

## **DR. RABIA QINDEEL**

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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](mailto: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) 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> Jan. 2001 to 31<sup>th</sup> Dec. 2003)

**Teacher:**

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

**Lecturer:**

Government Degree College For women  
Lodhran Bahawalpur Pakistan  
(From 1<sup>st</sup> Jan. 1995 to 30<sup>th</sup> 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 Intelllicam7.1, 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

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

## Patent

- 1- Synthesis of Probiotic Nanoparticles. Application No.16239277. Client Reference: 00867. Attorney Docket Number: 33007.19., US 10,363,218 B1. 30 July **2019**. USPTO.
- 2- Synthesis of Silica Nanoparticles from White Sand. Docket No. 33007.90. Client Reference: 122018-00899., 10- JAN- 2019. Docket No. 33007.90. USPTO.
- 3- Synthesis of Mustard Nanoparticles and their use as an Anticancer Agent. Client Reference: 102018-00883. Docket No. 33007.47., US 10,398,744 B1, 30 July **2019**. USPTO.

## PUBLICATIONS

### Journal:

1. **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**.
2. 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**.
3. **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**.
4. 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-

5. **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**.
6. 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**.
7. **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**.
8. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud., Plasma Induced by Laser-glass interaction, *Journal of Solid States Science and Technology. Letters*, Vol. 14, No. 2, 157-163, **2007**.
9. **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**.
10. Tanuj Saxena, Munawar Riyadi, Norhana Hussain, Razali Ismail, **Rabia Qindeel**, and Vijay K. Arora, Carrier Statistics in Low Dimensional Nanostructures, *IEEE-RSM Proc.* Kota Bahru, Malaysia, **2009**.
11. Tanuj Saxena, Rachana Vidhi, Munawar Riyadi, Nasyrah Yacob, **Rabia Qindeel**, and Vijay K. Arora, Re-examination of Voltage and Current Divider Nano-Circuits in the Non-Ohmic Domain, *IEEE-RSM Proc.*, Kota Bahru, Malaysia, **2009**.
12. 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**.
13. **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**.
14. **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**.
15. Maneea Eizadi Sharifabad, Abdul Manaf Hashim, Shaharin Fadzli Abd Rahman, Mastura Shafinaz Zainal Abidin, Faraiyah Mustafa, Abdul Rahim Abdul Rahman, **Rabia Qindeel** and Nurul Afzan Omar, "Open-Gate Undoped-AlGaN/GaN HEMT Structure for pH Sensing Application. *Journal of Materials Science and Engineering, USA*, ISSN

16. 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.
17. **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.
18. **Rabia Qindeel**, K.T. Chaudhary, K.A. Bhatti, M. S. Hussain, Jalil Ali, Saktioto, Investigation of Carbon thin films by pulsed laser deposition at different temperatures, *Optoelectronics and Advanced Materials – Rapid Communications*. Vol. 4, No. 11, p. 1728 – 1732, 2010.
19. H. M. Hairi, T. Saktioto, S. Nafisah, M. Fadhal, **Rabia Qindeel**, P. P. Yupapin, and J. Ali, Multi-photons Trapping Stability within a Fiber Bragg Grating for Quantum Sensor Use, *PIERS Proceedings, Xi'an, China*, March 22-26, 2010.
20. F.D. Ismail, T. Saktioto, M. Fadhal, 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.
21. **Rabia Qindeel**, Noriah Bidin, Yacob 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.
22. **Rabia Qindeel**, Noriah Bidin, R. Zia, Yacob 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.
23. **Rabia Qindeel**, Munawar Riyadi, Mohammad Taghi Ahmadi, Vijay K. Arora. Low-Dimensional Carrier Statistics in Nanostructures. *Journal of Current NanoScience*. Volume7, No. 2, 2011.
24. 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.
25. 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.
26. Rabia Qindeel, Ricardo Elgul Samad, Anderson Zanardi de Freitas, Paulo Sergio Fabris de Matos, Edilson Lucena Falcão, Nilson Dias Vieira Junior, Harmonic Generation in Argon by Femtosecond

Ti:Sapphire Laser, *X-ray Lasers 2012*, Springer proc. in Physics, Vol. 147, pp 209-213, (2012).

27. 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**.

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

29. **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**.

30. 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**.

31. Leda Bousiakou, Theodore Ganetsos, **Rabia Qindeel**, W. A. Farooq, Amanullah Fatehmulla, Syed Mansoor Ali, ”Characterization of multilayer TiO<sub>2</sub>/ZnO nanostructured thin films using Raman Spectroscopy”, *Optoelectronics and Advanced Materials - Rapid Communications*, Vol. 9, 5-6, May-June **2015**.

32. 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**.

33. **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”. *Organic Opto-Electronics An International Journal*. Vol. 1, No. 1, 17-24, **2015**.

34. 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), 661-669, **2015**.

35. **Rabia Qindeel**, Leda G. Bousiakou, Walid Tawfik, W.A. Farooq, Norah H. Alonizan, Salwa Alsaled 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**.

36. 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**.

37. 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**.
38. 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<sub>2</sub> thin films, deposited by Sol-Gel Technique". *Results in Physics*, Vol. 6, 156-160, **2016**.
39. 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**.
40. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Leda G. Bousiakou, Norah Alonizan, "Comparative study of multilayered ZnO/TiO<sub>2</sub>/ZnO and TiO<sub>2</sub>/ZnO/TiO<sub>2</sub> 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**.
41. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Leda G. Bousiakou, Norah Alonizan, "Structural, Morphological, Optical and Electrical properties of 1% Cu doped TiO<sub>2</sub> multilayer nano structured thin films deposited by Sol-Gel spin coating technique", *Optoelectronics and Advanced Materials - Rapid Communications*, 19, 538-542, **2017**.
42. **Rabia Qindeel**, "Effect of gamma radiation on morphological & optical properties of ZnO nanopowder" *Results in Physics*, Vol. 7C, pp. 807-809, **2017**.
43. 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 TiO<sub>2</sub> 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**.
44. 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**.
45. M.I. Khan, K.A. Bhatti, **Rabia Qindeel**, Hayat S. Althobaiti, Norah Alonizan, "Structural, electrical and optical properties of multilayer TiO<sub>2</sub>

thin films deposited by sol-gel spin coating”, *Results in Physics*, 7, 1437-1439, **2017**.

46. **Rabia Qindeel**, Norah H. Alonizan, “Structural, dielectric and magnetic properties of cobalt based spinel ferrites”. *Current applied Physics*, 18(2018), 519-525, **2018**.

47. M.I. Khan, Muhammad Saleem, Saif Ur Rehman, **Rabia Qindeel**, Muhammad Sajjad Ul Hassan, Ishaq Ahmad, Hayat Saeed Althobaiti, “Efficiency variation of composite films Dye-Sensitized Solar Cells at different annealing temperature”. *Journal of Nanoelectronics and Optoelectronics*, 13(7), 1090-1095 (6), **2018**.

48. **Rabia Qindeel**, “Synthesis and characterization of Co-Zn based spinel ferrites”. *Material Research Express*, Volume 5 (2018) 086101, Number 8, **2018**.

49. Norah H. Alonizan, **Rabia Qindeel**, “Structural and magnetic properties of ytterbium substituted spinel ferrites” *Applied Physics A (Materials Science & Processing)*, 2018, 124:408, 1-7, **2018**.

50. A. Dere, B. Coskun, A. Tataroğlu, Abdullah G. Al-Sehemi, Ahmed A. Al-Ghamdig, Hind M.A. Alateeq, **Rabia Qindeel**, W.A. Farooq, F. Yakuphanoglu, “Boron doped graphene based linear dynamic range photodiode” *Physica B: Condensed Matter*, 545 (2018) 86-93, **2018**.

51. Nafeesah Abdul Rahim Yaqub, **Rabia Qindeel**, Norah Alonizan and Nabil Ben Nessib, “Expectation Values of the Neutral Chromium Radius”. *Atoms 2018*, 6, 51, pp 1-5, **2018**.

52. N. Alonizan, S. Rabaoui, K. Omri, **Rabia Qindeel**, “Microstructure and luminescence properties of ZnO:Mn nano-particles and ZnO:Mn/TiO<sub>2</sub> nano-composite synthesized by a two-step chemical method”, *Applied Physics A (2018)*, 124:710, **2018**.

53. W. A. Farooq, Awatef. S. Al-Johani, M.S Alsalhi, W. Towfik, **Rabia Qindeel**. “Analysis of polystyrene and polycarbonate used in manufacturing of water and food containers using Laser Induced Breakdown Spectroscopy”. *Journal of Molecular Structure*, 1201 (2020) 127152, **2019**.

54. **Rabia Qindeel**, Norah H. Alonizan, “Improved structural and magnetic properties of Polypyrrole substituted spinel ferrites composites”, *Materials Science & Engineering B* 244 (2019) 43–48, **2019**.

## Conferences:

1. **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.

2. **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
3. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Characterization the output of Nd:YAG laser beam. 1<sup>st</sup> National Colloquium on Photonics 29<sup>th</sup>-30<sup>th</sup> Nov. **2005** ESSET, KAJANG Malaysia.
4. **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.
5. **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
6. **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.
7. **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
8. **Rabia Qindeel**, Noriah Bidin and Yaacob B. Mat Daud. Infrared Laser Plasma Interaction with Glass. 2<sup>nd</sup> International Conference on Solid State Science and Technology (ICSSST) 4-6 September, **2006**. Kuala Terengganu, Terengganu Darul Iman, 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. Dynamics expansion of laser produced plasma with different materials in magnetic field. 12<sup>th</sup> International Conference on Electrostatics. March 25<sup>th</sup> -29<sup>th</sup> **2007**, Oxford UK
12. **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.

13. **Rabia Qindeel**, Makbul Anwari and Sukarsan. Overview of Numerical Simulation for the Performance of MHD Accelerator using Air-Plasma. The 1<sup>st</sup> International Meeting on Advances in Thermo-Fluid 26<sup>th</sup> 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 S Lee, "NUMERICAL STUDY OF RADIATION COOLING EFFECT IN PLASMA FOCUS DEVICES USING DEUTERIUM and NOBLE GASES", 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 Yacob, **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.
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29-31 October **2015**.

41. **Rabia Qindeel**, W.A. Farooq, Norah Alonizan. Effect of Gamma Radiation on Morphological & Optical Properties of ZnO nano powder. 2<sup>nd</sup> International Conference on Nanoscience and Nanotechnology for Next generation (NaNoNg 2015) Antalya – Turkey, 29-31 October **2015**.
42. 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**.
43. Leda G. Bousiakou, **Rabia Qindeel**, E. Manzou, H. Kalkani, A.S. Almuzaini, “Nanotoxicity assessment of TiO<sub>2</sub> using Daphnia Magna, Ceriodaphnia Dubia and Desmodemus Susbsicatus, Nanoforum, 29 September to 2 October, Milano Italy, **2015**.
44. W. A. Farooq, Awatef. S. Al-Johani, M.S Alsalhi, W. Towfik, **Rabia Qindeel**. “Analysis of polystyrene and polycarbonate used in manufacturing of water and food containers using Laser Induced Breakdown Spectroscopy”. OEMT conference in Turkey, 20 September, **2018**.
45. A. Fatehmulla, I. A. AlDawood, **Rabia Qindeel**, A.M. Aldhafiri, A.A. Albassam, W.A. Farooq, F. Yakuphanoglu, “Bandgap tuning and strong blue-green band emissions of sol-gel synthesized ZnO films by high Cu doping”. 3rd International Conference on Organic Electronic Material Technologies (OEMT2018) Sept. 20-22, **2018**, Kırklareli / Turkey.

### **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. 1<sup>st</sup> 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. 2<sup>nd</sup> 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

