**بسم الله الرحمن الرحيم**

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| **An-Najah****National University****Faculty of Science****Dept. of Physics****Prof. Issam Rashid****e-mail: ashqer@najah.edu** | NNU Seal logo | **جـامـعـة****النـجـاح الـوطنـيـة****كليـة العلوم****قسم الفيزياء** **أ.د. عصام راشد**  |

**Research Interest:**

Theoretical and Experimental Condensed Matter: Liquid binary mixtures, Mode coupling theory, Dynamic scaling theory, physical properties of liquids, effects of noise pollution and Electromagnetic field on human health.

**Education:**

**1985 -1990** Ohio University, Athens, Ohio, USA

 Ph. D. Theoretical and Experimental Condensed Matter

 All expenses financed by research assistant(RA)

**1980 – 1982** University of Jordan, Amman, Jordan

 M. Sc. Experimental condensed matter

 Financed by teaching assistant(TA)

**1977 – 1980** Yarmouk University, Irbid, Jordan

 B. Sc. Physics Major

**Employment:**

**2005 - Present** Full Prof. An-Najah National University

**2000 - 2001** Chairman of Physics Dept. An-Najah National University

**2002 - 2006** Coordinator of graduate program

**2011 – Present** Coordinator of graduate program (Master and PhD in Physics)

**1998 - 2005** Associated Prof. An-Najah National University

**1990 -1997** Assistant Prof. An-Najah National University

**Courses Taught:**

**Graduate Courses for Master and PhD**

Classical Mechanics 511 and 512, Electrodynamics 521 and 522, Mathematical Physics 561 and 562, Quantum Mechanics 531 and 532, Nuclear and Elementary Physics 541, Statistical Mechanics 571, Special Topics 581, Experimental technique 595, Seminar 591, Advanced Statistical Mechanics 971

**Undergraduate Courses**

Statistical Mechanics 455, Classical Mechanics 352 and 452, Nuclear Physics 461, Quantum Mechanics 354 and 454, Electricity and Magnetism 351and 451, Thermodynamics 241, Acoustics 471, Mathematical Physics 353 and 453, Modern Physics 242 and 342, Solid State 331, Modern Physics 235, 335, Scientific research 399, General Physics 101 and 102, Laboratories107, 108, and 233.

**1985 – 1990**  Ohio university, Athens, Ohio

 Teaching General Physics and Laboratories

 Help session (Extensive problem solving sessions)

**1982 – 1984**  An-Najah National University, Nablus, Palestine

Lecturer, Teaching Classical Mechanics 352 and 452, Nuclear Physics 461, Quantum Mechanics 354, Thermodynamics 241, Modern Physics 242, General Physics 101 and 102, Laboratories107, 108, and 233

**1980 – 1982** University of Jordan, Amman, Jordan

 Teaching physics laboratories and help sessions

**PhD &M. Sc. Supervisor for: Student’s Name Graduation Year**

1-Hassan Rashid AbdelRaziq 2000

 2- Mahmoud Mohammad Ali 2001

 3- Nazim Sa’d Hanini 2002

 4- Abdel Naser Isma’el 2004

 5- Roba Mohammed Anis 2010

 6- Majd Nathmi Sa’abnah 2011

 7- Rowaida Mahmoud Sadeq 2011

 8- Ruba Fawzi Ahmad 2011

 9- Khadija Saleh Dawabsha 2012

 10- Hadeel Mahmud Abo-Ras 2012

 11- Dana Nabeel Alsheikh 2012

 12- Tajweed Hashim Nierat 2012

 13- Noorhan Fareed Al-Sheih 2013

 14- Iman Jbarah Al-Faqeeh 2013

 15- Omar Sari Subha 3/2014

 16- Ahmad Mustafa Bahti 3/2014

 17- Mohammed Waleed Suliman 3/2014

18- Reham Issam Thaher 5/2014

19- Muna Fozan Darawshe 5/2014

20- Isra Ribhi Abu Hadbah 5/2014

21- Yusur Hisham Kittany 5/2014

22- Diya Aldeen Qasem 5/2014

23- Saja Mohammad Abdo 7/2014

24- Saja Ghazi Omar 7/2014

25- Mareem Rehan 2/2015

26- Shadia Elean 2/2015

27- Estiklal Fukah 2/2015

` 28- Eman Ateeq 2/2015

29- Balsam Attalah 4/2015

30- Ghadeer Hussan 4/2015

31- Heba Bsharat 3/2015

32- Heba Abu Zahra 4/2015

33- Lena Odeh 4/2015

34- Jihan Snouber 5/2016

35- Asma Shadi 5/2016

* **Currently I am supervising some master students on doing M. Sc. thesis.**

**Student’s Name:**

1. Saeed Abu zaid
2. Walla Adnan
3. Raed Jaradat (PhD Student)
4. Falestine Abu Asab
* I have been an external or an internal defense committee member for more than 15 master students

**Publications:**

**Publications in Refereed Journal**

1. Two Binary Liquid Critical Mixtures Belong to Class of Universality, Ata BN and AbdelRaziq, J Material Sci Eng 2015, 5:1

1. Critical Behavior of the Electrical Conductivity for the Binary Mixture of Water and Phenol, Zahra HK. Abdelraziq IR. Saaddein I., J Material Sci. Eng 2015, 5:2

1. Rheology Properties of Castor Oil: Temperature and Shear Rate-dependence of Castor Oil Shear Stress, Abdelraziq IR. and Nierat T. J Material Sci Eng 2015, 5:1

1. Determination of Some Metallic Elements and their Effect on Physical Properties of Edible Olive Oil in Palestine, Fuqha E,Abu-Jafar M and Abdelraziq IR, J Material Sci Eng 2015, 5:1

1. Influence of Waste Water used in Irrigation on the Physical Properties of Olive Oil in Palestine, Odeh LH, Musameh S and Abdelraziq, J Material Sci Eng 2015, 5:1
2. Critical behavior of refractive index of binary mixture cyclohexane- phenol, Heba Bsharat,MohammedAbu-Jafarand, IssamAbdelraziq\*, Physical Chemestry10-2(2015)
3. [The effect of light intensity on blood pressure, heart pulse rate, blood oxygen saturation and temperature of children in Jenin-City Schools,](https://www.researchgate.net/publication/262206617_The_effect_of_light_intensity_on_blood_pressure_heart_pulse_rate_blood_oxygen_saturation_and_temperature_of_children_in_Jenin-City_Schools?ev=pubfeed_dept) [Hadeel Abo-Ras](https://www.researchgate.net/researcher/2047959194_Hadeel_Abo-Ras), [Issam Abdelraziq](https://www.researchgate.net/researcher/2039870884_Issam_Abdelraziq), [Musa El-Hasan](https://www.researchgate.net/researcher/2047964560_Musa_El-Hasan), J. of An-Najah National University,01/2015; 29(1).

1. [**Storage Age Dependence of Olive Oil Acidity in Different Locations in Palestine,**](https://www.researchgate.net/publication/265595026_Storage_Age_Dependence_of_Olive_Oil_Acidity_in_Different_Locations_in_Palestine?ev=prf_pub) [Tajweed Hahim Nierat](https://www.researchgate.net/researcher/2035465558_Tajweed_Hahim_Nierat), [Derar Al-Smadi](https://www.researchgate.net/researcher/2053949603_Derar_Al-Smadi), [Sharif Mohammad Musameh](https://www.researchgate.net/researcher/2035462282_Sharif_Mohammad_Musameh), Issam Rashid Abdelraziq, Journal of Physical Science 12/2014; 25(1):33-43.
2. [**The Effect of Electromagnetic Radiation from Antennas on Children in Schools in Nablus Area**](https://www.researchgate.net/publication/265396795_The_Effect_of_Electromagnetic_Radiation_from_Antennas_on_Children_in_Schools_in_Nablus_Area?ev=prf_pub) [Reham Thaher](https://www.researchgate.net/researcher/2039950960_Reham_Thaher), [Mohammed Abu-Jafar](https://www.researchgate.net/researcher/2039956032_Mohammed_Abu-Jafar), Issam Abdelraziq, Environmental Sciences, accepted to be published, 09/2014.
3. [**Adiabatic Coupling Constant g of the Binary Liquid Mixture Methanol and Cyclohexane,**](https://www.researchgate.net/publication/265051602_Adiabatic_Coupling_Constant_g_of_the_Binary_Liquid_Mixture_Methanol_and_Cyclohexane?ev=prf_pub)

[Saja Omar](https://www.researchgate.net/researcher/2051737644_Saja_Omar), Issam Abdelraziq, Materials, accepted to be published, 08/2014.

1. [**The Exposure Effect of the Signals of Cell Phones on the Employees of Nablus and Jenin Municipalities**](https://www.researchgate.net/publication/266141753_The_Exposure_Effect_of_the_Signals_of_Cell_Phones_on_the_Employees_of_Nablus_and_Jenin_Municipalities?ev=prf_pub)

[Omar Abu-Subha](https://www.researchgate.net/researcher/2054857887_omar_Abu-Subha), [Zaid N. Qamhieh](https://www.researchgate.net/researcher/6600407_Zaid_N_Qamhieh), Isssam R. Abdelraziq

Environmental Sciences, accepted to be published, 08/2014.

1. [**Modification of the Fixman’s Analytic Function in Binary Liquid Mixtures**](https://www.researchgate.net/publication/264773232_Modification_of_the_Fixmans_Analytic_Function_in_Binary_Liquid_Mixtures?ev=prf_pub)

[Daya Qasem](https://www.researchgate.net/researcher/2052681324_Daya_Qasem), Issam Abdelraziq

Materials Science, accepted to be published, 08/2014.

1. [**Intermolecular Force Rang and Noncritical Shear Viscosity of the Critical Binary Mixture of Benzene and Coconut Oil**](https://www.researchgate.net/publication/264772908_Intermolecular_Force_Rang_and_Noncritical_Shear_Viscosity_of_the_Critical_Binary_Mixture_of_Benzene_and_Coconut_Oil?ev=prf_pub)

[Saja Abdo](https://www.researchgate.net/researcher/2051745319_Saja_Abdo), Issam Abdelraziq

Materials Science, accepted to be published, 08/2014.

1. **Conference Paper:** [**Rheological Properties for Olive Oil in Palestine**](https://www.researchgate.net/publication/264858336_Rheological_Properties_for_Olive_Oil_in_Palestine?ev=prf_pub)

[Ahmad Bahti](https://www.researchgate.net/researcher/2046455007_Ahmad_Bahti), [Sharif Musameh](https://www.researchgate.net/researcher/2035462282_Sharif_Musameh), Issam Asqer

The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP-IV), Al-Quds University - Jerusalem; 08/2014.

1. **Conference Paper:** [**Electric and Magnetic field Radiation Leakage from Microwave Ovens At Homes in Palestine**](https://www.researchgate.net/publication/265020966_Electric_and_Magnetic_field_Radiation_Leakage_from_Microwave_Ovens_At_Homes_in_Palestine?ev=prf_pub)

[Muna Darawshe](https://www.researchgate.net/researcher/2048373967_Muna_Darawshe), [Mohammed Abu-Jafar](https://www.researchgate.net/researcher/2039956032_Mohammed_Abu-Jafar), Issam Abdelraziq

The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP-IV), Al-Quds University - Jerusalem; 08/2014

1. **Conference Paper:** [**Effects of Electromagnetic Radiation from Microwave Ovens on Worker's Health at Cafeterias in some Universities in Palestine**](https://www.researchgate.net/publication/265021123_Effects_of_Electromagnetic_Radiation_from_Microwave_Ovens_on_Worker%27s_Health_at_Cafeterias_in_some_Universities_in_Palestine?ev=prf_pub)

[Isr'a Abu-Hadba](https://www.researchgate.net/researcher/2053115642_Isra_Abu-Hadba), [Mohammed Abu-Jafar](https://www.researchgate.net/researcher/2039956032_Mohammed_Abu-Jafar), Issam Abdelraziq

The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP-IV),, Al-Quds University, Jerusalem; 08/2014.

1. **Conference Paper:** [**The effect of light intensity on employees health in pharmaceutical companies**](https://www.researchgate.net/publication/265164681_The_effect_of_light_intensity_on_employees_health_in_pharmaceutical_companies?ev=prf_pub)

[M. suleiman](https://www.researchgate.net/researcher/2039963825_M_suleiman), [M. Abu-Jafar](https://www.researchgate.net/researcher/2039956032_M_Abu-Jafar), I. Abdelraziq

The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP-IV), Al-Quds University - Jerusalem; 08/2014.

1. [**Rheology Properties of Coconut Oil: Temperature and Shear Rate -Dependence of Coconut oil Shear Stress**](https://www.researchgate.net/publication/264974021_Rheology_Properties_of_Coconut_Oil_Temperature_and_Shear_Rate_-Dependence_of_Coconut_oil_Shear_Stress?ev=prf_pub)

[Tajweed Neirat](https://www.researchgate.net/researcher/2053012975_Tajweed_Neirat), Issam Abdelraziq

Materials, accepted to be published, 08/2014.

1. **Rheological Properties (Refractive Index) for Olive Oil in Palestine**

Bahti, [Sh. M. Musameh](https://www.researchgate.net/researcher/2039947346_Sh_M_Musameh), I. R. Abdelraziq

Materials Science, accepted to be published, 08/2014.

1. [**Rheological properties (acidity) for olive oil in Palestine**](https://www.researchgate.net/publication/266969760_Rheological_properties_%28acidity%29_for_olive_oil_in_Palestine?ev=prf_pub)

 [Bahti](https://www.researchgate.net/researcher/2039942745_A_M_Bahti), [Sh. M. Musameh](https://www.researchgate.net/researcher/2039947346_Sh_M_Musameh), I. R. Abdelraziq

Materials Science, accepted to be published, 08/2014.

1. [**Effects of Electromagnetic Radiation from Microwave Ovens on Workers Health at Cafeterias in Some Higher Educational Institutions in Palestine**](https://www.researchgate.net/publication/267624810_Effects_of_Electromagnetic_Radiation_from_Microwave_Ovens_on_Workers_Health_at_Cafeterias_in_Some_Higher_Educational_Institutions_in_Palestine?ev=prf_pub)

[Isr'a Abu-Hadba](https://www.researchgate.net/researcher/2053115642_Isra_Abu-Hadba), [Mohammed Abu-Jafar](https://www.researchgate.net/researcher/2039956032_Mohammed_Abu-Jafar), Issam Abdelraziq

ESAIJ Environmental Science, accepted to be published, 08/2014.

1. [**Temperature-dependence of olive oil viscosity**](https://www.researchgate.net/publication/263012034_Temperature-dependence_of_olive_oil_viscosity?ev=prf_pub)

[Tajweed Hashim Nierat](https://www.researchgate.net/researcher/2055037118_Tajweed_Hashim_Nierat), [Sharif Musameh](https://www.researchgate.net/researcher/2035462282_Sharif_Musameh), Issam Abdelraziq

Materials Science 06/2014; 11(7):233-238.

1. [**Temperature and Storage Age (Yearly Basis)-Dependence of Olive Oil Viscosity in Different Locations in Palestine**](https://www.researchgate.net/publication/258222353_Temperature_and_Storage_Age_%28Yearly_Basis%29-Dependence_of_Olive_Oil_Viscosity_in_Different_Locations_in_Palestine?ev=prf_pub)

[Tajweed H. Nierat](https://www.researchgate.net/researcher/2035465558_Tajweed_H_Nierat), [Sharif M. Musameh](https://www.researchgate.net/researcher/2035462282_Sharif_M_Musameh), Issam R. Abdel-Raziq

J. Mater. Environ. Sci. 5(1), 245-254, 01/2014.

1. [**Electric and Magnetic field Radiation Leakage from Microwave Ovens At Homes in Palestine**](https://www.researchgate.net/publication/265020966_Electric_and_Magnetic_field_Radiation_Leakage_from_Microwave_Ovens_At_Homes_in_Palestine?ev=prf_pub)

[Muna Darawshe](https://www.researchgate.net/researcher/2048373967_Muna_Darawshe), [Mohammed Abu-Jafar](https://www.researchgate.net/researcher/2039956032_Mohammed_Abu-Jafar), Issam Abdelraziq

Environmental Science 8/2014 accepted to be published

1. T. H. Nierat, S. M. Musameh, and **I. R. Abdel-Raziq, “***Temperature and Storage Age (Yearly Basis)-Dependence of Olive Oil Viscosity in Different Locations in Palestine”* Journal of Matter and Environmental Sciences, 5(1), 245-254, (2014).
2. D. N. Ibrahim, Z. N. Qamhieh, and **I. R. Abdel-Raziq,** “*Health Effects of Occupational Noise Exposure in the Range (90 - 110) dB(A) Especially on Blood Oxygen Saturation of Workers in Selected Industrial Plants”* Env. Sc. An In. Journal, 8(11), 419-424, (2013)
3. N. F. Sheikh Mohammad, S. M. Musameh, and **I. R. Abdel-Raziq**, “*The Effects of Light Intensity on Day and Night Shift Nurses' Health Performance”,* Environmental Science Journal,8(12),460-466, (2013).
4. T. H. Nierat, D. Al-Smadi, S. M. Musameh, and I. R. Abdelraziq, “Storage Age Dependence of Olive Oil Acidity in Different Locations in Palestine”, J. Phy. Sci., 25(1), (2013).
5. T. H. Nierat, S. M. Musameh, and I. R. Abdelraziq, “Temperature and storage age (weekly basis)-dependence of olive oil viscosity”, Materials Science an Indian Journal, 9(11), 445-451, (2013).

1. R. M. Sadeq, Z. N. Qamhieh, and I. R. Ashqer, “The Effect of Noise Pollution on Arterial Blood Pressure and Heart Pulse Rate of Workers in the Hospitals of Nablus City-West Bank”, J. Med. Sci., 13(2), 136-140, (2013).
2. I. R. Abdelraziq, “Critical behavior of the ultrasonic attenuation for the binary mixtures of benzene-coconut oil and hexane—bb-dichloroetyle ether”, Acta Acustica united with Acustica,(2005).
3. I. R. Abdelraziq, “Effects of Occupational Noise Exposure on Blood Pressure, Pulse Rate and Hearing Threshold in Workers in Selected Plants in Nablus City”, Journal of the Acoustical Society of America, (2004).
4. I. R. Abdelraziq, “Special Functions”, Deanship of Scientific Research, An-Najah National University, (2004).
5. I. R. Abdelraziq, “Noise Pollution in Factories in Nablus City”, Acta Acustica united with Acustica, (2003).
6. I. R. Abdel-Raziq, Effects of Noise Pollution on Blood Pressure, Heart Rate and Hearing Threshold in School Children, Journal of Medical Sciences, (2003).
7. I. R. Abdelraziq, “Two-scale-factor universality of binary liquid critical mixtures”, Pakistan J. of Applied Sciences,(2003).
8. I. R. Abdelraziq, “Concentration and temperature dependence of shear viscosity of the critical mixture of nitroethane and 3-methylpentane”, Najah J. R., (2002).
9. I. R. Abdelraziq, “Critical amplitude of acoustical attenuation in mode-copling theory for the binary mixture aniline and cyclohexane”, Najah J. R., (2001).
10. I. R. Abdelraziq, “Nablus-Jenin Highway Environmental Assessment, Acoustic Issues”, Palestine National Authority Ministry of Public Works, (2001).
11. I.R. Abdelraziq, “Measurements of Noise Pollution in the Community of Arraba”, Acta Acustica united with Acustica, (2000).
12. I. R. Abdelraziq,” Noise Measurements in the Community of Nablus in Palestine”, Acta Acustica united with Acustica, (2000).
13. I. R. Abdelraziq, “Ultrasonic absorption in critical binary mixture of perfluoromethylcyclohexane and carbon tetrachloride”, J. Acoust. Soc. Am., (2000).
14. I. R. Abdelraziq, “Shielding effectiveness of carbon fiber eoxy at microwave frequencies”, BeatLahem U. J., (1996).
15. I. R. Abdelraziq, “Shear viscosity anomaly near the critical binary system”, BethLahemU. J., (1996).
16. I. R. Abdelraziq, “The behavior of the ultrasonic of the cyclohexane and aniline”, Islamic R. J., (1996).
17. I. R. Abdelraziq, ”A fifth – order multiperterteration derivation of the energy coefficients of plyatomic molecules”, Najah J. R., (1996).
18. I. R. Abdelraziq, “Absorption and velocity of ultrasonic binary solutions of poly(ethylene glycol) and water”, J. Acoust. Soc. Am., (1993).
19. I. R. Abdelraziq, “The electricity and magnetism problem solver”, Alansar Press, (1993).
20. I. R. Abdelraziq, “The general mechanics problem solver”, Alansar Press, (1992).
21. I. R. Abdelraziq, “Critical behavior of the ultrasonic attenuation and velocity and shear viscosity of carbontetrachloride –coconut oil”, J. Acoust. Soc. Am, (1992).
22. I. R. Abdelraziq, “Critical behavior of the ultrasonic attenuation and velocity and shear viscosity of nitrobenzene-n-hexane”, J. Acoust. Soc. Am. (1989).

**Conferences:**

| **Presentation** | **Year** | **Place** | **Conference Name** |
| --- | --- | --- | --- |
| Yes | 1987 | Cleveland, Ohio | AIP Conference Proceedings 169 |
| Yes | 1989 | Columbus, Ohio | The Spring meeting of the Ohio section of APS |
| Yes | 1989 | Columbus Ohio | The Fall meeting of Ohio |
| Yes | 1989 | Kansas City | The 118th meeting of the Acoustical Society of America |

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| --- | --- | --- | --- |
| Yes | 2000 | An-Najah National University Nablus Palestine | The Palestinian Physics Conference “Condensed Matter and Applications” |
| Yes | 2000 | Ai-Quds University Palestine | The 2nd Palestinian Physics Symposium |
| Yes | 2000 | University of Jordan Amman Jordan  | Fourth International Conference in Physics of Condensed Matter |
| Yes | 2000 | University of Jordan Amman Jordan  | Seventh Petra School of Physics |

**Grants:**

Grant from Arab Union Universities 1998, $ 15000.