .Mabkhot, Talanta1 43 (2015)1–6.   <http://www.sciencedirect.com/science/article/pii/S0039914015003094>   1. Electrochemical Evaluation of Linseed Oil as Environment friendly Inhibitor for Corrosion of Steel in HCl Solution L. Afia,R. Salghi,O. Benali,S. Jodeh, **I. Warad,** E. Ebensoand B. Hammouti, *Portugaliae Electrochimica Acta 2015, 33(3), 137-152.*   [http://www.peacta.org/articles\_upload/PEA\_33\_3\_2015\_137\_152.pdf](http://www.peacta.org/articles_upload/PEA_33_3_2015_137_152.pdf%20)   1. Synthesis and characterization of novel 2,2-di(pyridin-2-yl) hexahydropyrimidine and its derivative5,5-dimethyl-1,3-bis[(methylsulfonyl)oxy]-2,2-dipyridin-2-ylhexahydropyrimidine Mohammed Suleiman, Lamees Odeh, Rachid Salghi, Smaail Radi, Belkheir Hammouti, Anas Al-Ali, **Ismail Warad,** Der Pharma Chemica, 7 (2015) 299-304.   <http://derpharmachemica.com/vol7-iss6/DPC-2015-7-6-299-304.pdf>   1. New Diethyl Ammonium Salt of Thiobarbituric Acid Derivative: Synthesis, Molecular Structure Investigations and Docking Studies, Assem Barakat, Abdullah Mohammed Al-Majid, Saied M. Soliman, Gehad Lotfy, Hazem A. Ghabbour, Hoong-Kun Fun, Abdul Wadood **Ismail Warad** and Joseph C. Sloop, Molecules **2015**, 20, 20642–20658.   <http://www.mdpi.com/1420-3049/20/11/19710>   1. POM Analysis of Phytotoxic Agents from *Pistacia integerrima* Stewart, Abdur Rauf, Ghias Uddin, Bina S. Siddiqui, Haroon Khand, Mujeeb-ur-Rehman, **Ismail Warad**, Taibi Ben Hadda, Seema Patel, Ajmal Khan and Umar Farooq, *Current Bioactive Compounds* 2015, *11,* 231-238.   <http://www.ingentaconnect.com/content/ben/cbc/2015/00000011/00000004/art00005>   1. Synthesis of Nano-sized Sulfur Nanoparticles and their Antibacterial Activities, Suleiman M., Al-Masri M., Al Ali A., Aref D., Hussein A., Saadeddin I., **Warad I.,**J. Mater. Environ.Sci. 6 (2) (2015) 513-518.   <http://www.jmaterenvironsci.com/Document/vol6/voll6_N2/60-JMES-1108-2014-Suleiman.pdf>   1. POM analyses of anti-kinase activity of thirteen peptide alkaloids extracted from Zizyphus species Moulay H. Youssoufi, Taibi Ben Hadda, **Ismail Warad,** Muhammad Moazzam Naseer, Yahia Nasser Mabkhot, Ammar Bader, Med Chem Res, 24 (2015) 267-274   <http://link.springer.com/article/10.1007/s00044-014-1117-7>   1. 5,5-Dimethyl-2,2-di(pyridin-2-yl)hexahydropyrimidine, Ahmad. Abu-Obai , Ahmad I. Asadi, Afaf. Alruwaili, Heba. Atieh, Shoqour Khlaif ,Taibi Ben Hadda, Smaail Radi, Belkheir Hammouti, **Ismail Warad**, *Molbank* 2015, M838; doi:10.3390/M838.   <http://www.mdpi.com/1422-8599/2015/1/M838>   1. Crystal structure of (1E,10E)-N,N0(ethane-1,2-diyl)bis[(pyridin-2-yl)-methanimine], Muneer Abdoh, **Ismail Warad**,. Naveen,N. K. Lokanath, Rachid Salghi, Acta Cryst. E71 (2015) o431.   <http://journals.iucr.org/e/issues/2015/06/00/su5142/index.html>   1. Kinetics, Thermodynamics and Adsorption of BTX Removal from Aqueous Solution via Date-Palm Pits Carbonization Using SPME/GC-MS. Shehdeh Jodeh, Rasha Ahmad, Mohammed Suleiman, Smaiil Radi, Khadija M. Emran, Rachid Salghi, **Ismail Warad**, Taibi Ben Hadda, *J. Mater. Environ. Sci. 6(10) (2015) 2853-2870*   <http://www.jmaterenvironsci.com/Document/vol6/vol6_N10/337-JMES-1962-2015-Jodeh.pdf>   1. Evaluation of U238 and Th232 radionuclide activities in kidney gallstone belonging to cancer patient compared with normal one by ɣ-ray spectrometry and EDS M. Mansour, **I. Warad,** G. Saffarini, R. Salghi, S. Jodeh, A. Sawafta, O. Abd-Elkader, *J. Mater. Environ. Sci. 6 (10) (2015) 2717-2721.*   <http://www.jmaterenvironsci.com/Document/vol6/vol6_N10/322-JMES-1961-2015-Mansour.pdf>   1. The micelle formation of cationic and anionic surfactants in aqueous medium: Determination of CMC and thermodynamic parameters at different temperatures, L. Tennouga, A. Mansri, K. Medjahed, A. Chetouani, **I. Warad,** *J. Mater. Environ. Sci. 6 (10) (2015) 2711-2716.*   <http://www.jmaterenvironsci.com/Document/vol6/vol6_N10/321-JMES-1525-2015-Tennouga.pdf>   1. Crystal structure of 3-(thiophen-2-yl)-5-p-tolyl-4,5- dihydro-1H-pyrazole-1-carbothioamide S. Naveen, G. Pavithra, Muneer Abdoh, K. Ajay Kumar, **Ismail Warad** and N. K. Lokanath, Acta Cryst. (2015). E71, 763–765.   <http://journals.iucr.org/e/issues/2015/07/00/su5147/index.html>   1. Efficacité du perydroxan contre deux champignons phytopathogènes *Botrytis cinerea* et *Penicillium digitatum* (Efficiency anti-fungal of perydroxan*forBotrytis cinerea and Penicillium digitatum*), M. C. Elbouchtaoui , B. Chebli, M. Errami, R. Salghi, S. Jodeh, **I. Warad**, O. Hamed, A. El Yamlahi, *J. Mater. Environ. Sci. 6 (7) (2015) 1938-1943.*   <http://www.jmaterenvironsci.com/Document/vol6/vol6_N7/233-JMES-1494-2015-Elbouchtaoui.pdf>   1. Computational POM and DFT Evaluation of Experimental *in-vitro* Cancer Inhibition of Staurosporine-Ruthenium(II) Complexes: the Power Force of Organometallics in Drug Design Taibi Ben Hadda, Zuhal K. Genc, Vijay H. Masand, Nadia Nebbache, **Ismail Warad,** Shehdeh Jodeh, Murat Genc, Yahia N. Mabkhot, Assem Barakat, Hector Salgado-Zamora, *Acta Chim. Slov.* 2015, *62.*   <https://journals.matheo.si/index.php/ACSi/article/view/1357>   1. Removal of Phenol from Olive Industry Liquid Waste Using Polyitaconic Acid, S. JODEH, O. HAMED, M. MOHAMED, T. BEN HADDA, B. HAMMOUTI, R. SALGHI, S. RADI, A. ABU OBAID and **I. WARAD**, *Asian Journal of Chemistry; 26 (2015)* S15-S22   <http://www.asianjournalofchemistry.co.in/user/journal/viewarticle.aspx?ArticleID=26_27_5>   1. Lead preconcentration as rac-(E, E)-N, N′-bis (2-chlorobenzylidene) cyclohexane-1, 2-diamine complexes from water and tobacco samples by dispersive liquid-liquid microextraction. *Journal of Analytical Chemistry*, *70*(6), 691-695   <http://link.springer.com/article/10.1134%2FS1061934815060027>   1. Aqueous extracts of olive roots, stems, and leaves as eco-friendly corrosion inhibitor for steel in 1 MHCl medium, Driss Bouknana, Belkheir Hammouti, Hana Serghini caid, Shehdeh Jodeh, Abdelhamid Bouyanzer, Abdelouahad Aouniti1, **Ismail Warad,** Int J Ind Chem, *10 (2015) 321.*   <http://link.springer.com/article/10.1007%2Fs40090-015-0042-z>   1. Assessment of Unhealthy Diets and Unsafe Foods and its Risks to Human Consumers: Public Health Approaches to prevent Chronic Diseases and Food Poisoning among University of Gezira Students, Sudan (2010 -2013). E. E. Abbas Yousif Ahmed Abusalma, E. Abdalla Khalifa, A. M. Elhassan, M. Errami, R. Salghi, S. Jodeh, **I. Warad,** Mor. J. Chem. 3 (2015) 432-440.   [http://revues.imist.ma/?journal=morjchem&page=article&op=view&path[]=2708](http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5b%5d=2708)   1. Qualitative Study to Assess Plastic Packaging Materials in Gezira State, A. A. Hussein, A.E. Sulieman, A.M. Elhassan,, R. Salghi, H. Bouya, S. Jodeh, **I. Warad,** Mor. J. Chem. 3 N°3 (2015) 594-599.   [http://revues.imist.ma/?journal=morjchem&page=article&op=view&path[]=2958](http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5b%5d=2958)   1. Adsorption of lead and zinc from used lubricant oil using agricultural soil: equilibrium, kinetic and thermodynamic studies, Jodeh S., Odeh R., Sawalhi M., Abu Obeid A., Salghi R., Hammouti B., Radi S., **Warad I.,**J. Mater. Environ. Sci. 6 (2) (2015) 580-591.   <http://www.jmaterenvironsci.com/Document/vol6/voll6_N2/68-JMES-1299-2014-Jodeh.pdf>   1. Study of the corrosion inhibition effect of Pistachio Essential Oils in 0.5 M H2SO4 .R. Salghi, D. Ben Hmamou, O. Benali, S. Jodeh, **I. Warad,** Eno. E. Ebenso, A. Oukacha, S. Tahrouch, B. Hammouti, Int. J. Electrochem. Sci., 10(2015)8403-8411   <http://www.electrochemsci.org/papers/vol10/101008403.pdf>   1. Inhibitive Action of Capparis Spinosa Extract on the Corrosion ofCarbon Steel in an Aqueous Medium of Hydrochloric Acid, R. Salghi, D. Ben Hmamou, O. Benali, S. Jodeh, **I. Warad,** Journal of Mineral Metal and Material Engineering 2015, 1, 15.   <http://www.synchropublisher.com/images/Articles_PDFs/Journal_of_Mineral_Metal_and_Material_Engineering/For_Web-Salghi-MS.pdf>   1. Inhibition Effect of 6-bromo-3-nitro-2-phenylimidazol [1,2-α] pyridine on the Corrosion of C38 Steel in H2SO4 Solution. A. Anejjar, R. Salghi1, S. Jodeh, Y. Karzazi, **I. Warad,** R. Dassanayake 4, O. Hamed, A. Zarouk, B. Hammouti, Maghr. J. Pure &Appl. Sci., 1 N°1 (2015) 25-42.   <http://revues.imist.ma/?journal=mjpas&page=index>   1. Disappearance of Azoxystrobin and difenoconazole in green beans cultivated in Souss Massa valley (Morocco) O. Id El Mouden, M. Errami,R. Salghi, H. Bouy,S. Jodeh, **I. Warad,** O. Hamed, R. Touzani, Maghr. J. Pure &Appl. Sci., 1 N°1 (2015) 11-17.   <http://revues.imist.ma/?journal=mjpas&page=index>   1. Electrochemistry techniques of reducing salinity in water using aerogel carbon electrodes. Shehdeh Jodeh, Rachid Salghi, Jamal Amarah, **Ismail Warad**, Sobhi Samhan, Diana Jodeh, Belkheir Hammouti, Smaail Radi, Arabian Journal of Chemical and Environmental Research,Vol.1 N°2 (2015) 66–75.   <http://www.ajcer.com/index.php/ajcer/article/view/Vol.1%20NO.2%20(2014)%2066-75>   1. Synthesis, Spectral, Theoretical and Thermal Analysis of (Z) bromothiophen-2-yl)methylene)-2-(2,4-dinitrophenyl)hydrazine isomer Hussam Yahya, Ahmad I. Asadi Shehdeh Jodeh, Rami Shareiah Mohammed A. Al-Nuri, Rachid, **Ismail Warad,** Arabian Journal of Chemical and Environmental Research,Vol.2 N2 (2015) 51–57.   <http://www.ajcer.com/index.php/ajcer/article/view/vol2no22015pp51-57>   1. Determination and Assessment of Heavy Metals in Tobacco, Ahmad Abu-Obaid, Shehde Jodeh, Ola Ahmad, R. Salghi, I. **Warad,** Int. J. Chem. 4 (2015) 231 – 241.   <https://staffold.najah.edu/sites/default/files/Determination_and_Assessment_of_Heavy_Metals_in_Tobacco_Sold_and_Smoked_In_Palestinian_Market_0.pdf>   1. Synthesis, electrochemistry, spectral, TG-DTA, crystal structure, DNA binding and oxidation catalyses of [CoX2(dmdphphen)] (dmdphphen is 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline, X= Cl and NCS) complexes, Mousa Al-Noaimi, Mohammed Suleiman, Muneer Abdoh, Iyad Saadeddin, S.Naveen, N. K. Lokanath, Odey Bsharat,**Ismail Warad.** *Bioinorganic Chemistry and Applications,* 2014.   <http://downloads.hindawi.com/journals/bca/aip/914241.pdf>   1. *Synthesis of 1-(Furan-2-yl) imine Functionalized Silica as a Chelating Sorbent and its Preliminary Use in Metal Ion Adsorption*, Said Tighadouini, Smaail Radi, Maryse Bacquet, Jean-Philippe Dacquin,Yahia Nasser Mabkhot, Shehdeh Jodeh, **Ismail Warad**, Mustapha Zaghrioui, Sep. Sci. Tech., 2014.   <http://www.tandfonline.com/doi/abs/10.1080/01496395.2014.959134>   1. Crystal structure of 3-(pyrazin-2-ylamino)-2-benzofuran-1(3H)-one C12H9N3O2, Abdulhakem Betrow, Usama Karama, Mousa Al-Noaimi, Fira Awwadi, Belkheir Hammouti, Smaail Radi,Taibi Ben Haddaand, **Ismail Warad**, Z. Kryst. NCS 229,2014, 385-386   <http://www.degruyter.com/printahead/j/ncrs>   1. Evaluation of *Pelargonium* extract and oil as eco- friendly corrosion inhibitor for steel in acidic chloride solutions and pharmacological properties , [Y. El Ouadi](http://link.springer.com/search?facet-author=%22Y.+El+Ouadi%22),  [A. Bouyanzer](http://link.springer.com/search?facet-author=%22A.+Bouyanzer%22),  [L. Majidi](http://link.springer.com/search?facet-author=%22L.+Majidi%22),  [J. Paolini](http://link.springer.com/search?facet-author=%22J.+Paolini%22),  [J.-M. Desjobert](http://link.springer.com/search?facet-author=%22J.-M.+Desjobert%22), [J. Costa](http://link.springer.com/search?facet-author=%22J.+Costa%22), [A. Chetouani](http://link.springer.com/search?facet-author=%22A.+Chetouani%22), [B. Hammouti](http://link.springer.com/search?facet-author=%22B.+Hammouti%22),  [S. Jodeh](http://link.springer.com/search?facet-author=%22S.+Jodeh%22), [**I. Warad**](http://link.springer.com/search?facet-author=%22I.+Warad%22), [Y. Mabkhot](http://link.springer.com/search?facet-author=%22Y.+Mabkhot%22), [T. Ben Hadda](http://link.springer.com/search?facet-author=%22T.+Ben+Hadda%22), [Research on Chemical Intermediates](http://link.springer.com/journal/11164), 2014   <http://link.springer.com/article/10.1007%2Fs11164-014-1802-7>   1. [Chemical composition and antibacterial activity of essential oil of Nigella sativa seeds](http://onlinelibrary.wiley.com/doi/10.1002/jsfa.2255/full) from Beni Mellal (Morocco): What is the most important part, Essential Oil or the rest of seeds**,** T. Ainane, Z. Askaoui, M. Elkouali, M. Talbi, B. Hammouti, S. Lahsasni, **I. Warad**, T. Ben Hadda, J. Mater. Environ. Sci. 5 (6) (2014) 2017-2020   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N6/250-JMES-1320-2015-Ainane.pdf>   1. Heterocyclic Schiff’s Bases as Novel and New Antiglycation Agents, Saud Resayes, **Ismail Warad**, M. Iqbal Choudhary, Atia-tul-Wahab and Saima Rasheed **US patent, 2014.USA2014/0221429A1.**   <http://www.freepatentsonline.com/y2014/0221429.html>   1. Fate and Mobility of Glyphosate Leachate in Palestinian Soil Using Soil Column**.** S. Jodeh, M. Attallah, M. Haddad, T. B. Hadda, R. Salghi, D. Jodeh, **I. Warad**. J. Mater. Environ. Sci. 5 (6) (2014) 2008-2016   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N6/249-JMES-1313-2014-Jodi.pdf>   1. Isolation of Anticancer Natural Ingredients from Sour Orange, H. M. Odeh, Mohammed A. Al-Nuri, Belkheir Hammouti, Taibi B. Hadda, **Ismail Warad**, Physical Chemical News, 71, **2014**, 90-94.   <http://www.pcnjournal.com/147112_1876.htm>   1. Cis-trans isomerism in Ru(II) complexes incorporating bis(diphenylphosphine) and diamine as co-ligands: Synthesis, Spectroscopic characterization and X-ray crystal structure of dichloromethane solvated cis-diamine bis(diphenylphosphinobutane)ruthenium(II) complex , **Ismail Warad** et al, J. Molec.Struct., 2014.[1076](http://www.sciencedirect.com/science/journal/00222860/1076/supp/C), 724–729.   <http://www.sciencedirect.com/science/article/pii/S0022286014008692?np=y>   1. Design, synthesis, characterization of novel ruthenium(II) catalysts: Highly efficient and selective hydrogenation of cinnamaldehyde to (E)-3-phenylprop-2-en-1-ol Molecules, Hany W. Darwish, Assem Barakat, Ayman Nafady, Mohammed Suleiman, Mousa Al-Noaimi, Belkheir Hammouti, Smaail Radi, Taibi Ben Hadda, Ahmad Abu-Obaid, Mohammad S. Mubarak, **Ismail Warad**, vol. 19, no. 5, pp. 5965–5980, 2014   <http://www.mdpi.com/1420-3049/19/5/5965>   1. POM Analyses of Raltegravir Derivatives: A New Reflection Enlighting the Mechanism of HIV-Integrase Inhibition, Taibi Ben Hadda, Vijay Masand, Naziyanaz B. Pathan, Ali Parvez, **Ismail Warad**, Usama Shaheen, Ammar Bader and Mohamad Aljofan , Research on Chemical Intermediates 2014.   <https://link.springer.com/article/10.1007/s11164-014-1616-7?sa_campaign=email/event/articleAuthor/onlineFirst>   1. Hemi-synthesis of three new armed antibiotics analogs of Calcimycin (A23187) and determination of theirs acidity constants by potentiometric method, Mimouni M., Melhaoui A., El Mounsi I., Mabkhot Y.N., **Warad I.,** Shaheen U., Bader A., Abd-Elhady M.I.S.M., Ben Hadda T, Journal of Materials and Environmental Science, vol. 5, no. 4, pp. 1244–1255, 2014   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N4/154-JMES-860-2014-Mimouni.pdf>   1. Anti-corrosive Properties and Quantum Chemical Study of (Methoxybenzylidene)Aniline and (4-Methoxybenzylidene)-4-Nitroaniline Coating on Mild Steel in Molar Hydrochloric. H. Elmsellem, H. Nacer, F. Halaimi1, A. Aounit, I. Lakehal, A .Chetouani, S. S. Al-Deya5, **I. Warad**, R. Touzani, B. Hammouti, Int. J. Electrochem. *Sci.,* 9 (2014)5328 - 5351.   <http://www.electrochemsci.org/papers/vol9/90905328.pdf>   1. Structural studies on Cd(II) complexes incorporating di-2-pyridyl ligand and the X-ray crystal structure of the chloroform solvated DPMNPH/CdI2 complex, **Ismail Warad**, Mohammad Azam, Saud I. Al-Resayes, Mohd. Shahnawaz Khan, Mohammed Al-Nuri1, Shehdeh Jodeh, Ahmad Husein, Salim F. Haddad, Belkheir Hammouti, Mousa Al-Noaimi, Inorganic Chemistry Communications, 2014, 43, 155-161.   <http://www.sciencedirect.com/science/article/pii/S1387700314000926>   1. Physicochemical characterization of olive oil mill wastewaters in the eastern region of Morocco Journal of Materials and Environmental Science, Bouknana D., Hammouti B., Salghi R., Jodeh S., Zarrouk A., **Warad I.**, Aouniti A., Sbaa M., vol. 5, no. 4, pp. 1039–1058, 2014   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N4/129-JMES-758-2014-Bouknana.pdf>   1. Characterization and biological activities of two copper(II) complexes with dipropylenetriamine and diamine as ligands, Mousa AL-Noaimi, Mohammad I. Choudhary, Firas F. Awwadi, Wamidh H. Talib, Taibi Ben Hadda, Sammer Yousuf, Ashraf Sawafta, **Ismail Warad**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 127, 2014, 225-230.   <http://www.sciencedirect.com/science/article/pii/S1386142514002030>   1. Antimicrobial activity of naturally occurring antibiotics monensin,Lasalocid and their metal complexes, Mimouni M., Khardli F.Z., **Warad I.,** Ahmad M., Mubarak M.S., Sultana S., Hadda T.B, Journal of Materials and Environmental Science, vol. 5, no. 1, pp. 207–214, 2014   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N1/24-JMES-562-2014-Mimouni.pdf>   1. Design and Structural Studies of Diimine/CdX2 (X = Cl, I) Complexes based on 2,2-dimethyl-1,3-diaminopropane ligand, **Ismail Warad**, et al, Journal of Molecular Structure 1062 (2014) 167–173.   <http://www.sciencedirect.com/science/article/pii/S0022286014000180>   1. Effect of Harmal Extract on the Corrosion of C-steel in Hydrochloric Solution, L. Bammou, M. Belkhaouda, R. Salghi, O. Benali, A. Zarrouk, S. S. Al-Deyab, **I. Warad,** H. Zarrok, B. Hammouti, Int. J. Electrochem. Sci., 9 (2014) 1506 – 1521.   <http://www.electrochemsci.org/papers/vol9/90301506.pdf>   1. Ruthenium(II) bipyridine complexes bearing quinoline-azoimine (NNN) tridentate ligands: synthesis, spectral characterization, electrochemical properties and single-crystal X-ray structure analysis, Mousa Al-Noaimi, Obadah S. Abdel-Rahman, Ismail I. Fasfous, Mohammad El-khateeb, Firas F. Awwadi, **Ismail Warad**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 125 (2014) 375–383   <http://www.sciencedirect.com/science/article/pii/S1386142514000961>   1. Crystal structure of 2-phenoxyethyl 2-hydroxybenzoate, C15H14O4Z. Ayman Nafady, Ahmad Hasein, Muneer Abdoh, S. Madan Kumar, K. J. PampaV, N. K. Lokanath and **Ismail Warad**, Kryst. NCS229 (2014) 41–42.   <http://www.degruyter.com/view/j/ncrs.ahead-of-print/ncrs-2014-0029/ncrs-2014-0029.xml>  .   1. Heterotrimetalic Ru(ІІ)/Pd(II) Complexes:Synthesis, Characterization, Crystal Structure Determination, DFT, and Antimicrobial, Mousa Al-Noaimi, Ayman Nafady, **Ismail Warad**, Rwaida Alshwafy, Ahmad Husein, Wamidh H. Talib, Taibi Ben Hadda, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 122 (2014) 273–282   <http://www.sciencedirect.com/science/article/pii/S1386142513013693>   1. Computational POM evaluation of experimental in vitro Trypanosoma cruzi and Mycobacterium tuberculosis inhibition of heterocyclic-2-carboxylic acid (3-cyano-1,4-dinoxidequinoxalin2-yl)amide derivatives , Taibi B. Hadda, Hasna Bendaha, Javed Sheikh, Mushtaq Ahmad, **Ismail Warad,** Medicinal Chemistry Research 2014, Volume 23, Issue 4, pp 1956-1965   <http://link.springer.com/article/10.1007%2Fs00044-013-0781-3>   1. Trans/cis isomerization of [RuCl2{H2C=C(CH2PPh2)2)}(diamine)] complexes: Synthesis, spectral, crystal structure and DFT calculations and catalytic activity in the hydrogenation of a,b-unsaturated ketones, **Ismail Warad,** Mousa Al-Noaimi, Obadah S. Abdel-Rahman, Firas F. Awwadi, Belkheir Hammouti, Taibi B. Hadda, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 117 (2014) 250–258.   <http://www.sciencedirect.com/science/article/pii/S1386142513008937>   1. Synthesis, NMR and Single Crystal analysis of Novel 2,9-dimethyl-4,7-diphenyl[1,10]phenanthrolinediium, **Warad I.,** Haddad S.F., Al-Noaimi M., Al-Nuri M.A., Hammouti B., Hadda T.B.,J. Mater. Environ. Sci. 5 (2) (2014) 470-47   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N2/56-JMES-584-2014-Warad.pdf>   1. Synthesis of 1-(Pyrrol-2-yl)imine modified silica as a new sorbent for the removal of toxic metals from aqueous solutions. Radi S.,  Tighadouini S., El Massaoudi M., Ben Hadda T., Zaghrioui M., Bacquet M., Dacquin J.-P., **Warad I.,** Journal of Materials and Environmental Science, vol. 5, no. 4, pp. 1280–1287, 2014   <http://www.jmaterenvironsci.com/Document/vol5/vol5_N4/157-JMES-886-2014-Radi.pdf>   1. Adsorption and Kinetics Study of Abamectin and Imidacloprid in Greenhouse Soil in Palestine, Jodeh S., Khalaf O., Abu Obaid A., Hammouti B., Hadda T.B., Jodeh W., Haddad M., **Warad I.,** *J. Mater. Environ. Sci. 5 (2) (2014) 571-580.* <http://www.jmaterenvironsci.com/Document/vol5/vol5_N2/69-JMES-709-2014-Jodeh.pdf> 2. Adsorption of Some Organic Phenolic Compounds Using Activated Carbon from Cypress Products. S. Jodeh, N. Basalat, A. Abu Obaid, B. Hammouti, T. B. Hadda, W. Jodeh, **I. Warad**, Journal of Chemical and Pharmaceutical Research, 2014, 6(2):713-723.   <http://jocpr.com/vol6-iss2-2014/JCPR-2014-6-2-713-723.pdf>   1. Trans/cis isomerization of [RuCl 2 {H 2 C C (CH 2 PPh 2) 2)}(diamine)] complexes: Synthesis, spectral, crystal structure and DFT calculations and catalytic activity in the hydrogenation of α, β-unsaturated ketones, **Ismail Warad**, Mousa Al-Noaimi, Obadah S. Abdel-Rahman, Firas F. Awwadi, Belkheir Hammouti, and Taibi B. Hadda, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 17 (2104), 250–258.   <http://www.sciencedirect.com/science/article/pii/S1386142513008937>   1. one step synthesis of NiO nanoparticles through solid-state thermal decomposition of novel*Aqua*-dmphen-NiCl2Complex, Assem Barakat,Mousa Al-Noaimi,Mohammed Suleiman,Abdullah S. Aldwayyan, Belkheir Hammouti,Taibi Ben Hadda,Salim F. Haddad,Ahmed Boshaalaand, **Ismail Warad** ` Int. J. Mol. Sci., 2013, *14*(12), 23941-23954.   <http://www.mdpi.com/1422-0067/14/12/23941>   1. Nanoparticles: Synthesis, Characterizations and their Applications, Mohammed Suleiman, Anas Al Ali, Ayman Hussein, Belkheir Hammouti, Taibi B. Hadda, Ahmad Boshaala, **Ismail Warad**Sulfur J. Mater. Environ. Sci.5 (6) (2013) 1029-1033.   <http://www.jmaterenvironsci.com/Document/vol4/vol4_N6/139-JMES-554-2013-Warad.pdf>   1. Crystal structure of 4,5-dichloro-anthracen-9(10*H*)-one, C14H8Cl2O, Karama, U, Sultan, MA, Saudi Arabia,Ghabour, HA, Fun, HK, **Warad, I.** Z. Kristallogr. NCS 228 (2013) 405-406 / DOI 10.1524/ncrs.2013.0211   <http://www.degruyter.com/view/j/ncrs.2013.228.issue-3/ncrs.2013.0211/ncrs.2013.0211.xml?format=INT>   1. Synthesis, Identification and NMR of New *Trans*-dichloro-piperazine *bis*(ether-phosphine)ruthenium(II) Complex. Mohammed Suleiman, Mousa Al-Noaimi, Belkheir Hammouti, Smaail Radi, Taibi Ben Hadda, Ahmed Boshaala, **Ismail Warad**, Mor. J. Chem. 1 N°2 (2013) 29-32   [http://revues.imist.ma/?journal=morjchem&page=article&op=view&path[]=1933](http://revues.imist.ma/?journal=morjchem&page=article&op=view&path%5b%5d=1933)   1. New catalysts for the chemoselective reduction of α, β-unsaturated ketones: Synthesis, spectral, structural and DFT characterizations of mixed ruthenium (II) complexes containing 2-ethene-1, 3-bis (diphenylphosphino) propane and diamine ligands, **Ismail Warad**, Mousa Al-Noaimi,Obadah S. Abdel-Rahman,Murad AlDamen,Belkheir Hammouti, and Taibi B. Hadda*, Polyhedron*63 (2013), 182–188.   <http://www.sciencedirect.com/science/article/pii/S0277538713005494>   1. N′-[(E)-2-Chlorobenzylidene] thiophene-2-carbohydrazide, **Ismail Warad,** Mousa Al-Noaimi, Belkheir Hammouti, and Taibi B. Hadda, Acta Crystallographica Section E. (2013) E 69 , o1442   <http://journals.iucr.org/e/issues/2013/09/00/bh2481/index.html>   1. Synthesis, structure, spectroscopic properties, electrochemistry, and DFT correlative studies of trans-[Ru(P-P)2Cl2] complexes, Mousa Al-Noaimi, **Ismail Warad,** Obadah S. Abdel-Rahman, Firas F. Awwadi, Salim F. Haddad:Taibi B. Hadda, Polyhedron62(2013) 110-119.   [**http://www.sciencedirect.com/science/article/pii/S0277538713004750**](http://www.sciencedirect.com/science/article/pii/S0277538713004750)   1. Di­chlorido(2,9-di­methyl-1,10-phenanthroline-κ2N,N′)mercury(II), **Warad, I**., Al-Noaimi, M., Haddad, S.F., Othman, R. (2013) Acta Crystallographica Section E: Structure Reports Online, 69 (**2013**) m109.   <http://journals.iucr.org/e/issues/2013/02/00/br2220/index.html>   1. Trans/cis isomerization of [RuCl2(diphosphine)(diamine)] complexes: Synthesis, X-ray structure and catalytic activity in hydrogenation, **Warad, I**., Alhussen, H., Alanazi, H., Mahfouz, R., Hammouti, B., Al-Dosari, M.A., Al-Far, R., Ben Hadda, T, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy105, (2013), 466–473.   <http://www.sciencedirect.com/science/article/pii/S1386142512012437>   1. Synthesis and Characterization of CdO Nanoparticles Starting from Organometalic Dmphen-CdI2 complex, A.S. Aldwayyan, , F.M. Al-Jekhedab, M. Al-Noaimi, B. Hammouti, , T. B. Hadda, M. Suleiman, **I. Warad,**Int. J. Electrochem. Sci., 8 (2013), 10506-10514.   <http://staff.najah.edu/sites/default/files/paper29august2013warad.pdf>   1. rac-(E,E)-N,N′-Bis(2-chloro­benzyl­­idene)cyclo­hexane-1,2-di­amine, **Ismail Warad,**Mousa Al-Noaimi,Salim F. Haddad, Yasmin Al-Demeri and Belkheir HammoutiActa Crystallographica Section E: Structure Reports Online, 69 (**2013**) o1075.   <http://journals.iucr.org/e/issues/2013/07/00/zs2261/index.html>   1. Novel di-μ-chloro-bis[chloro(4,7-dimethyl-1,10-phenanthroline)cadmium(II)] dimer complex: synthesis, spectral, thermal, and crystal structure studies, **Ismail Warad**, Maha Al-Ali, Belkheir Hammouti, Research on Chemical Intermediates 39 (2013) 2451-2461.   <http://link.springer.com/article/10.1007/s11164-012-0771-y>   1. X-ray single-crystal structure of a novel di-μ-chloro-bis[chloro(2,9-dimethyl-1,10-phenanthroline)nickel(II)] complex: synthesis, and spectral and thermal studies, **Ismail Warad,** Belkheir Hammouti, Taibi Ben Hadda, Ahmed Boshaala, Salim F. HaddadResearch on Chemical Intermediates, .(**2013**) in press   <http://link.springer.com/article/10.1007/s11164-012-0917-y>   1. X-ray single crystal, spectral, thermal analysis and 31P{1H} NMR of ruthenium(II)/ether-phosphine/1,2-diphenyl-1,2-ethanediamine complexes, **Warad I.,** Research on Chemical Intermediates, .(2013) 39, 1481-1490.   <http://link.springer.com/article/10.1007/s11164-012-0706-7>   1. Synthesis, spectral, thermal, and a crystalline structure of complexes containing [MeC(CH2PPh2)3Cu(I)], **Warad, I.,** Abd-Elkader, O.H., Boshaala, A., Al-Zaqri, N., Hammouti, B., Ben Hadda, T. Research on Chemical Intermediates, 39 (2013) 721-732.   <http://link.springer.com/article/10.1007/s11164-012-0592-z>   1. Metal ions as Antitumor Complexes-Review, **Warad I**., Eftaiha A.F., Al-Nuri M.A., Husein A.I., Assal M., Abu-Obaid A., Al-Zaqri N., Ben Hadda T. Hammouti B., J. Mater. Environ. Sci. 4 (4) (2013) 542-557.   <http://www.jmaterenvironsci.com/Journal/vol4-4.html>.   1. Copper(II)Oxide Nanostructures: Synthesis, Characterizations and their Applications   Review, **Ismail Warad**, J. Mater. Environ. Sci. 4(5) (**2013**) 822-827.  [http://www.jmaterenvironsci.com/Document/vol4/vol4\_N5/109-JMES-494-2013-Warad.pdf](%20%20%20%20%20%20%20%20http:/www.jmaterenvironsci.com/Document/vol4/vol4_N5/109-JMES-494-2013-Warad.pdf)   1. 2-Phen­­oxy­ethyl benzoate, Mousa Al-Noaimi,**Ismail Warad**, Salim F. Haddad, Ahmad Husein and Rami Shareiah, Acta. Cryst. E69, (**2013**) m789.   <http://journals.iucr.org/e/issues/2013/05/00/zs2256/index.html>.   1. Synthesis, characterization, bioactivity, and POM analyses of isothiochromeno[3,4-e][1,2]oxazines, Bennani, B., Kerbal, A., Baba, B.F., Daoudi, M., **Warad, I**., Aljofan, M., Alafeefy, A.M., Masand, V., Hadda, T.B.Medicinal Chemistry Research, (2013) 4798–4809.   . <http://link.springer.com/article/10.1007/s00044-012-0392-4>   1. Tautomeric origin of dual effects of N1-nicotinoyl-3-(4′-hydroxy-3′-methyl phenyl)-5-[(sub)phenyl]-2-pyrazolines on bacterial and viral strains: POM analyses as new efficient bioinformatics’ platform to predict and optimize bioactivity of drugs, Hadda, T.B., Ali, M.A., Masand, V., Gharby, S., Fergoug, T., **Warad, I.** Medicinal Chemistry Research, 22 (2013), 1438-1449.   <http://link.springer.com/article/10.1007/s00044-012-0143-6>   1. Computational POM and 3D-QSAR evaluation of experimental in vitro HIV-1-Integrase inhibition of amide-containing diketoacids, Hadda, T.B., Fathi, J., Chafchaouni, I., Masand, V., Charrouf, Z., Chohan, Z.H., Jawarkar, R., Fergoug, T., **Warad, I**. Medicinal Chemistry Research, 22 (2013), 1456-1464.   <http://link.springer.com/article/10.1007/s00044-012-0120-0>  Fluorescence of some tri- and tetra-dentate pyrazol-derived stable ligands, Hadda, T.B., Fergoug, T., Masand, V., **Warad, I**.Research on Chemical Intermediates, 39 (2013), 2963–2969.  <http://link.springer.com/article/10.1007/s11164-012-0809-1>   1. POM as a quick bioinformatic platform to select flavonoids and their metabolites as potential and efficient HIV-1 integrase inhibitors, Hadda, T.B., Fergoug, T., **Warad, I.,** Masand, V., Sheikh, J. Research on Chemical Intermediates, 39 (2013), 1227-1244.   <http://link.springer.com/article/10.1007/s11164-012-0679-6>   1. Inhibitive effect of imidazopyridine derivative towards corrosion of C38 steel in hydrochloric acid solution, A. Ghazoui, R. Saddik, B. Hammouti, A. Zarrouk, N. Benchat, M. Guenbour, S. S. Al-Deyab, **I. Warad**, Research on Chemical Intermediates, 39 (2013)2369-2377.   <http://link.springer.com/article/10.1007%2Fs11164-012-0763-y>   1. Theoretical approach to the corrosion inhibition efficiency of some quinoxaline derivatives of steel in acid media using the DFT method, Zarrouk, A., El Ouali, I., Bouachrine, M., Hammouti, B., Ramli, Y., Essassi, E.M., **Warad, I**., Aouniti, A., Salghi, Research on Chemical Intermediates, 39 (2013) 1125-1133.   <http://link.springer.com/article/10.1007%2Fs11164-012-0671-1>   1. Quantum chemical study of some triazoles as inhibitors of corrosion of copper in acid media, Zarrouk, A., Zarrok, H., Salghi, R., Hammouti, B., Touir, R., **Warad, I**., Bentiss, F., Abou El Makarim, H., Benchat, N, Research on Chemical Intermediates, 39 (2013) 1279-1289.   <http://link.springer.com/article/10.1007%2Fs11164-012-0684-9?LI=true>   1. Inhibition of C-steel Corrosion in Hydrochloric Solution withChenopodium Ambrorsioides Extract, M. Belkhaouda, L. Bammou, A. Zarrouk, R. Salghi, E. E. Ebenso, H. Zarrok, B. Hammouti, L. Bazzi, **I. Warad**, Int. J. Electrochem. Sci., 8 (2013) 7425-7436.   <http://www.electrochemsci.org/papers/vol8/80507425.pdf>   1. One-Pot Combination of the Wittig Olefination with Bromination and Oxidation Reactions, Karama, U., Mahfouz, R., Al-Othman, Z**., Warad, I.,** Almansour, Synthetic Communications (2013)43 893-898.   <http://www.tandfonline.com/doi/full/10.1080/00397911.2011.614712>   1. Computational POM and 3D-QSAR evaluation of experimental in vitro HIV-1-Integrase inhibition of amide-containing diketoacids. Hadda, Taibi Ben, Jihane Fathi, Imane Chafchaouni, Vijay Masand, Zoubida Charrouf, Zahid H. Chohan, Rahul Jawarkar, Teffaha Fergoug, and **Ismail Warad.** Medicinal Chemistry Research 22, no. 3 (2013): 1456-1464.   <http://www.jmcdd.org/>   1. Synthesis and structural characterization of asymmetric mononuclear ruthenium (II) complexes derived from 2-(1,2,3-thiadiazol-4-yl)pyridine and azoimine ligands, Mousa Al-Noaimi, Mohammad El-khateeb,, **Ismail Warad**, Salim F. Haddad, Inorganica Chimica Acta, 400, (**2013**) 20–25   <http://www.sciencedirect.com/science/article/pii/S002016931300042X>   1. 2,2-Bis(pyridin-2-yl)-1,3-diazinane, Salim F. Haddad, **Ismail Warad**,Shehdeh Jodeh and Taibi Ben Hadda, Acta Crystallographica Section E, 69 (**2013**), o569.   <http://journals.iucr.org/e/issues/2013/04/00/nk2200/index.html>   1. Taibi Ben Hadda, Rahima Mouhoub, Rahul Jawarkar , Vijay Masand, **Ismail Warad**,Medicinal Chemistry Research 22 (**2013**), 2437-2445.   <http://link.springer.com/content/pdf/10.1007%2Fs00044-012-0238-0>   1. Mild Steel Corrosion Inhibition by Various Plant Extracts in 0.5 M Sulphuric acid, N S Patel, S Jauhariand, G N Mehta, S. S. Al-Deyab, **I. Warad**, B. Hammouti, Int. J. Electrochem. Sci., 8 (**2013**) 6033-6046.   <http://www.electrochemsci.org/papers/vol8/80202635.pdf>.   1. Synergistic effect of AM-4VP-9 copolymer and iodide ion on corrosion inhibition of mild steel in 1 M H2SO4, A. Mansri, B. Bouras, B. Hammouti, I. Warad, A. Chetouani Research on Chemical Intermediates 39 (**2013)** 1753-1770.   <http://link.springer.com/article/10.1007%2Fs11164-012-0710-y>.   1. POM theoretical calculations and experimental verification of the antibacterial potential of 5-hydroxy-4-(substituted-amino)-2(5H)-furanones, Taibi B. Hadda, Teffaha Fergoug, **Ismail Warad,** Research on Chemical Intermediates 39 (**2013)** 1963-1971.   <http://link.springer.com/article/10.1007%2Fs11164-012-0729-0>.   1. Synthesis and structural characterization of Pd(II) complexes derived from perimidine ligand and their in vitro antimicrobial studies, Mohammad Azam, **Ismail Warad**, Saud I. Al-Resayes, Nabil Alzaqri, Mohammad Rizwan Khan, Raghavaiah Pallepogu, Sourabh Dwivedi,Javed Musarrat, Mohammad Shakir. Journal of Molecular Structure, 1047, (2013) 48-54.   <http://www.sciencedirect.com/science/article/pii/S0022286013003840>.   1. Synthesis and structural characterization of Pd(II) complexes derived from perimidine ligand and their in vitro antimicrobial studies, H. Zarrok, A. Zarrouk, R. Salghi, M. Assouag, B. Hammouti, H. Oudda, S. Boukhris, S. S. AL-Deyab, and **I. Warad**, Der Pharmacia Lettre, **2013**, 5 (2):43-53.   <http://scholarsresearchlibrary.com/dpl-vol5-iss2/DPL-2013-5-2-43-53.pdf>   1. Mild steel corrosion inhibition by various plant extracts in 0.5 M sulphuric acid, N S Patel, S Jauhariand, G N Mehta, S. S. Al-Deyab, **I. Warad**, B. Hammouti, J. Electrochem. Sci.,8(**2013**), 2635-2655.   <http://electrochemsci.org/papers/vol8/80202635.pdf>   1. Impact of Metal Nature on Bioactivity of Metal Chelates of Monensin Antibiotic: Synthesis and Anti-tubercular Activity of Metal-Monensin Complexes, Mostafa Mimouni, Bouchra Filali Baba, **Ismail Warad**, Vijay Masand, Abdelali Kerbal, And Taibi Ben Hadda Journal of Medicinal Chemistry and Drug Discovery , 4 (2013) 7-16.   <http://www.jmcdd.org/2013/04/12/issn-no/>   1. Synthesis, Physicochemical Properties, and in vitro Antibacterial Screening of Palladium(II) Complexes Derived from Thiosemicarbazone, Mohammad Azam, **Ismail Warad**, SaudI. Al-Resayes, M. Rafiq Siddiqui, M. Oves, Chemistry & Biodiversity, 10 (2013) 1109–1119.   <http://onlinelibrary.wiley.com/doi/10.1002/cbdv.201200128/abstract>   1. Copper (II)-oxide nanostructures: Synthesis, characterizations and their applications–review., Mohammed Suleiman,Muath Mousa, Amjad Hussein, Belkheir, Hammouti, Taibi B.Hadda,**Ismail Warad** J. Mater. Environ. Sci. 5**(2013)** 792-797.   <http://www.jmaterenvironsci.com/Document/vol4/vol4_N5/109-JMES-494-2013-Warad.pdf>   1. Synthesis, spectral, thermal, X-ray single crystal of new RuCl 2 (dppb) diamine complexes and their application in hydrogenation of Cinnamic aldehyde**, Ismail Warad**, Hanan Al-Hussain, Rawhi Al-Far, Refaat Mahfouz, Belkheir Hammouti, Taibi Ben Hadda, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 95 (2012) 374.   <http://www.sciencedirect.com/science/article/pii/S1386142512003435>   1. 5, 5-Dimethyl-2, 2-bis (pyridin-2-yl)-1, 3-diazinane, **Ismail Warad**, Afaf Alruwaili, SaudI. Al-Resayes, M. Iqbal Choudhary and Sammer Yousuf, Acta Cryst. E68, (2012) o1786.   <http://scripts.iucr.org/cgi-bin/paper?RZ2740>   1. A novel Ru (II) complex derived from hydroxydiamine as a potential antitumor agent: Synthesis and Structural Characterization. Mohammad Azam, **Ismail Warad,** Saud Al-Resayes, Mohammad Shakir, M. F. Ullah, Aamir Ahmad, Fazlul H. Sarkar, Inorganic Chemistry Communications 20,(2012) 252.   <http://www.sciencedirect.com/science/article/pii/S138770031200130X>   1. Novel Pd (II)–salen complexes showing high in vitro anti-proliferative effects against human hepatoma cancer by modulating specific regulatory genes, Mohammad Azam, Zahid Hussain, **Ismail Warad**, SaudI. Al-Resayes, Mohd. Shahnawaz Khan, Mohammad Shakir, Agata Trzesowska-Kruszynska and Rafal Kruszynski, Dalton Trans., 41, (2012) 10854.   <http://pubs.rsc.org/en/content/articlehtml/2012/dt/c2dt31143g>   1. Synthesis and Characterization of Hybrid Materials Consisting of n-octadecyltriethoxysilane by Using n-Hexadecylamine as Surfactant and Q0 and T0 Cross-Linkers, **Ismail Warad**, Omar Abd-Elkader H, Saud Al-Resayes, Ahmad Husein, Mohammed Al-Nuri, Ahmed Boshaala, Nabil Al-Zaqri, and Taibi Ben Hadda, Int. J. Mol. Sci. 13, (2012) 6279.   <http://www.mdpi.com/1422-0067/13/5/6279/htm>   1. cis-[1, 4-Bis (diphenylphosphanyl) butane-κ2P, P′] dichlorido (cyclohexane-1, 2-diamine-κ2N, N′) ruthenium (II) dichloromethane monosolvate, **Ismail Warad**, Acta. Cryst. E68, (2012) m563.   <http://scripts.iucr.org/cgi-bin/paper?LH5442>   1. [1, 2-Bis (diphenylphosphanyl) ethane-κ2P, P′] dichloridopalladium (II) dimethyl sulfoxide monosolvate, **Ismail Warad**, Abdullah S. Aldwayyan, Fahad M. Al-Jekhedab, M. Iqbal Choudhary and Sammer Yousuf, Acta Cryst. E68, (2012) m984.   <http://journals.working.iucr.org/e/issues/2012/07/00/hb6864/>   1. Syntheses, Physico‐Chemical Studies and Antioxidant Activities of Transition Metal Complexes with a Perimidine Ligand, Mohammad Azam, **Ismail Warad,** Saud Al-Resayes, Maryam Zahin, Iqbal Ahmad an Mohammad Shakir, Z. Anorg. Allg. Chem. 638 (2012), 1–7.   <http://onlinelibrary.wiley.com/doi/10.1002/zaac.201100561/full>   1. Inhibition of corrosion of pure iron by quaternized poly (4-vinylpyridine)-graft-bromodecane in sulphuric acid, A. Chetouani1, K. Medjahed, S.S. Al-Deyab, B. Hammouti1, **I. Warad**, A. Mansri, A. Aouniti, Int. J. Electrochem. Sci., 7 (2012) 6025.   <http://www.electrochemsci.org/papers/vol7/7076025.pdf>   1. Kinetic studies of isothermal decomposition of unirradiated and γ-irradiated gallium acetylacetonate: new route for synthesis of gallium oxide nanoparticles, R.M. Mahfouz, Kh.M. Al-Khamis, M.R.H. Siddiqui, N.S. Al-Hokbany, **Ismail Warad** and N.M. Al-Andis, Progress in Reaction Kinetics and Mechanism, 37, (2012) 249.   <http://www.ingentaconnect.com/content/stl/prk/2012/00000037/00000003/art00002>   1. A theoretical investigation on the corrosion inhibition of copper by quinoxaline derivatives in nitric acid solution, A. Zarrouk, H. Zarrok, R. Salghi, B. Hammouti, S.S. Al-Deyab, R. Touzani1, M. Bouachrine, **Ismail Warad**, T. B. Hadda, Int. J. Electrochem. Sci., 7 (2012) 6353.   <https://staffold.najah.edu/sites/default/files/A_Theoretical_Investigation_on_the_Corrosion_Inhibition_of_Copper_by_Quinoxaline_Derivat_ives_in_Nitric_Acid_Solution.pdf>   1. Structural and Theoretical Studies of 2-amino-3-nitropyridine, N. S. Al-hokbanya, A. Dahyb, **Ismail Warad**, M. Abd El-Salam, S. T. Akriched, M. Rzaiguid, U. Karamaa, and R. M. Mahfouz, E-Journal of Chemistry, 9(4), (2012) 2191.   <https://www.hindawi.com/journals/jchem/2012/895240/abs/>   1. Nano-gold supported nickel manganese oxide: synthesis, characterisation and evaluation as oxidation catalyst. M. Rafiq H. Siddiqui, **Ismail Warad**, S. F. Adil, R. M. Mahfouz, Abdullah Al-arifi, Oxidation Communications 35 (2) (2012), 476.   <https://www.researchgate.net/profile/Ismail_Warad/publication/233778655_nano-gold_SuPPorted_nicKel_manganeSe_oxide_SyntheSiS_characteriSation_and_evaluation_aS_oxidation_catalySt/links/09e4150b6609436296000000.pdf>   1. Crystal structure of trans-dichloro (1, 4-bis-(diphenylphosphino) butane)-(N, N'-1, 2-dimethyl-ethanediamine) ruthenium (II), C32H40Cl2N2P2Ru. , Hanan Al-Hussain, **Ismail Warad**, Hamda Al-Enzi, Khalid Al-Farhan and Mohamed Ghazzali, Z. Kristallogr. NCS 227 (2012) 379.   <https://www.degruyter.com/view/j/ncrs.2012.227.issue-3/ncrs.2012.0192/ncrs.2012.0192.xml>   1. **(**2,9-Dimethyl-1,10-phenanthroline-[kappa]2N,N')bis­(thio­cyanato-[kappa]S)mercury(II), **Ismail Warad,**Taibi Ben Hadda, Belkheir Hammouti and Salim F. Haddad, Acta Cryst.E68, (2012) o1259.   <https://doaj.org/article/db234cd970674bfeac698f4c8a5a9c03>   1. ISOLATION AND ANTIFUNGAL EVALUATION OF JUGLANS REGIA L EXTRACTS, Ahmad I. Husein, Mohammed A. Al-Nuri, Nidal A. Zatar, Waheed Jondi, Mohammed S. Ali-Shtayeh, **Ismail Warad**, International Journal of Research and Reviews in Applied Sciences13 (2012) 665-678.   <http://www.arpapress.com/Volumes/Vol13Issue2/IJRRAS_13_2_34.pdf>   1. Synthesis, spectroscopic characterization and catalytic significance of Palladium (II) complexes derived from 1, 1 bis (diphenylphosphinomethyl) ethane**, I. Warad**, Mohammad Azam, Usama Karama, Saud Al-Resayes, Ahmed Aouissi, Balkair Hammouti Journal of Molecular Structure, 1002, 107-112, 2011   <http://www.sciencedirect.com/science/article/pii/S0022286011005412>   1. Hemilability of ether-phosphine in ruthenium (II) complexes: 31P {1H}-nuclear magnetic resonance (NMR), fast atom bombardment-mass spectroscopy (FAB-MS) and extended X-ray absorption fine structure spectroscopy (EXAF) to confirm the open-closed behaviour, **I. Warad**, Saud Al-Resayes,Balkheir HammoutiHemilability of Ether-phosphine in Ruthenium(II) Complexes: 31P{1H}-NMR, FAB-MS and EXAF to Confirm the Open-Closed Behavior, Int. Journal of Phys. Scie. 6(31) 7183-7190 2011.   <http://www.academicjournals.org/journal/IJPS/article-abstract/E9432B822746>   1. (2,9-Dimethyl-1,10-phenanthroline-κ2 N,N′)diiodidocadmium, **I. Warad** et al. Acta Crystallographica Section E: Structure Reports Online2011, E67, pp. M1650.   <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3238587/>   1. ITemperature Effect, Activation Energies and Thermodynamics of Adsorption of ethyl 2-(4-(2-ethoxy-2-oxoethyl)-2-p-Tolylquinoxalin-1(4H)-yl) Acetate on Cu in HNO3 Ori, Hammouti, B., Zarrouk, A., Al-Deyab, S. S., & **Warad, I.**  Journal of chemistry, 27, 23-31, 2011.   <http://www.orientjchem.org/dnload/B-Hammouti-A-Zarrouk-SS-AlDeyab-and-I-Warad/OJCV027I01P23-31.pdf>   1. Reactions of Some New Thienothiophene Derivatives , Yahia Nasser Mabkhot, Abdullah Mohammad Al-Majid, Abdullah Saleh Alamary, **Ismail Warad** and Yamin Sedigi, Molecules16, 5142-5148, 2011.   <http://repository.taibahu.edu.sa/bitstream/handle/123456789/3953/Reactions%20of%20some%20new%20thienothiophene%20derivatives..pdf?sequence=1>   1. Kinetic analysis for non-isothermal decomposition of unirradiated and γ-irradiated indium acetyl acetonate, Mahfouz, R., Siddiqui, M., Alshehri, S. **Warad, I.,** Material Research, 14(1), 2011, 7-10.   <http://www.scielo.br/scielo.php?pid=S1516-14392011000100003&script=sci_arttext>   1. Synthesis, structural chemistry and antimicrobial activity of -(-) borneol derivative , Al-Farhan, K.A., **Warad, I.,**Al-Resayes, S.I., Fouda, M.M., Ghazzali, M., Central European Journal of Chemistry, 8, pp. 1125-1131, 2011.   <https://www.degruyter.com/downloadpdf/j/chem.2010.8.issue-5/s11532-010-1093-0/s11532-010-1093-0.pdf>   1. N-containing organic compound as an effective corrosion inhibitor For Copper in 2M HNO3: Weight Loss and Quantum Chemical Study. A. Zarrouk, B. Hammouti, H. Zarrok, **I. Warad**, M. Bouachrine , Der Pharma Chemica, 2011, 3 (5): 263-27.   <http://www.derpharmachemica.com/pharma-chemica/ncontaining-organic-compound-as-an-effective-corrosion-inhibitor-for-copper-in-2m-hno3--weight-loss-and-quantum-chemical.pdf>   1. A pyrrolidine phosphonate derivative as corrosion inhibitor for steel in H2SO4 solution , Bouklah, O. Krim, M. Messali, B. Hammouti1, A. Elidrissi1 and **I Warad**, Der Pharma Chemica, 2011, 3 (5): 283-293.   <http://www.derpharmachemica.com/pharma-chemica/a-pyrrolidine-phosphonate-derivative-as-corrosion-inhibitor-for-steel-in-h2so4-solution.pdf>   1. Kinetics and Mechanism of Oxidation of L-Cysteine by Bis-3-di-2-pyridylketone-2-thiophenylhydrazoneiron(III) Complex in Acidic Medium, **Warad, I.**, Al-Nuri, M., Abu-Eid, M., Al-Othman, Z., Al-Resayes, S., Diab N., E-Journal of Chemistry, 2010, 7(S1), P 527-535.   <http://downloads.hindawi.com/journals/jchem/2010/659749.pdf>   1. Crystal structure of cis-dichloro(1,2-R,R-diaminocyclohexane)-bis[1,3-(diphenylphosphino)-propane]ruthenium(II), RuCl2(C27H26P2)(C6H14N2), **Warad** **I.,** Zeitschrift fur Kristallographie - New Crystal Structures2010, 225(4), 753-755.   <https://www.degruyter.com/view/j/ncrs.2010.225.issue-4/ncrs.2010.0332/ncrs.2010.0332.xml>   1. Trans-dichloro-2,3-naphthalenediaminebis[(2-methoxyethyl)-(diphenyl) phosphine]ruthenium(II) complex, **Warad, I.,** MolBank2010 (3), pp. 696-670.   <http://www.mdpi.com/1422-8599/2010/3/M696/htm>   1. Crystal structure of N-[(methylsulfonyl)oxy]-/Y-((E)-2-(methyl-sulfonyl)oxy]imino-l,2-diphenylethylidene)amine, C16H16N 2O6S2, **Warad, I.,** et al, Zeitschrift fur Kristallographie - New Crystal Structures2010 225 (3), pp. 611-612.   <https://www.degruyter.com/view/j/ncrs.2010.225.issue-3/ncrs.2010.0267/ncrs.2010.0267.xml>   1. Model Free Approach for Non-Isothermal Decomposition of Un-Irradiated and Irradiated Silver Acetate: New Route for Synthesis of Ag2O, Nanoparticles, Siddiqui, M., Alshehri, S. **Warad, I.,** Mahfouz, R Int. J. Mol. Sci. 2010, 11, 3600-3609.   <http://www.mdpi.com/1422-0067/11/9/3600/html>   1. Trans-Dichlorido(2,2-dimethyl-propane-1,3-diamine)-bis-(triphenyl-phosphane)ruthenium(II), Khanfar, M.A., **Warad, I.,**Aldamen, M.A., Acta Crystallographica Section E: Structure Reports Online 2010, 66 (7), pp. m731-m732.   <http://journals.working.iucr.org/e/issues/2010/07/00/tk2679/>   1. Supported and non-supported ruthenium(II)/phosphine/[3-(2-aminoethyl) aminopropyl]trimethoxysilane complexes and their activities in the chemoselective hydrogenation of trans-4-phenyl-3-butene-2-al, **Warad, I.** Molecules 2010, 15 (7), pp.4652-4669.   <http://www.mdpi.com/14203049/15/7/4652?utm_source=TrendMD&utm_medium=cpc&utm_campaign=Molecules_TrendMD_0>   1. Comparative study of new pyridazine derivatives towards corrosion of copper in nitric acid: Part-1, Zarrouk, A., Chelfi, T., Dafali, A., Hammouti, B., Al-Deyab, S.S., **Warad, I.**,Benchat, N., Zertoubi, M International Journal of Electrochemical Science 2010, 5 (5), pp. 696-705.   <https://www.researchgate.net/profile/Ismail_Warad/publication/233778800_Comparative_Study_of_new_Pyridazine_Derivatives_Towards_Corrosion_of_Copper_in_Nitric_Acid_Part-1/links/0912f50b6665c4e848000000.pdf>   1. E.-R.Synthesis and spectrosopic identification of hybrid 3-(Triethoxysilyl) propylamine phosphine ruthenium(II) complexes, **Warad, I.,** Al-Resayes, S., Al-Othman, Z., Al-Deyab, S.S., Kenawy, Molecules 2010, 15 (5), pp3618-3633.   <http://www.mdpi.com/14203049/15/5/3618?utm_source=TrendMD&utm_medium=cpc&utm_campaign=Molecules_TrendMD_1>   1. A.1H 13C NMR investigation of E/Z-isomerization around C{double bond, long}N bond in the trans-alkene-Pt(II)imine complexes of some ketimines and aldimines, Bakkar, M., Monshi, M., **Warad, I.,** Siddiqui, M., Bahajaj, Journal of Saudi Chemical Society 2010, 14 (2), pp. 165-174.   <http://www.sciencedirect.com/science/article/pii/S1319610310000220>   1. Synthesis and characterization of novel inorganic-organic hybrid Ru(II) complexes and their application in selective hydrogenation, **Warad, I.,** Al-Othman, Z., Al-Resayes, S., Al-Deyab, S.S., Kenawy, Molecules 2010 15 (2), pp. 1028-1040.   <http://www.mdpi.com/1420-3049/15/2/1028>   1. N0-(Di-2-pyridylmethxlene)benzohydrazide, **I. Warad**, et al Acta Cryst. E65, o1597, (2009).   <http://scripts.iucr.org/cgi-bin/paper?NG2595>   1. Synthesis, Characterization, Crystal Structure and Chemical behavior of [1,1-bis(diphenylphosphinomethyl)ethene]Ruthenium(II) Complex Toward Primary Alkylamine Addition, **I. Warad**, M. Siddiqui, S. Al-Resayes, Abdulrahman, Al-Warthan and R. Mahfouz, Trans. Met. Chem. 34, 347, (2009).   <https://link.springer.com/article/10.1007%2Fs11243-009-9201-4>   1. New Technique to Prepare Ruthenium Nanoparticles Starting from Organometallic Complexes**, I. Warad,** Abdualrhman Al–Warthan, R. Mahfouz, S. Al-Reseyes and N. Al-Zaqri , KAIN, 147-148 (2009). 2. Oxidation Decomposition of Selected Diamine(Ether-Phosphine)-Ruthenium(II) Complexes and ComparativeSolidState Structural Studies Using EXAFS Investigations and X-ray Diffraction Method, **I. Warad**,. J. King. Saud. Uni. Science 1, 20, 1-11, (2008).   <https://ksupress.ksu.edu.sa/En/Pages/IssueArticles.aspx?JournalID=345>   1. Synthesis, Support and Spectral Analysis of Novel Amine and Diamine-Ruthenium(II) Complexes Starting from Triphenylphosphine-Ruthenium(II) Precursor, **I. Warad**, G. Al-Sousi, M. Al-Nuri, S. Al-Gobari, Y. Mabkhoot, S. Al-Reasyes, Z. Issa, J. Saudi. Chem. Soc., 12, 95-105 (2008).   <https://www.researchgate.net/publication/233933865_SYNTHESIS_SUPPORT_AND_SPECTRAL_ANALYSIS_OF_NOVEL_AMINE_AND_DIAMINERUTHENIUM%28II%29_COMPLEXES_STARTING_FROM_TRIPHENYLPHOSPHINE-RUTHENIUM%28II%29PRECURSOR>   1. Synthesis and Spectroscopic Characterization of Palladium(II) Complexes Using Hybrid (O,P) Hemilabile Ligand: Pd(2-Ph2PCH2CH2OCH3)2 and [Pd(1-Ph2PCH2CH2OCH3)2diamine].2BF4, **I. Warad,**  J. Saudi. Chem. Soc., 12, 183-194 (2008).      1. "Synthesis, Characterization and Reactivity of Diamine-bis(triphenylphosphine)ruthenium(II) Complexes as Catalysts for Selective and Direct Hydrogenation of Cyanamid Aldehyde**, I. Warad**, N. Diab, S. Al-Resayes, R. Mahfouz, Y. Mabkhoot, I. Mkhalid, Arabian J. Chem. 1, 93-110, (2008).   [http://www.academia.edu/download/24964238/volume-4\_english.pdf#page=219](http://www.academia.edu/download/24964238/volume-4_english.pdf%23page=219)   1. Palladium(II)/diamine/phosphine and phosphine-free complexes as catalysts for Heck reactions Arabian, **I. Warad**, J. Chem. 1, 93-110, (2008). 2. Comparative Study between the Catalytic Activity of Supported and Monomeric Ruthenium(II) Complexes Toward Selective Hydrogenation under Identical Conditions**, I. Warad**, J. King. Saud. Uni. Science 1, 21, (2008). 3. Kinetic Studies for the Nonisothermal Decomposition of Un-irradiated and γ-irradiated Ruthenium(III) Acetylacetonate R. Mahfouz, Sh. Al-Ahmari**, I. Warad**, S. Al-Reasyes, M. Siddiqui, K. Raslan, A. Al-Otaibi, Rad. Eff. Def. Sold, 163, 115-125, (2008).   <http://www.tandfonline.com/doi/abs/10.1080/10420150701414272>   1. Synthesis and crystal structure of cis-dichloro-1,2-ethylenediamine-bis[1,4-(diphenylphosphino)butane]ruthenium(II) dichloromethane disolvate, RuCl2(C2H8N2) (C28H28P2). 2CH2Cl2, **I. Warad**, Z. Kristallogr. NCS 222, 415-417 (2007).   <https://www.degruyter.com/downloadpdf/j/ncrs.2007.222.issue-4/ncrs.2007.0176/ncrs.2007.0176.pdf>   1. Synthesis And Characterization of 1,3-Diamine(Phosphine)-Ruthenium(Ii) Complexes Using Monodentate And Bidentate Phosphine Ligands, **I. Warad**, J. Saudi. Chem. Soc. 10, 15-24 (2007). 2. Synthesis and Characterization of some Antifungal Active Hydrazones from Combined of Several Functionalized Hydrazides with Di-2-Pyridyl Ketone, M. Al-Nuri, A. Haroun, **I. Warad**, R. Mahfouz, S. Al-Reasyes, J. Saudi. Chem. Soc. 11, 313-322 (2007).   <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.503.5477>   1. Crystal structure of Neutral 1,3-propanediamine-bis[(2-metho-xyethyl)(diphenyl)phosphine]-trans-dichlororuthenium(II) [RuCl2(C15H17OP)2-(C3H10N2)] Complex, **I. Warad,** S. Al-Reasyes, K. Eichele, *Zeitschrift für Kristallographie*, NCS 221, 275-277 (2006).   [https://www.degruyter.com/view/j/ncrs.2006.221.issue-1 4/ncrs.2006.221.14.275/ncrs.2006.221.14.275.xml](https://www.degruyter.com/view/j/ncrs.2006.221.issue-1%204/ncrs.2006.221.14.275/ncrs.2006.221.14.275.xml)   1. Phosphorus-31 NMR and FAB-Mass Spectroscopes to Confirm Synthesis of Diamine(Diphosphine)Ruthenium(II) Complexes Starting from Diamine(Ether-Phosphine)Ruthenium(II) Complexes via Phosphine Ligands Exchanged, **I. Warad**, S. Al-Reasyes, J. Saudi. Chem. Soc. 10, 285-294 (2006). 2. Combinatorial Micro electrochemistry. Part 4: Cyclic Voltammetric Redox Screening of Homogeneous Ruthenium(II) Hydrogenation Catalysts, E. Lindner, Z-L. Lu, H. A. Mayer, B. Speiser, C. Tittel, **I. Warad**, Electrochemistry Communications, 7, 1013-1020 (2005).   <http://www.sciencedirect.com/science/article/pii/S1388248105001852>   1. V. Krishnan1, Da-Y. Wu, I. Warad, E. Wendel, M. Bauer, E. Lindner, H. Bertagnolli, Hasylab Report (2005).   [www-asylab.desy.de/science/annual\_reports/2004\_report/part1/contrib/41/11974.pdf](C:\\Users\\ASUS\\Desktop\\cv warad\\Warad CV.doc)   1. Synthesis, Characterization and NMR Studies of Novel1 Hemilabile Neutral and Dicationic Palladium(II) Complexes: Pd(h2-Ph2PCH2CH2OCH3)2 and Pd(h1-Ph2PCH2CH2O-CH3)2diamine by using Ether-phosphine Ligand, **I. Warad**, S. Al-Gharabli, A.Al-Alabadi, A. Rayyan, J. Saudi. Chem. Soc. 9, 507 -518 (2005).   <https://inis.iaea.org/search/search.aspx?orig_q=RN:38108013>   1. Supported Organometallic Complexes part 39: Cationic Diamine(ether–phosphine)ruthenium(II) Complexes as Precursors for the Hydrogenation of trans-4-phenyl-3-butene-2-one, **I. Warad**, E. Lindner, K. Eichele, H. A. Mayer, Inorg. Chim. Acta 357, 1847-1853 (2004).   <http://www.sciencedirect.com/science/article/pii/S0020169303007461>   1. V. Krishnan, M. Seiler, M. P. Feth, **I. Warad,** S. Al-Gharabli, E. Lindner, H. Bertagnolli, Hasylab Report (2004).   [www-hasylab.desy.de/science/annual\_reports/2002\_report/part1/contrib/41/7054.pdf 31-](file:///C:\Users\ASUS\Desktop\cv%20warad\Warad%20CV.doc)     1. Supported Organometallic Complexes Part 34: Synthesis and Structures of an array of Diamine(ether-phosphine)ruthenium(II) Complexes and their Application in the Catalytic Hydrogenation of,trans-4-phenyl-3-butene-2-one, **I. Warad**, K. Eichele, E. Lindner, H. A. Mayer, Inorg. Chim. Acta, 350, 49 (2003).   <http://www.sciencedirect.com/science/article/pii/S0020169302015359>   1. Asymmetric hydrogenation of an unsaturated ketone by Diamine(ether–phosphine)ruthenium(II) complexes and lipase-catalyzed kinetic resolution: a consecutive approach, E. Lindner, A. Ghanem, **I. Warad,** K. Eichele, H. A. Mayer, V. Schurig, Tetraheron:Asymmetry 14, 1045 (2003).   <http://www.sciencedirect.com/science/article/pii/S0957416603001290>   1. Supported organometallic complexes Part. Synthesis, characterization, and catalytic application of a new family of diamine (diphosphine)ruthenium(II) complexes*,* E. Lindner, **I. Warad,** K. Eichele, H. A. Mayer, J. Organomet. Chem. 665, 176 (2003).   <http://www.sciencedirect.com/science/article/pii/S0022328X02021125>   1. Bis(methoxyethyldimethylphosphine)ruthenium(II) Complexes as Transfer Hydrogenation Catalysts, Z. Lu, K. Eichele, **I. Warad,** H. A. Mayer, E. Lindner, Z. Jiang, V. Schurig, *Z.* Anorg. Allg. Chem. 629, 1308 (2003).   <http://onlinelibrary.wiley.com/doi/10.1002/zaac.200300067/full>   1. Diaminediphosphineruthenium(II) Interphase Catalysts for the Hydrogenation of α,β-Unsaturated Ketones, E. Lindner, S. Al-Gharabli, **I. Warad**, H. A. Mayer S. Steinbrecher, E. Plies, M. Seiler, H. Bertagnolli, Z. Anorg. Allg. Chem. 629, 161 (2003).   <http://onlinelibrary.wiley.com/doi/10.1002/zaac.200390010/full> |
| Teaching Courses | **KSU in Saudia Aribia**  **Undergraduate**  **1- 101 Chem General Chemistry / Science and Engineering Colleges- First year Students**  **2- 105 Chem General Chemistry / Medical College- Second year Students**  **3- 425 Chem Mechanism in inorganic chemistry**  **4- 428 Chem Coordination Chemistry**  **5- 325 Chem. Actinide and lanthanide chemistry**  **6- 421 Chem Organometallic chemistry**  **7- 221 Chem Main element Chemistry**  **8- 321 Chem Transition metals chemistry**  **Graduated**  ***Master***  **1- 521 Chem Organometallic Chemistry**  **2-600 Chem Topics in inorganic Chemistry**  ***Doctoral***  **1-623 chem Special topics in inorganic and catalysts**  **2-625 chem Advance inorganic Materials**  **3-620 chem Advance inorganic and Coordination Chemistry**  **NNU in Palestine**  **Undergraduate**   1. **Organic chemistry level 1 , 2 and 3 Chem. Dept and Eng. Chem dept.** 2. **Specrtoscopy in Organic chemistry Chem. Dept** 3. **Special topics in org. chem Chem. Dept** 4. **Basic Organic chemistry/Medicine college /Pharmacy college** 5. **Organic chemistry2/ Medicine college /Pharmacy college**   **Graduated**  ***Master***   1. **Advance material in org. chem.** 2. **Organometalics**   ***Doctoral***   1. **Mechanism of organic reactions** 2. **Heterocyclic Chem.**   **QU**  **Undergraduate**   1. **Advance organometicic 1 chem 221** 2. **Reserch in Organometalic chem 462** 3. **Advance organometicic 2 chem 321** |
| **As supervisor** | I supervised until now 3 Ph.D students, 18 master students; I was also examiner for more 50 graduate students. |
| **projects** | I performed more than 20 projectsduring my stay in KSA , now I have 2 projects running at NNU |
| **Editor** | I am editor for several international journals |
| **References** | -Prof. Ekkehard Lindner, Inorganic Chemistry Eberhard-Karls-Univ. Tuebingen (**Germany**), [ekkehard.lindner@uni-tuebingen.de](mailto:ekkehard.lindner@uni-tuebingen.de)  -Prof. Hermann Mayer, Inorganic Chemistry Eberhard-Karls-Univ.Tuebingen (**Germany**), [hermann.mayer@uni-tuebingen.de](mailto:hermann.mayer@uni-tuebingen.de)  -Prof. Wolfgang Voelter, Organic Chemistry Eberhard-Karls-Univ. Tuebingen (**Germany**), [wolfgang.voelter@uni-tuebingen.de](mailto:wolfgang.voelter@uni-tuebingen.de)  -Prof. Klaus Albert, Organic Chemistry Eberhard-Karls-Univ. Tübingen (**Germany**), [klaus.albert@uni-tuebingen.de](mailto:klaus.albert@uni-tuebingen.de)  - Prof. Saud. Ibraheem Al-Resayes, Inorganic Chemistry, Chemistry Department, King Saud University, **(KSA)**. [sreasyes@ksu.edu.sa](mailto:sreasyes@ksu.edu.sa)  - Prof. Avelino Corma Instituto de Tecnología Química, UPV-CSIC Universidad Politécnica de Valencia Avda. de los Naranjos s/n 46022 Valencia–SPAIN, Tel.: 34 96 3877800, New Fax: 34 96 3879444, e-mail:[acorma@itq.upv.es](file:///C:\Users\ASUS\Desktop\cv%20warad\Warad%20CV.doc) |
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