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Education

B.Sc. In General Chemistry Birzeit University on February 1980

Ph.D. In Analytical Chemistry from University of Kent at Canterbury, England, Awarded on February 1984.

Thesis: Some Manual And Automated Optical Methods In The Selection Chemical Analysis of Europium, Terbium and Uranium.

Employment History

1999- 2008: Director of Chemical, Biological and Drug Analysis Center. An-Najah N. University.

1993-Present: Associate Professor, Chemistry Department, An-Najah N. University.

1985-1993: Assistant Professor, Chemistry Department ,An-Najah N. University.

1984-1985: Assistant Professor, College of Science and Technology, Abu-Deis, Jerusalem.

Research

Research Interests:

1. Spectrophotometric determination of metal ions.

2. Spectrofluorimetric determination of metal ions.
3. Separation and determination of active components from medicinal plants.
- 4- Separation and determination of food additives using chromatographic techniques.
- 5- Analysis of pharmaceutical products.
- 6- Quantitative and qualitative determination of food products.
- 7- Toxicological analysis
- 8- Food analysis and determination of nutritional values.
- 9- Quantitative determination of oil-soluble vitamins (A and D)
- 10- Quantitative determination of pesticides in food products using GC/MS technique

Research Groups

1- Ahmad Ibrahim Husein, Mohammed Saleem Ali-Shtayeh, Waheed Jebril Jondic, and Mohammed Abd-Alah Al-Nuri

2- Ahed H. Zyoud and Hikmat S. Hilal

List of publications

1. A Selective Spectrophotometric Determination of Europium In Mixtures With Other Lanthanides, Yttrium and Scandium. S.J. Lyle and N.A. Zatar, Anal. Chem. Acta, 135 (1982) 327-332.
2. Automatic Spectrophotometric Method For The Determination Of Europium In Mixture With Yttrium and Other Lanthanides. S.J. Lyle and N.A. Zatar, Fresenius Z Anal. Chem, 313 (1982)313-315.
3. Automatic Spectrophotometric Method Involving Liquid-Liquid Extraction For The Determination Of Europium In The Presence Of Other Lanthanides, Yttrium And Scandium. S.J. Lyle and N.A. Zatar, Fresenius Z Anal. Chem 314 (1983) 463- 465.
4. Automated Spectrofluorometric Determinations Of Terbium and Dysprosium In Rare Earth Mixtures. S.J. Lyle and N.A. Zatar, Anal. Proc. 20 (1983) 616-618.
5. A Comparative Study Of Some Methods For The Spectrofluorometric Determination Of Terbium In Aqueous Solutions Containing Other Lanthanides and Yttrium. S.J. Lyle and N.A. Zatar, Anal. Chem. Acta, 153 (1983) 229-236.
6. Automated Spectrofluorimetric Method For The Determination Of Dysprosium As Its Tertiary Complex With EDTA and Tiron. S.J.Lyle and N. A. Zatar, Anal. Chim. Acta, 162 (1984) 305-313.
7. Spectrofluorimetric Determination Of Terbium As Its Ternary Complex With EDTA and Trion.

Composition Studies, Optimization Of Fluorescence Output and Conversion To A Flow System. S.J. Lyle and N.A. Zatar, Anal. Chem. Acta, 162 (1984) 305-313.

8. An Exploratory Study Of The Indirect Fluorimetric Determination Of Uranium (VI) By Energy Transfer and Measurement Of Fluorescence Emission By Europium (III) S.J. Lyle and N.A. Zatar, Talanta, 33 (1986) 355-327.

9. Some Arylidene -2- Pyridylhydrazone Derivatives As Reagents For Spectrophotometric Determination Of Palladium (II). N.A. Zatar, A.A. Zuhri., M. Abu Eid and F. Mahmoud, Anal. Let. 19 (1986) 1881-1891.

10. Simultaneous Spectrophotometric Determination Of Iron (II) and Iron (III) In Mixtures Using Di-2-Pyridyl Ketone Benzoylhydrazone. N.A. Zatar, A.Z. Abu-Zuhri, M.A. Al-Nuri, F.M. Mahmoud and A. A. Abu-Obaid, Spectroscopy letters, 22(9) (1989) 1203-1214.

11. Spectrophotometric Determination Of Cobalt With Di-2-Pyridyl Ketone Benzoylhydrazone. Nidal A. Zatar, Mohammed A. Al-Nuri, Maher Abu-Eid, Mohammed Hannoun, Ali Z. Abu-Zuhri, Shukri Khalif and Mustaf Khamis. Spectroscopy Letters, 24 (9) (1991) 1145-1152.

12. Spectrophotometric Determination Of Cobalt In Aqueous Solution Using Di-2-Pyridyl Ketone Derivatives. Mohammed A. Al-Nuri, Maher Abu-Eid A. Zatar, Shukri Khalaf, Mohammed Hannoun, and Mustaf Kaims. Analytica Chim. Acta, 259 (1992) 175-179.

13. Spectrophotometric Determination Of Uranium In Ores Using Di-2- Pyridyl Ketone Hydrazone Derivatives. Maher Abu-Eid, Nidal A. Zatar, Mohammad A. Al-Nuri, Mustafa Khamis and Shukri Khalif. Spectroscopy Letters, 25(4) (1992) 585-592

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14. Spectrophotometric Determination Of Uranium With Di-2- Pyridyl Ketone Benzoylhydrazone. Maher Abu-Eid, Nidal A. Zatar, Mohammad A. Al-Nuri, Mustafa Khamis, Mohammad Hannon and Shukri Khalif. An-Najah Univ. J. Res.,

15. Donor and Acceptor Number Effects For The Solvatochromic Behaviour Of Bis-(2,2- Bipyridyl)-Bis-Cyanoiron(II) In Binary Aqueous Mixtures. B. Farah Shreydeh and N.Zatar. Monatshefte Fur Chemie 125 (1994) 655-659.

16. Plumbagin, A Naturally Occurring Naphthoquinone: Its Isolation, Spectrophotometric Determination In Roots, Stems and Leaves In Plumbago Europaea L. Mohammad A.Al-Nuri, Mohammad Hannon, Nidal A. Zatar, Maher Abu-Eid, Waheed J. Al-Jondi, Ahmad 1. Hussein Mohammed S. Al-Shtayeh. Spectroscopy Letters, 27(4) (1994) 409-416.

17. Catalytic Method For The Determination Of Trace Amounts Of Mercury Uptaken By Broad Beans Plants. Bassem F. Shraydeh, Maher Abu-Eid, Nidal A. Zatar, Ismat Shakshier, and Mustaf Khamis. Main Group Metal Chemistry, 19 (2) (1996) 103-106.

18. A Sensitive Catalytic Method For The Determination Of Copper By Its Catalytic Effect On The Potassium Bromate Indigo Carmine Reaction. B.F. Shreydeh, M.A. Abu-Eid N.A. Zatar, A.Abu-Obeid, M. Khamis, K. Khamis, K. Kanan, Instr.Science & Technology, 22(4) (1994) 355-363.

19. Emodin, A Naturally Occurring Anthraquinone: Its Isolation And Spectrophotometric Determination In Rumex Cyprius Plant. M. A. Al-Nuri, Nidal A. Zatar, Mahar Abu-Eid, Mohammad A. Hannoun, Waheed I. Al-Jondi and Ahmad I. Uussein. Spectroscopy Letters, 29(8) (1996) 1539-1543 .
20. Spectrophotometric Determination of Some Aromatic Amines. Nidal A. Zatar. Ali A. Abu-Zuhri, Asma A. Abu-Shaweesh. Talanta, 47 (1998) 883-890.
21. Spectrophotometric Determination of Nitrite and Nitrate Using Phosphomolybdenum Blue Complex. Nidal A. Zatar, Maher A. Abu-Eid, Abdullah F. Eid. Talanta, 50 (1999) 819-826.
22. Voltametric and Spectrophotometric Determination of Nizatidine in Pharmaceutical Formulations. Ali Z. Abu-Zuhri, Nidal A. Zatar, Raqi M. Shubietah, Hala H. Arafat. Mikrochimica Acta, 134 (2000) 153-160.
23. Spectrophotometric Determination of Tiopronin in Pharmaceutical Preparations. Maher A. Abu-Eid, Nidal Zatar, Tamara Kamal and Mohammad Hannoun. An-Najah Univ. J. Res. (N. Sc.), 15 (2001) 145-157.
- 24- Quantitative Determination of Three Textile Reactive Dyes in Ground Water, Sewage Water and Soil Using Voltammetric and HPLC Techniques, Nidal Zatar, Ali Abu Zuhri, Naser Tayem, An-Najah Univ. J. Res. (N. Sc.), 18(2) (2004) 173-193.
- 25- Quantitative Determination of Chlorpyrifos and Penconazole Residues in Grapes Using Gas Chromatography/ Mass spectrometry, Yacoub Batta , Nidal Zatar, Safa Sama'neh, Journal of Food Technology, 3(3) (2005) 284-289.
- 26- Detection of Endosulfan Residues in the Soil of Western Jordan Valley, Yacoub Batta, Nidal Zatar, Nader Sadeq, Jordan Journal of Agricultural Science, Vol. 2 (1) (2006) 57-64.
- 27- Dye-effect in TiO₂ catalyzed contaminant photo-degradation: Sensitization vs. charge-transfer formalism, H.S. Hilal, L.Z. Majjad , N. Zatar , A. El-Hamouz, ScienceDirect, Solide state science 9 (2007) 9-15.
- 28- Simultaneous determination of seven synthetic water-soluble food colorants by ion-pair reversed-phase high-performance liquid chromatography, Nidal A. Zatar, Journal of Food Technology, 5 (3) (2007) 220-224.
- 29- CdS-sensitized TiO₂ in phenazopyridine photo-degradation: Catalyst efficiency, stability and feasibility assessment, Ahed H. Zyouda, Nidal Zatar, Iyad Saadeddina, Cheknane Ali b, DaeHoon Parkc, Guy Campetc, Hikmat S. Hilal a,* Journal of Hazardous Materials 173 (2010) 318–325.
- 30- Adsorption characteristics of endosulfan pesticide in three soils in Palestine, Shehdeh Jodeh, Karbalaa Jaradat and Nidal Zatar, Land Contamination & Reclamation, 18 (3), (2010) 303-311.
- 31- Silica-supported CdS-sensitized TiO₂ particles in photo-degradation of phenazopyridine: Assessment of efficiency, stability and recovery, Ahed H. Zyoud, Hikmat S. Hilal & Nidal Zatar, Accepted in the 2nd International Workshop on Advanced Material, {IWAM-09} at Ras Al khaimah centre for advanced materials (RAK CAM). 21-23 Feb (2010)

32- Anthocyanin (Natural dye) sensitizing a wide band gap semiconductors for photo-degradation processes, Ahed Zyoud, Nidal Zaatar, Muath H. Hilal and Hikmat S. Hilal , Chemistry Research & the Palestinian Industry Conference, 4-5 April 2012, Hebron university, Palestine.

33- Alternative natural dyes in water purification: Anthocyanin as TiO₂-sensitizer in methyl orange photo-degradation, Ahed Zyoud, Nidal Zaatar, Iyad Saadeddin, Muath H. Helal, Guy Campet, Moulki Hakim, DaeHoon Park, Hikmat S. Hilal, Solid State Sciences, 13, (2011) 1268-1275.

34- 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, IJRRAS, 13(2) (2012) 655-660.

35- Isolation and antifungal evaluation of rumex cyprius murb extracts, Ahmad I. Husein, Mohammed A. Al-Nuri, Nidal A. Zatar, Waheed Jondi, Mohammed S. Ali-Shtayeh, J. Chem. Chem. Eng, 6 (2012) 547-550.

36- Phthalate derivatives are naturally occurring in Arum Palaestinum, Ahmad , Ahmad I. Husein, Mohammed S. Ali-Shtayeh, Rana M. Jamous, Waheed J. Jondi, Nidal A. Zatar. International Journal of Current Research and Acadimec Review. 2(9) (2014) 195-203.

37- In vitro antioxidant and antitumor activities of six selected plants used in the Traditional Arabic Palestinian herbal medicine, Ahmad I. Husein, Mohammed S. A. Shtayeh, Waheed J. Jondi, Nidal A. Zatar, Ibrahim M. Abu-Reidah, Rana M. Jamous. Pharmaceutical Biology (Impact Factor: 1.21). 01/2014;

38- Antimicrobial activities of six plants used in Traditional Arabic Papestinian Herbal Medicine, Ahmad I. Husein, Mohammed S. A. Shtayeh, , Rana M. Jamous, Salam Y. Abu Zaitoun, Waheed J. Jondi, Nidal A. Zatar. African Journal of Microbiology Research. 8(38) (2014) 3501-3507.

39- Synthesis and biological evaluation of novel mono acid esters derived from the constituents of Urtica pilulifera, Ahmad I. Husein, Waheed J. Jondi, Nidal A. Zatar, Mohammed S. A. Shtayeh. Iranian Journal of Pharmaceutical Research. 13(4) (2014).

40- High Performance Liquid Chromatographic Method for Quantitative Determination of Emodin in Rumex Cyprius Marb, Spectrophotometric Studies, Ahmad Ibrahim Husein*, Mohammed Saleem Ali-Shtayeh, Waheed Jebri Jondic, Nidal Abd-Aljapar Zatar, and Mohammed Abd-Alah Al-Nuri. International Journal of Sciences: Basic and Applied Research (IJSBAR) ISSN 2307-4531 (Print & Online) <http://gssrr.org/index.php?journal=JournalOfBasicAndApplied>

Teaching

Units taught

Year	Code	Title
1	10231101	General Chemistry (1)
1	10231102	General Chemistry (2)
1	10231107	Practical General Chemistry (1)
1	10231108	Practical General Chemistry (2)
2	10231211	Analytical Chemistry
2	10231215	Practical Analytical Chemistry
2	10231212	Analytical Chemistry
2	10231216	Practical Analytical Chemistry
3	10231311	Instrumental Methods of Chemical Analysis
3	10231315	Practical Instrumental Methods of Chemical Analysis
4	10231411	Advance Analytical Chemistry
M. Sc.	423511	Analytical Chemistry for M.Sc.
M. Sc.	423515	Practical Analytical Chemistry 23515 for M.Sc.
Ph. D.	423611	Electroanalytical Chemistry Ph.D.
4	10236312	Chemical Pollution and Industrial Safety
4	10236413	Food Industry Chemistry
3	10236365	Chemical Operations Lab
1	10231114	General Chemistry for Health Science
1	10231213	Analytical Chemistry for Health Science