DR. RABIA QINDEEL

Selected to the NIST Atomic Line Broadening Bibliography Database (http://physics.nist.gov/linebrbib) for the internal use at the **National Institute of Standards and Technology, Gaithersburg, MD, USA.**

R. Qindeel, M. S. Dimitrijević, N. M. Shaikh, N. Bidin, and Y. M. Daud, "Spectroscopic estimation of electron temperature and density of zinc plasma open air induced by Nd: YAG laser," Eur. Phys. J. Appl. Phys. 50, 30701 (**2010**).

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Date of Birth: 15 October,1971, Marital Status: Married, Nationality: Pakistani.
Job Description: Assistant Professor: KSU, Kingdom of Saudi Arabia, Email: rqindeel@ksu.edu.sa
http://www.ksu.edu.sa

PROFESSIONAL MISSION

Physics to occasional interdisciplinary endeavors.
My reliability, responsibility and friendly nature are assets. I would bring to the work and also have the ability to prioritize whilst under pressure meeting tight deadlines.
To facilitate and engage in a vibrant research program of experimental laser plasma Physics and thin films, directed toward understand physical principles.
To apply the problem solving skills and approach of experimental laser plasma

QUALIFICATIONS

PhD
Universiti Teknologi Malaysia
Malaysia, 2004-2008

Laser Plasma Physics: Non-linear optics, High-energy-density-plasma, Plasma diagnostics, Pulsed power plasma, Laser characterization, Shockwave generation, Lighting, micro and nano applications of plasma, Spectroscopy, Ions emission, X-rays emission, Medical applications, Plasma dust (micro and nano particles emission), Material processing & Thin film deposition.

M.Sc (Physics) 1st class Honors
Islamia University Bahawalpur,
Pakistan, 1992-1994

Methods, Mechanics, Computer Program, Solid State Physics, Electronics, Electronics Practical Modern Physics Practical Quantum Mechanics, Electricity & Magnetism, Nuclear Physics, Advance Practical, Special Paper (A) Solid-State Theory, Special Paper (B) Solid-State Theory

B.Sc 1st class Honors
Islamia University Bahawalpur,
Pakistan 1989-1991

(Math A&B and Physics) Calculus, Mechanics, Vectors, Topology, Matrix, Number of Theory, Electricity and Magnetism, Thermodynamics, Mechanics, Vectors, Waves and Oscillation.

B.Ed 1st Class Honors
Islamia University Bahawalpur
Pakistan Sep. 1995 to Sep. 1996

Physics, Mathematics, Computer Education, Education Research and

Instructional Technology, Foundation of Education, Education Psychology, School Administration and Management, Curriculum Measurement & Education, Guidance and Counseling, Environment Education

WORK & RESEARCH EXPERIENCE

Assistant Professor

Department of Physics and Astronomy
College of Science
King Saud University
P. O. Box 2455, Riyadh 11451
Kingdom of Saudi Arabia
2012/ going on

Post-Doctorate

INSTITUTO de PESQUISAS ENERGETICAS
e NUCLEARES (IPEN/**CNEN)**
Cidade University **Sao Paulo-SP**
Brazil 2011-2012

Generation of Coherent X-rays in the Water Window with Laser.

Research fellow

Universiti Teknologi Malaysia (UTM)
Malaysia, August 2007---October 2008

Numerical Simulation of Magnetohydrodynamic (MHD) Accelerator with Non-equilibrium Plasma.

Senior Lecturer

Faculty of Science, Physics Department,
Photonic: Laser Plasma and Electro-Optic Laboratory
Universiti Teknologi Malaysia(UTM)
81310 Skudai , Johor Bahru
Malaysia
January, 2009-2011

Lecturer:

Principal Alpine Degree College,
Khanpur, Pakistan
(From 1st Jan. 2001 to 31th Dec. 2003)

Teacher:

Government Girls Secondary 1-P
Khan Pur Pakistan
(1st June 1995 to 24th Dec. 2000)

Lecturer:

Government Degree College For women
Lodhran Bahawalpur Pakistan
(From 1st Jan. 1995 to 30th April 1995)

Projects Involved

- **Fundamental Research Grant Scheme (FRGS) FASA 1/2009, Malaysia**

Project Title:

Laser/Arc Processing and Characterization of Carbon Allotropes/Nanotubes using Carbon Dust/Hydrocarbon Gasses.

- **Foreign Academic Visitors Research Development (R&D) Fund (FAVF), Malaysia**

Project Title:

Mechanism and control of current transport in GaN and AlGaN Schottky barriers for chemical sensor applications

- **The National Plan for Science, Technology and Innovation (NPST), Kingdom of Saudi Arabia.**

Project Title:

Study of the spectral lines of chromium for Ap star atmospheres.

Supervise Research PhD, M.Sc and Student Under Graduate (UTM)

Total Students (UTM)

PhD : (2) Physics (Laser Plasma)
MSc : (1) Physics (Photonics)
PSM: (2) Under Graduate

PROFESSIONAL TRAINING COURSES

UNIVERSITI PUTRA MALAYSIA,
JANUARY- DECEMBER 2004
MALAYSIA

Doctoral research
Research proposal
Basic of Malay skill
Research methodology
Advance mathematical physics
Research topics in mathematics
Techniques in microscopy and spectroscopy
English for graduate studies (i.e., IEC: Intensive English Course

PROFESSIONAL SKILLS

Plasma generation by high power laser,
Plasma Plume generation,
Plasma diagnostics techniques.
Scanning Electron Microscopy (SEM)
Highly proficient at Access, Excel, Word & PowerPoint
Computer Software (Matrox Inspector 2.1, Matrox Intellicam7.1, Video Test 5, Buehler Omni met, Matlab 7.0) for evaluation of Plasma.
Computer Programming in (FORTRAN 77, Basic, C++) Languages.
Presentation: Developed ability to produce reports and presentations to a professional standard
Analysis & evaluation: Proficient in assessing data and formulating solutions.
Organizational: Effective at time management and prioritizing tasks to achieve deadlines.
Interpersonal/Communication: Strong team working, leadership and Communication skills. Innovative: Approach to tasks with ability to devise new solutions.
Completed survey work using laser equipment & LIBS.
Ensured health & safety procedures were adhered to and report any breaches.

MEMBERSHIP

PIP Pakistan Institute of Physics 1143
IOP Institute of physics 80007381(ASC)
OSA Optical Society of America 956874
PPS Pakistan Physical Society (Life Member)
KSS Khwarizmi Science Society Pakistan (Life member)
IEEE Institute of Electrical and Electronics Engineers 90348832
TM Toastmasters International Club 01565413
ISMWS International Society of Muslim Women in Science

PUBLICATIONS

Journal:

1. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. IR Laser Plasma Interaction with Glass. *American Journal of Applied Sciences*. USA 12, 1009-1015, **2007**.

2. N. Bidin, **R. Qindeel**, M. Y. Daud and K. A. Bhatti. "Plasma Splashing from Al and Cu Materials Induced by an Nd: YAG Pulsed Laser. *Journal of Laser Physics*. Vol. 17, No. 10, 1222-1228, **2007**.

3. **Rabia Qindeel**, Noriah Bte Bidin and Yaacob B. Mat Daud. The observation study of infrared laser induced plasma plume. *Journal Research (Science)*, Bahauddin Zakariya University, Multan, Pakistan. Volume 17 No.3, 145-153, **2006**.

4. M. Asghar, I. Hussain, M. Shahid, **R. Qindeel**, E. Bustarret, J. Cibert, S. Kuroda, S. Marcet, and H. Mariette. Influence of high nitrogen flux on crystal quality of MBE grown GaN layers using raman spectroscopy: a theoretical justification. *Journal of Research (Science)*, Bahauddin Zakariya University, Multan, Pakistan. Vol.17, No.4, 247-255, **2006**.

5. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Plasma Induced by laser-glass interaction. *Journal of Solid State Science and Technology Malaysia (MASS).* Vol. 14, No. 2, p. 157-163, **2006**.

6. **Rabia Qindeel**, Noriah Bidin and Yaacob Mat Daud. Diagnose and investigation of angular distribution of copper plasma ions. Journal of Physics. *Universiti Teknologi Malaysia*. Vol. 2, p. 47-53, **2007**.

7. Noriah Bidin, **Rabia Qindeel** and Yaacob Mat Daud. Dynamics expansion of laser produced plasma with different materials in magnetic field. *Journal of Physics. Universiti Teknologi Malaysia*. Vol. 1, p. 44-48, **2006**.

8. **Rabia Qindeel**, Noriah Bte Bidin and Yaacob B. Mat Daud. Investigation of Angular Distribution on Copper Ions Using Faraday Cup Technique. *Jurnal Fizik UTM*. Vol.4. 35-41, **2009**.

9. **Rabia Qindeel**, Noriah Bidin, Zuhairi Ibrahim, Nur-Shahidah and

Yaacob Mat Daud. Angular Emission Distribution of Copper Ions Using Faraday Cup Technique. *Journal of Current Nanoscience*. Vol. 6, No. 3, p. 315, **2010**.

10. **Rabia Qindeel**, M.S. Dimitrijevic, N.M. Sheikh, Noriah Bidin, Yaacob Mat Daud. Spectroscopic Estimation of Electron Temperature and Density of Zinc Plasma Open Air Induced by Nd:YAG Laser. *The European Journal of Physics: Applied Physics*. Vol. 50, No. 3, 30701, **2010**.

11. Maneea Eizadi Sharifabad, Abdul Manaf Hashim, Shaharin Fadzli Abd Rahman, Mastura Shafinaz Zainal Abidin, Farahiyah Mustafa, Abdul Rahim Abdul Rahman, **Rabia Qindeel** and Nurul Afzan Omar, "Open-Gate Undoped-AlGaN/GaN HEMT Structure for *p*H Sensing Application. *Journal of Materials Science and Engineering, USA, ISSN 1934-8959*, 4 (7): 2078-2085, **2010**.

12. F.D. Ismail, T. Saktioto, M. Fadhali, P.P.Yupapin, **R. Qindeel**, J.Ali. Thermodynamic Equilibrium for Nitrogen Species Discharge: Comparison with Global Model. *Optik -International Journal for Light and Electron Optics*, 122 (5), pg. 455-458. **2011.**

13. Mustura Shafinaz Zainal Abidin, Maneea Eizadi Sharifabad, Shaharin Fadzli Abd Rahman, Farahiyah Mustafa, Abdul Manaf Hashim, Abdul Rahim Abdul Rahman, **Rabia Qindeel**, Nurul Afzan Omar. Open-Gate Liquid-Phase Sensor Fabricated on Undoped-AlGaN/GaN HEMT Structure. *Journal of Applied Science Alert*, 10 (18), 2078-2085, **2010**.

14. **Rabia Qindeel**, Noriah Bidin, Yaccob Mat Daud, Nur-Shahidah. Comparison of Al and Cu Ions Emissions by Nd:YAG Laser Matter Interaction. *Journal of Current Nanoscience*. Vol: 7, No. 4, **2011**.

15. **Rabia Qindeel**, K.T. Chaudhary, K.A. Bhatti, Jalil Ali, M.S. Hussain. Investigation of Carbon Thin Films by Pulsed Laser Deposition at Different Temperatures. *Journal of non-oxide glasses*, Vol. 1, No 4, **2010**, p. 191-197.

16. **Rabia Qindeel**, Noriah Bidin, R. Zia, Yaccob Mat Daud. Study of Dynamics of Glass Plasma Induced by Nd:YAG Laser in External Magnetic Field. *Optical and Advanced Materials-Rapid Communications*. Vol. 5, No. 4, P. 331 – 335, **2011.**

17. Wang Soo Jeat, Mastura Shafinaz zainal Abidin, Maneea Eizadi Sharifabad, Shaharin Fadzli Abd Rahman, Abdul Manaf Hashim, Abdul Rahim Abdul Rahman and **Rabia Qindeel**. Fabrication and Characterization of GaN-based Gateless FET for Liquid Sensing. *Proceedings of Regional Annual Fundamental Science Seminar **2010***. Accepted 30 November 2009, Available online 15 December **2009**.

18. **Rabia Qindeel**, Munawar Riyadi, Mohammad Taghi Ahmadi, Vijay K. Arora. Low-Dimensional Carrier Statistics in Nanostructures. *Journal of Current NanoScience.* Volume7, No. 2, **2011**.

19. K.A. Bhatti, M.S. Rafique, M. Khaleeq- ur- Rahman, A. Latif, K. Hussain, A. Hussain, K.T. Chaudhary, B.A. Tahir, **R. Qindeel**. Characterization of Platinum and Gold Ions Emitted from Laser

Produced Metallic Plasmas using Solid State Nuclear Track Detectors. *J. Vacuum,* 85 (10), pg. 915-919. **2011.**

20. K.T. Chaudhary, **R. Qindeel**, Saktioto, M.S. Hussain, J. Ali, P.P. Yupapin. Graphite Thin Film Deposition using Laser Induced Plasma. *Engineering Procedia*, 8, pg. 423-427, **2011**.

21. Muhammad Afzal, **Rabia Qindeel**, Hafiz Muhibb Ullah Zulkafal and Norah Alonizan, "The role of medical physics to diagnose head and neck cancer", *World Journal of medical Science*. 9 (1): 43-48, **2013**.

22. Nabil Ben Nessib, Norah Alonizan, **Rabia Qindeel**, Sylvie Sahal-Bréchot, Milan S. Dimitrijević. The OIV 1407.3 Aº /1401.1 Aº emission-line ratios in plasma. *Advances in Space Research*. 54, 1190-1194, **2014**.

23. **Rabia Qindeel** and Walid Tawfik, "Measurement of plasma characteristics of the optically generated copper plasma by laser spectroscopy technique", *Optoelectronics and Advanced Materials - Rapid Communications*, Vol. 8, No. 7-8, p. 741 - 746, **2014.**

24. Syed Mansoor Ali, W. A. Farooq, **Rabia Qindeel**, M. R. Baig, M. A. Shar, S. S. Alghamdi, M. S. Algarawi, M Atif, "Influence of gamma irradiation on the structural and optical properties of nanostructured Magnesium doped SnO thin films", *Journal of Nanoelectronics and Optoelectronics*. Vol. 9. 648-651, **2014**.

25. Leda Bousiakou, Theodore Ganetsos, **Rabia Qindeel**, W. A. Farooq, Amanullah Fatehmulla, Syed Mansoor Ali, "Characterization of multilayer TiO_2/ZnO nanostructured thin films using Raman Spectroscopy", *Optoelectronics and Advanced Materials - Rapid Communications*, Vol. 9, 5-6, May-June **2015**.

26. Walid Tawfik, Leda Bousiakou, **Rabia Qindeel**, Aslam Farooq, Norah Alonizan and Amal J. Fatani, "Trace analysis of heavy metals in groundwater samples using laser induced breakdown spectroscopy (LIBS)", *Optoelectronics and Advanced Materials - Rapid Communications*. Vol. 9, No 1-2, p. 185 - 192, January-February **2015**.

27. **Rabia Qindeel**, N. Alonizan, M. R. Baig, W. A. Farooq, S. S. Al-Ghamdiand M. S. Al-Garawi. "Study of Optical Properties of Alpha and Nd:YAG Laser Irradiated Cellulose Nitrate Polymer". *Organo Opto-Electronics An International Journal*. Vol. 1, No. 1, 17-24, **2015**.

28. Norah Alonizan , **Rabia Qindeel**, Nabil Ben Nessib, Sylvie Sahal-Brechot and Milan Dimitrijevic, Stark Broadening Parameters for Neutral Oxygen Spectral Lines, *Journal of Astrophysics and Astronomy*, Vol. 36 (4), **2015**.

29. **Rabia Qindeel**, Leda G. Bousiakou, Walid Tawfik, W.A. Farooq, Norah H. Alonizan, Salwa Alsaleh and Dimitris Siachos, Trace Element Analysis Using ICP-MS in the Shallow Aquifers of The Haier Region, Saudi Arabia, *Middle-East Journal of Scientific Research*, 23 (8): 1941-

1948, **2015**.

30. Leda G. Bousiakou, **Rabia Qindeel**, A. S. Almuzaini, Hosham A. Alghamdi, Walid Tawfik, W. A Farooq, H. Kalkani and E. Manzou, Assessing the Effectiveness of Microelement Removal in the South Tertiary Wastewater Plant, Riyadh KSA. *Journal of Environmental Science, Current World Environment*, Volume 10, Issue 3, pp. 772-780, December **2015**.

31. Abeer Al-Towyan, Nabil Ben Nessiba, Norah Alonizan, **Rabia Qindeel**, and Nafeesah Yacoub, "Stark widths dependence on electron temperature for neutral chromium spectral lines". *Eur. Phys. J. Plus* 131 (9), pp. 9, **2016**.

32. M.I. Khan, Muhammad Saleem, K.A. Bhatti, **Rabia Qindeel**, Hayat Saeed Althobaiti, Norah Alonizan, "Investigations of the Structural, Morphological and Electrical Properties of multilayer ZnO/TiO_2 thin films, deposited by Sol-Gel Technique". *Results in Physics*, Vol. 6, 156-160, **2016**.

33. Norah Alonizan, **Rabia Qindeel** and Nabil Ben Nessib, "Atomic Structure Calculations for Neutral Oxygen". *International Journal of Spectroscopy*, Vol. 2016, Article ID: 1697561, 7 pages, **2016**.

34. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Leda G. Bousiakou, Norah Alonizan, "Comparative study of multilayered ZnO/TiO2/ZnO and TiO2/ ZnO/TiO2 thin films prepared by sol–gel dip coating method", Journal of material science and material in electronics *J Mater Sci: Mater Electron* DOI 10.1007/s10854-017-7685-9, **2017.**

35. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Leda G. Bousiakou, Norah Alonizan, "Characterization of 1% Cu doped TiO_2 multilayer nano structured thin films deposited by Sol-Gel spin coating technique", Materials Letters, Ref. MLBLUE-S-16-07395 (**2017**). (Under Review).

36. **Rabia Qindeel**, "Effect of gamma radiation on morphological & optical properties of ZnO nanopowder" *Results in Physics*, Vol. 7C, pp. 807-809, **2017.**

37. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Fazal-e-Aleem, Naeem-ur-Rehman, Norah Alonizan, "Sol–gel deposition and characterization of multilayer 2% Cu doped TiO2 nano structured thin films", *Journal of Materials Science: Materials in Electronics*, J Mater Sci: Mater Electron DOI 10.1007/s10854-017-6690-3, Volume 28, Issue 13, pp 9471–9477, July 2017., **2017**.

38. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Norah Alonizan, Hayat Saeed Althobaiti, "Characterizations of multilayer ZnO thin films

deposited by sol-gel spin coating technique", *Results in Physics*, Vol. 7, pp. 651-655, **2017**.

39. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Hayat S. Althobaiti, Norah Alonizan, "Structural, electrical and optical properties of multilayer TiO_2 thin films deposited by sol-gel spin coating", *Results in Physics*, 7, 1437-1439, **2017**.

Conferences:

1. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Plasma generation in air by focusing a Q-switched Nd:YAG laser. Pakistan Institute of Physics, International Conference – 2006, March 13-16, **2006** University of Engineering and Technology, Lahore Pakistan.

2. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. High-Speed Photographic Study on Plasma Induced by Focusing IR Laser. "International conference." Australian Conference on Optical Fiber Technology and Australian Optical Society" 0-13 July, **2006**. RMIT University Melbourne, Australia

3. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Study the Effect of Q-Switched Nd:Yag Laser Interaction with Al in Variable Magnetic Fields. IEEE International conference on semiconductor electronics, 29 Nov.-1 Dec. **2006**. Prince hotel & residence, Kuala Lumpur, Malaysia.

4. **Rabia Qindeel**, Noriah Bidin and Yaacob Mat Daud. Study the Behavior of Laser Produced Glass Plasma in Variable Magnetic Fields. 15-19 August **2006**. International workshop on photonics and applications, Cantho, Vietnam

5. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Infrared Laser Plasma Interaction with Glass. 2nd International Conference on Solid State Science and Technology (ICSSST) 4-6 September, **2006**. Kuala Terengganu, Terengganu Darul Iman, Malaysia.

6. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Dynamics expansion of laser produced plasma with different materials in magnetic field. 12th International Conference on Electrostatics. March 25th -29th **2007**, Oxford UK

7. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Poster presentation Diagnose IR of Nd:YAG laser beam. Tahun Fizik Sedunia, 21-23 September, **2005** Universiti Teknologi Malaysia Skudai Johor Bahru Malaysia

8. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Characterization the output of Nd:YAG laser beam. 1st National Colloquium on Photonics 29th-30th Nov. **2005** ESSET, KAJANG Malaysia.

9. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud.

Characterization of the Nd:YAG laser beam. Advanced Optical Crystals for Electro-Optic Applications. 21-23 May, **2006**. Melaka, Malaysia.

10. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Laser plasma expansion study in magnetic field. Laser and electro-optic seminar. LEOS. 28-29 June, **2006**. Senai Palm Resort, Johor Bahru, Malaysia

11. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Diagnose and Investigation of Angular Distribution of Copper plasma Ions. IEEE Regional Symposium on Microelectronics (RSM 2007). 3–6 December **2007**. Paradise Sandy Beach Resort, Penang, Malaysia.

12. **Rabia Qindeel** and Ionel Valeriu Grozescu. Theoretical considerations on the hot-disk method applied to solids. 6th Putra Physics Seminar. 11th August **2004**. Dewan Kuliah Sains Universiti Putra Malaysia Kuala Lumpur, Malaysia.

13. **Rabia Qindeel**, Makbul Anwari and Sukarsan. Overview of Numerical Simulation for the Performance of MHD Accelerator using Air-Plasma. The 1st International Meeting on Advances in Thermo-Fluid 26th August **2008**, Universiti Teknologi Malaysia, Johor, Malaysia.

14. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Electric Diagnostics of Aluminum Plasma using High Powered Nd:YAG Laser. Tropical Meeting on Lasers and Optoelectronics, The Andaman, Langkawi, 7-11 February **2009**.

15. S M Zafar Iqbal, **Rabia Qindeel**, Saktioto, Jalil Ali and Sing Lee. Radiation Cooling Effect in Plasma Focus Devices using Shock Wave Phenomenon. International Workshop on Plasma Diagnostics & Applications. 2-3, July **2009** @ National Institute of Education, NTU, Singapore.

16. Tanuj Saxena, Munawar Riyadi, Norhana Hussain, Razali Ismail, **Rabia Qindeel**, and Vijay K. Arora. Carrier Statistics in Low Dimensional Nanostructures. IEEE-RSM Proc. August 10-12, **2009**, Kota Bahru, Kelantan, Malaysia.

17. Tanuj Saxena, Rachana Vidhi, Munawar Riyadi, Nasyrah Yaccob, **Rabia Qindeel** and Vijay K. Arora. Re-examination of Voltage and Current Divider Nano- Circuits in the Non-Ohmic Domain. IEEE-RSM Proc. August 10-12, **2009**, Kota Bahru, Kelantan, Malaysia.

18. T. Saktioto, F.D.Ismail, M. Fadhali, P.P.Yupapin, **R. Qindeel**, J. Ali. Thermodynamic equilibrium of Nitrogen Species Discharge: Comparison with global Model. *International Conference on Nuclear Plasma and Radiological Engineering. (ICNPRE, 2009), Bangkok Thailand*. 25-27 December **2009**.

19. **Rabia Qindeel.** Workshop on Publication in High Impact Journal. *Pusat Latihan Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia*. 30-31 July, **2009**

20. Jalil Ali, S. M. Zafar-Iqbal, Saktioto, **Rabia Qindeel**, Bashir A. Tahir, S. H. Saw, S Lee. Effect of Radiation Cooling for Argon Plasma at

Different Filling Pressures in the NX2 Dense Plasma Focus. *ESciNano Annual Symposium 2009*, November 30–December 1, **2009**, The ZON Regency Hotel, Johor.

21. Jalil Ali, S. M. Zafar-Iqbal, Saktioto, **Rabia Qindeel**, Bashir A. Tahir, S. H. Saw, S Lee. The Role of Pease-Braginskii Current in Plasma Collapse. *ESciNano Annual Symposium 2009*, November 30–December 1, **2009**, The ZON Regency Hotel, Johor

22. **Rabia Qindeel**, TJC Hosea, Zuhairi Ibrahim, Yaccob Mat Daud, Noriah Bidin. Comparison of ions emissions from Cu and Al by laser matter interaction. *The 2010 International Conference on MHD, Plasma Applications, Power and Advanced Energy Technology (ICMPAAET2010)*. 21-23 May **2010**. Jomtien Palm Beach Hotel, Pattaya, Thailand.

23. **Rabia Qindeel**, K.T. Chaudhary, Saktioto, M. S. Hussain, Jalil Ali. Carbon Thin Films Deposition by KrF Pulsed Laser at Different Temperatures. *Nanotech Malaysia 2010, International conference on enabling science and nanotechnology*. December 1-3, **2010**, KLLCC, Kuala Lumpur Malaysia. (**Paper is Accepted for American Institute of Physics under IEEE**)

24. **Rabia Qindeel**, K.T. Chaudhary, Saktioto, M. S. Hussain, Jalil Ali. Detection and Investigation of Carbon Ions Induced by Nd:YAG laser using SSNTDs. *Nanotech Malaysia 2010, International conference on enabling science and nanotechnology*. December 1-3, **2010**, KLLCC, Kuala Lumpur Malaysia. (**Paper is Accepted for American Institute of Physics under IEEE**)

25. Nek M Shaikh, M.S. Kalhoro, N. Amin, Y. Jamil, **Rabia Qindeel** and M.A.Baig. Effect of the Ambient Pressure on the Stainless Steel Plasma Produced by Laser – Ablation. *International Committee of Analysis for Steel and Iron Industry*. *ICASI 2010 conference*. 12 -15 Sep **2010.**

26. Mastura Shafinaz Zainal Abidin, Maneea Eizadi Sharifabad, Abdul Manaf Hashim, Shaharin Fadzli Abd Rahman, Abdul Rahim Abdul Rahman, **Rabia Qindeel** , Nurul Afzan Omar, Azlan Abdul Aziz, Md. Roslan Hashim and Magdy Hussien Mourad Mohamed. Gateless-FET Undoped AlGaN/GaN HEMT Structure for Liquid-Phase Sensor, *2010 IEEE International Conference on Semiconductor Electronics* , 28-30 June **2010**, Melaka, MALAYSIA.

27. S. J. Wang, Z. A. Mastura Shafinaz, E. S. Maneea, A. R. Shaharin Fadzli, H. Abdul Manaf, A.R. A. Rahim and **Rabia Qindeel.** Fabrication and Characterization of GaN-Based Gateless FET for Liquid Sensing. *Regional Annual Fundamental Science Symposium **2010***, 8-9 June 2010, Kuala Lumpur, MALAYSIA.

28. Zahra Ali, **Rabia Qindeel**, Jalil Ali, Saktioto, Lee Sing, N. A. D. Khatak, Role of Radiation Self Absorption in Dense Plasma Focus. *Diagnostics Development for Plasma Focus Seminar on Plasma Focus Experiments (SPFE 2010).* Centre for Plasma Research INTI International University, 27th August **2010.**

29. Mastura Shafinaz Zainal Abidina, Wang Soo Jeata, Abdul Manaf Hashima, Shaharin Fadzli Abd Rahmana, Maneea Eizadi Sharifabada, Nurul Afzan Omarc and **Rabia Qindeel**. Fabrication and Characterization of Liquid-Phase Sensor utilizing GaN-Based Two Terminal Devices. *American Institute Physics conference proceeding AIP* (**2010** International Conference on Enabling Science and Nanotechnology).

30. **R. Qindeel**, M. Anwari, N. Harada. Theoretical expression of magnetohydrodynamic accelerator performance with non-equilibrium plasma. *2009 IEEE International Conference on Plasma Science*, San Diego, California USA. May 31 - June 5, **2009.**

31. N. Bidin, **R. Qindeel**, M. Yaccob. Study the non-linear effects by focusing the high power laser. *2009 IEEE International Conference on Plasma Science*, San Diego, California USA. May 31 - June 5, **2009.**

32. **Rabia Qindeel**, Ricardo Elgul Samad,Paulo Sergio Fabris de Matos, Anderson Zanardi Fragnito, Edilson Lucena Falcao Filho, Nilson Dias Vieira Junior. "Harmonic Generation in Argon by Femtosecond Ti:Sapphire Laser". 13th International Conference on X-ray Laser. Paris, June 11-15, **2012**.

33. **Rabia Qindeel,** Ricardo Elgul Samad,Paulo Sergio Fabris de Matos, Anderson Zanardi Fragnito, Edilson Lucena Falcao Filho, Nilson Dias Vieira Junior. "Influence of gas pressure on High Harmonic generation on Argon". Latin America Optics & Photonics Conference. Maresias Beach Hotel, São Sebastião, Brazil. November 10-13, 2012. https://doi.org/10.1364/LAOP.2012.LM4A.2.

34. **Rabia Qindeel**, Ricardo Elgul Samad,Paulo Sergio Fabris de Matos, Anderson Zanardi Fragnito, Edilson Lucena Falcao Filho, Nilson Dias Vieira Junior. "Harmonics Generation in Argon by Ultrashort Laser Pulses". XXXV Encontro Nacional de Fisica da Materia Condensada. Aguas de Lindoia, Sao Paulo. May 14-18, **2012**.

35. Syed Mansoor Ali, W. A. Farooq, **Rabia Qindeel**, M. R. Baig, M. A. Shar, S. S. Alghamdi, M. S. Algarawi, Influence of gamma irradiation on the structural and optical properties of nanostructured Magnesium doped SnO thin films. *International Nanoscience and Nanotechnolgy for Next Generation (NaNoNG) 2014***),** 20-22 August **2014**, Turkey.

36. W.A. Farooq, A.S. Al-Johani, Waid Towfik, **Rabia Qindeel**, Study of plasma and identification of hazardous elements in the polystrene using Laser Induced Breakdown Spectroscopy. *North American Society for Laser-Induced Breakdown Spectroscopy*. 27 September - 2 October, **2015**, Providence, RI, USA.

37. N. Alonizan, **Rabia Qindeel**, N. Ben Nessib, S. Sahal Brechot and M.S. Dimitrijevic. Stark broadening parameters for neutral oxygen spectral lines. *10th Serbian Conference on Spectral line shapes in*

Astrophysics. 5-19 June, **2015**, Serbia.

38. **Rabia Qindeel**, N. Alonizan, N. Ben Nessib. Atomic data for transitions in Neutral Carbon. *10th Serbian Conference on Spectral line shapes in Astrophysics.* 5-19 June, **2015**, Serbia.

39. **Rabia Qindeel**, W.A. Farooq, Hamdah S. Alanazi, Norah Alonizan, Leda G. Bousiakuom M. Atif. Characterization of multi-layered TiO_2-ZnO-TiO_2 nano structured thin film prepared by sol-gel spin coating system. 2nd International Conference on Nanoscience and Nanotechnology for Next generation (NaNoNg 2015) Antalya – Turkey, 29-31 October **2015**.

40. **Rabia Qindeel**, W.A. Farooq, Norah Alonizan. Effect of Gamma Radiation on Morphological & Optical Properties of ZnO nano powder. 2nd International Conference on Nanoscience and Nanotechnology for Next generation (NaNoNg 2015) Antalya – Turkey, 29-31 October **2015**.

41. T. Ganetsos, J. Kovac, J. Kovac Jr., Leda G. Bousiakou, Rabia Qindeel, W.A.Farooq, "Characterisation of ZnO nanowiresfor optoelectronics applications, Micro & Nano conference, 4-9 October, Glyfada- Athens, Greece, **2015**.

42. Leda G. Bousiakou, Rabia Qindeel, E. Manzou, H. Kalkani, A.S. Almuzaini, "Nanotoxicity assessment of TiO_2 using Daphnia Magna, Ceriodaphnia Dubia and Desmodemus Susbsicatus, Nanoforum, 29 September to 2 October, Milano Italy, **2015**.

Work Shops:

1. S M Zafar Iqbal, **Rabia Qindeel**, Saktioto, Jalil Ali and Sing Lee. Radiation Cooling Effect in Plasma Focus Devices using Shock Wave Phenomenon. International Workshop on Plasma Diagnostics & Applications. 2-3, July **2009** @ National Institute of Education, NTU, Singapore.

2. **Rabia Qindeel.** Workshop on Publication in High Impact Journal. 30-31 July **2009** @ Pusat Latihan Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia.

3. **Rabia Qindeel**. Workshop on Conversation of Mathematical Modeling to an Efficient Digital Subroutine Library. 1st June **2010** @ Ibnu Sina Institute, Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia.

4. **Rabia Qindeel**, Anderson Zanardi Fragnito, Ricardo Elgul Samad and Nilson Dias Vieira Junior. "Generation of High harmonics" Workshop CePOF / Fotonicom. 2nd December **2011**. Vitoria Hotel, Campinas - SP, Brazil.

5. **Rabia Qindeel**, Skills of Academic Advising, 24 January **2016**. King Saud University, Kingdom of Saudi Arabia.

Supervise and Co-Supervise Research Students (MSc)

1. **Iqram Addulkarim Al-Dawood**

Synthesis of copper doped ZnO nano-structured films by sol-gel spin coating technique and their physical properties for optoelectronic applications

2. **Nafeesah Abdul Rahim Yaqoob**

Atomic and collisional data for neutral chromium in plasma

3. **Awatef Saleem Al-Johani**

Elemental Analysis and Determination of Plasma Parameters of Selected Polymers in Vacuum by LIBS Technique

4. **Mona Awaiz Khalawi Al-Moteiry**

Investigation of different polymers using Laser induced Breakdown Spectroscopy

5. **Manar Tariq Saleh Ba-Aziz**

Impact of thermal annealing on the physical properties of nanostructured ZnO:Sn films prepared by sol-gel route

6. **Bisma Abdul Basit Madkhali**

Synthesis and characterization of potassium ferrate (K_2FeO_4) for application in contaminated water samples

7. **Hind Masaad Al-Ateeq**

Effect of UV radiation and impurities on the optical and structural properties of graphene film

HOBBY

Books Reading, Music, Traveling, Antiques Collection

LANGUAGES

English, Portuguese, Malay, Urdu, Punjabi