Web: http://fac.ksu.edu.sa/awazirzada/home

**OBJECTIVE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Seeking a fulfilling work experience with a reputed institute that operates in a meritocratic environment, encourages progressive research, and will allow me to utilize my education, skills and experience effectively to contribute towards its success.

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Imperial College London*, U.K (1992)***

Ph.D Physics (Laser Spectroscopy)

**Thesis**: f-Value Measurements for Sr, Mg, and Cd to High Rydberg Members by Pulsed Laser

Based Magneto-Optical Spectroscopy

* **Queen Mary College University of London, *U.K. (1988)***

MS. Nuclear Engineering

* **Gomal University Dera Ismail Khan*, Pakistan***  ***(1978)***

MSc Physics

**PROFESSIONAL EXPERIENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **King Saud University, *KSA (Sept 2009-Present)***

*Professor of Physics at College of Science*

1. Teaching Laser Physics, Laser applications, Laser material interaction, General Physics and Modern Physics to undergraduates.
2. Teaching Atomic & Molecular Physics, Lasers & their applications and Laser material interaction to Postgraduates.

**Research Projects:**

Two projects approved of NPST (2 million SR grant for each).

1. Highly Efficient Quantum Dots Sensitized Solar Cells (QDSSCs) Based on Nano-Metal Oxide Semiconductors.
2. Fabrication and characterization of thermoelectric nanocomposite materials for sustainable energy technologies.

* **Pakistan Institute of Laser and Optics (PILO) *(1992-2009)***

*Head (Chief Scientific Officer)*

1. Set up Laser Material Processing facilities and supervised following activities:

* Laser cutting, welding, heat treatment with different materials using 50W to 2.5KW CO2 lasers.
* Laser marking and engraving with Nd:YAG / CO2 lasers
* Scoring of Ceramic with Nd:YAG laser.
* Generation of nano-particles of Sm/ Co using lasers
* Etching of quartz in micron range. Wet etching of quartz with excimer laser.

1. Set up laboratory for laser spectroscopy equipped with Excimer pumped dye laser, atomic beam chamber, thermionic diode and data acquisition system. Performed multi-photon excitation and ionisation experiments.
2. Design, development and fabrication of laser systems. 200 W slow flow CW CO2 and 2mJ Pulsed Nitrogen lasers.
3. Excellent background in the development of vacuum systems for various applications.

* **COMSATS University, *Islamabad (2006-2009)***

*Visiting Professor, Physics Department*

Taught Laser Physics and its applications to postgraduates.

* **Alama Iqbal Open University, *Islamabad (2006-2009)***

*Visiting Professor Physics Department*

Taught Laser Physics and its applications to postgraduates.

* **Army Public College of Management and Sciences*, Islamabad (2001-2009)***

*Professor Physics Department*

Taught Physics to undergraduate students of Electrical Engineering, Software Engineering and Telecom Engineering.

**HONORS & AWARDS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Awarded postdoctoral fellowship by **Beckman Institute of lasers University of California U.S.A** in **2001**.
* Awarded ***Tamgha-e-Baqa*** by president of Pakistan for recognition of hard work and best performance in **1998**.
* Awarded **Science and Technology scholarship** for higher education in advanced countries in **1985**.
* Awarded **Merit scholarship during postgraduate studies** in **1977**.
* I have been selected to receive **funding support for supervision of Ph.D**. level students under the scholarship programmes of the **Ministry of Science and Technology.**

**OTHER RELEVANT EXPERIENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Thesis Examined:**
* Ph.D Thesis Quaid-i-Azam University Islamabad Pakistan. Title: *Laser Spectroscopic Studies of Bound and Autoionizing Spectra of Tin.* By Ali Nadeem
* M.Phil Thesis Quaid-i-Azam University Islamabad Pakistan. By Muhammad Rafiq.
* MS Thesis Pakistan Institute of Engineering & Applied Sciences(PIEAS) Islamabad Pakistan. Title: *Laser/IR based Remote Surveillance System.* By NasimUllah
* M.Phil Thesis Allama Iqbal Open University Islamabad Pakistan. Title: *Laser Indused Breakdown Spectroscopy Of Optical Crystals*. By Muhammad GulfamMazhar.
* Ph.D Thesis Quaid-i-Azam University Islamabad Pakistan. Title: Studies on the Ultra Cold Rubidium Rydberg Atoms.

*(4 MS and one PhD thesis examined in King Saud university)*

* **External Examiner for MSc, M.Phil and Ph.D:**
* Quaid-i-Azam University Islamabad, Pakistan
* Gomal University Dera Ismail Khan, Pakistan
* Pakistan Institute of Engineering & Applied Sciences(PIEAS) Islamabad, Pakistan.
* Alama Iqbal Open University (AOU) Islamabad, Pakistan.
* Federal Urdu University Islamabad, Pakistan
* King Saud University Riyadh Saudi Arabia.
* **Thesis Supervised:**
  + **8 MS thesis supervised in King Saud University.**
* **Courses Taught**
* Phys-145 -general Physics for medical students- undergraduates
* Phys-104 - general Physics for computer engineering students - undergraduates
* Phys-103 - general Physics for engineering students - undergraduates
* Phys-335- Laser and Applications- undergraduates
* Phys-435- Laser Physics – undergraduates
* Phys-331- Optics- undergraduates
* Phys-456- Atomic and molecular Spectroscopy - undergraduates
* Phys-536- Atomic and molecular Spectroscopy-graduate
* Phys-532- Advance Laser Physics- graduate
* Phys-633- Laser material interaction-Post graduate
* Phys-637- Optical Instrumentation-Post graduate

**RESEARCH PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Atomic f-value measurements of high rydberg members by pulsed laser based magneto-optical spectroscopy. J.P.Connerade, **W.A.Farooq**, H. Ma, M. Nawaz and N. Shen (1992) J.Phys. B: 25 1405
2. On anomalies in the high Rydberg spectrum of Sr.M.Nawaz, **W.A.Farooq**, J.P. Connerade (1992) J.Phys.B: 25 1147
3. Magneto-optical rotations in vacuum ultraviolet. **W.A.Farooq**, M.Nawaz, J.P. Connerade and J. P. Morangos (1992) J.Phys.B: 25 4141.
4. Magneto-optical spectroscopy of autoionizing resonance’s. P.Connerade, **W. A.Farooq** and Nawaz (1992) J.Phys B: 25 L181.
5. The influence of the Paschen-Back effect on magneto-optical rotation spectra. M. Nawaz, **W.A. Farooq**, J. P. Connerade (1992) J.Phys B: 25 3283.
6. Magneto-optical spectra of Lithium and Sodium. M. Nawaz, **W.A. Farooq**, J.P.Connerade (1992) J. Phys B: 25 5327.
7. Many-electron atoms in high magnetic fields J. P.Connerade, G. Droungas, R. Elliott, X He, N.Karapanagioti, W. A. Farooq, H. Ma, J. P. Marangos and M. Nawaz (1994) J Phys B: 27, 2753.
8. **W.A.Farooq**. “Laser: a super tool of the century” (1995) VISION COMSATS Vol 1, 52.
9. **W.A.Farooq.** “ Gas Lasers” (1996). VISION COMSATS Vol 4.
10. **W. A. Farooq**, K. Ahmed, A. Rashid, S. Shahdin& M. A. Atta; “Study of single and two photon ionization of resonance excitation of sodium atom”, Proceeding of 7th National Symposium on “Frontier in Physics” Quaid-i-Azam University, Islamabad (19-21 November 1998) pp-88-94 (2001).
11. **W. A. Farooq**, K. Ahmed, S. Shahdin& M. A. Atta; “*Some results on the Laser Ionisation based on resonance saturation (LIBORS) in sodium Vapour*”, 11th International School on Quantum Electronics (*Laser Physics and Application*), P. A. Atanasova and S. Cartalevam, Editors (18-22 September 2000, Varna, Bulgaria) Proceedings of SPIE Vol. 4397, pp221-225 (2001).
12. **W.A.Farooq.** “Research on the high rydberg states of Strontium by using narrow band dye laser” Chinese Journal of Laser APLS-2000 Vol B10.
13. **W.A. Farooq** Research on autoionization resonances of Barium in magnetic field using narrow band Dye Laser: “Proceedings of the ninth National Symposium on Frontiers in Physics” pp192-199 (2003).
14. W. A.Farooq*. “f-value measurement of high Rydberg members for Mg & Cd by pulsed laser based magneto-optical spectroscopy”.* (Summer school Nathiagali Pakistan, October 1994)
15. W.A.Farooq*. “Laser based magneto-optical spectroscopy in Ultraviolet”*. (PIP Annual Conference Lahore Pakistan, April 1993)
16. W.A.Farooq*. “probe measurements of laser plasma obtained at laser ablation by means of N2 laser from YBa2Cu3O7-x”.* (8th International School Varna Bulgaria, September 1994)
17. W.A Farooq. A. Hamdani, S.Shahdin “*Generation of 100W CO2(10.6 micron) laser*” (PIP Annual Conference Bahawalpur Pakistan, May 1995)
18. A.Hamdani. W. A. Farooq, S.Shahdin “ *Paramitric studies of a high pulse power Nitrogen laser*” (PIP Annual Conference Bahawalpur Pakistan, May 1995)
19. W.A.Farooq. “*Introduction to Laser Technology*” International Workshop on Laser and Industrial Applications 16th September 1995, Islamabad Pakistan
20. A.Rauf, A. Hussain, R. Akhterc, **W.A. Farooq** and M. Aslam  **“***Role of Combustion Energy in Laser Cutting of Austenitic Stainless Steel”*Key Engineering Materials Vol. 442 (2010) pp 81-87
21. R. Akhter , A. Hussain, **W.A. Farooq** and M. Aslam “*Laser Surface Hardening of GCr15 Bearing Steel Ring” Key* Engineering Materials Vol. 442 (2010) pp 130-136.
22. M.M. Ashrafa, A. Hussain, R. Akhter, **W.A. Farooq** and M. Aslam “*Estimation of the Hardness for Laser Surface Hardening of Plain Carbon Steel”* Key Engineering Materials Vol. 442 (2010) pp 164-171
23. A.H. Hamdani, W. Ahmed, A. Ansar, R. Akhter, **W.A. Farooq** and M. Aslam “*Parametric Study of Ablation Depths for Different Optical Glasses Using High Fluence Laser Induced Plasma Assisted Ablation (LIPAA)”*Key Engineering Materials Vol. 442 (2010) pp 172-177
24. A.Hussain, R. Akhter, **W.A. Farooq** and M. Aslam “*LaserSurface Alloying of Ni-Co Electroplated Low Carbon Steel”* Key Engineering Materials Vol. 442 (2010) pp 137-143
25. A.A. Farag , B. Gunduz, FahrettinYakuphanoglu, **W. A. Farooq “** *Controlling of electrical characteristics of Al/p-Si Schottkydiod by tris(8-hydroxyquinolinato) aluminium organic film***”** Synthetic Metals 160 (2010) 2559-2563.
26. FahrettinYakuphanoglu, **W. A. Farooq** “*Threshold voltage control of 2,3 benzanthracene organic thin-film transistors by visible light for integration of transistors into electronic circuits*” Synthetic Metals 161 (2011) 51-55.
27. FahrettinYakuphanoglu, **W. Aslam Farooq “**[*The effect of SiO2 dielectric layer on ultraviolet detecting properties of pentacene thin film transistor*](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TY7-51NMYCP-3&_user=1454611&_coverDate=01%2F31%2F2011&_alid=1624592490&_rdoc=7&_fmt=high&_orig=search&_origin=search&_zone=rslt_list_item&_cdi=5611&_sort=d&_st=13&_docanchor=&view=c&_ct=27&_acct=C000052544&_version=1&_urlVersion=0&_userid=1454611&md5=6bc96735429d1b9c53978c4e1a8f8506&searchtype=a)” Synthetic Metals 161 (2011) 132-135.
28. FahrettinYakuphanoglu, **W. Asalm Farooq “***Flexible pentacene organic field-effect phototransistor”* Synthetic Metals. V-161, issue: 5-6, P 379-383, 2011
29. F. Yakuphanoglu, I.S. Yahia, B.F. Senkal, G.B. Sakr**, W. A. Farooq, “**Impedence Spectroscopy properties of Polypyrrole doped with boric acid”*Synthetic Metals*, *Volume 161, Issues 9-10*, *Pages 817-822, 2011*
30. Mehmet Enver Aydın , Murat Soylu , FahrettinYakuphanoglu , **W. A.Farooq**,“*Controlling of electronic parameters of GaAs Schottky diode by poly(3,4-ethylenedioxithiophene)-block-poly(ethylene glycol) organic interlayer*” Microelectronic Engineering, V-88, issue 6, P 867-871, 2011
31. I.S. Yahia, M.Fadel, G.B.Sakr, F.Yakuphanoglu, S.S.Shenouda, , **W. A.Farooq** “*Analysis of current–voltage characteristics of Al/p-ZnGa2Se4/n-Si nanocrystalline heterojunction diode”* Journal of Alloys and Compounds, V-509, issue 12, P 4414-4419, 2011
32. M. Soylu, F.Yakuphanoglu, **W. A Farooq**, “ [*The pinch-off effect and inhomogeneous barrier height analysis in Al/p-GaAs Schottky barrier diodes*](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=2EF89K43fEC4d3GFLgp&page=1&doc=4&colname=WOS)”.  OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS   Volume: 5   Issue: 1-2   Pages: 135-142, 2011.
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34. A. Ballestar, F. Yakuphanoglu, B.F Senkal, **W.A. Farooq**, “[*Electrical characterization with atomic force microscopy and low temperature transport properties of boric acid doped polyaniline with Fe3O4 nanoparcomposites*](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=2EF89K43fEC4d3GFLgp&page=1&doc=6&colname=WOS)”OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS   V-5   Issue: 1-2   Pages: 177 181, 2011
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36. F.Yakuphanoglu, **W.A.Farooq**, “[*Electrical characterization of ITO/PEDOT-PSS/MEH-PPV:PCBM organic diode*](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=2EF89K43fEC4d3GFLgp&page=1&doc=8&colname=WOS)” OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS   V- 5   Issue: 1-2   Pages: 186-190, 2011
37. I.S. Yahia, A.A .M. Farag, F. Yakuphanoglu,**W.A.Farooq** , “*Temperature dependence of electronics parameters of organic schottky diode based on fluorescein Sodium Salt*” Synthetic Metals, V-161,Issues 9-10,P 881-887
38. FahrettinYakuphanoglu, W. Aslam Farooq, “Organic*-inorganic photosensor controlled by frequency based on nanostructure 1,4-diaminoanthraquinone and p-silicon*”SYNTHETIC METALS   Volume: **161**   Issue: **3-4**   Pages: **324-329, (2011)**
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40. F. Yakuphanoglu, Y.S. Ocak, T. Kıl.ıçoğlu,**W.A.*Farooq****“*[Interface control and photovoltaic properties of n-type silicon/metal junction by organic dye](http://www.sciencedirect.com/science/article/pii/S0167931711004539?_alid=1760988080&_rdoc=16&_fmt=high&_origin=search&_docanchor=&_ct=37&_zone=rslt_list_item&md5=9c778b1e868b9ecdad9fcd122225874a)” Microelectronic Engineering,Volume 88, Issue 9, September 2011, Pages 2951-2954
41. FahrettinYakuphanoglu,**W. Aslam Farooq**, “[***Photoresponse and electrical characterization of photodiode based nanofibers ZnO and Si***](http://www.sciencedirect.com/science/article/pii/S136980011100059X?_alid=1760988080&_rdoc=32&_fmt=high&_origin=search&_docanchor=&_ct=37&_zone=rslt_list_item&md5=06a73bb6dd06f989b33f6230af6a47a6)” *Materials Science in Semiconductor Processing****, 14, 207-214 (2011).***
42. FahrettinYakuphanoglu, **W. Aslam Farooq**, “[***Electronic and Photovoltaic Properties of p-Si/PCBM:MEH-PPV Organic-Inorganic Hybrid Photodiode”***](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=R1AHl874m7mFlMjag9p&page=1&doc=1)ActaPHYSICA POLONICA A  Volume: **119**   Issue: **6**   Pages: **890-894**   Published: **JUN 2011**
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45. I. S. Yahia, M. Fadel, B, G, Sakr, W. A. Farooq, “ Impedance Spectroscopy of Nanostructure p-ZnGa(2)Se(4)/n-Si Hetrojunction Diode” PHYSICA POLONICA A  Volume: **120**   Issue: **3**   Pages: **563-566**   (2011)
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49. W. A. Farooq, F. N. Al\_Mutairi, A. E. M. Khater, A. S. Al\_Dwayyan, M. S. AlSalhi, and M. Atif**, “**ELEMENTAL ANALYSIS OF FERTILIZER USING LASER INDUCED BREAKDOWN SPECTROSCOPY” *Optics and Spectroscopy, , Vol. 112, No. 6, pp. 874–880 (2012)*
50. RavikumarRamakrishnaiah, Wazirzada Aslam Farooq, Abdul-Aziz Abdullah Al Kheraif, Saad bin Qasim and Abdullah Saleh Aldwayyan*, “*Laser Induced Breakdown Spectroscopic Analysis of Dental Elastomeric Impression Materials**”** Middle-East Journal of Scientific Research 11 (8): 1003-1008, 2012
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53. **W. A. Farooq**, AmanullahFatehmulla, K. Ocakoglu, F. Yakuphanoglu, “THE CHARGE TRANSPORT AND PHOTOCONDUCTION MECHANISMS OF TiO2-BASED DYE SENSITIZED SOLAR CELL” IEEE explore 2012. DOI:[10.1109/HONET.2012.6421439](http://dx.doi.org/10.1109/HONET.2012.6421439)
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56. **W.A. Farooq**, M.R. Baig, A. Fatehmulla, M.S. Al-Salhi , S.S. Al-Ghamd and F. Yakuphanoglu, “Controlling of Optical Band Gap of Allyl Diglycol Carbonate Polymer with Ultraviolet Laser Radiation” ACTA PHYSICA POLONICA A Vol. 123 (2013)
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66. WalidTawfik, W Aslam Farooq, and Z. A. Alahmed, “Damage Profile of HDPE Polymer using Laser-Induced Plasma” Journal of the Optical Society of Korea Vol. 18, No. 1, February 2014, pp. 50-54
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152. El-Nasser, H.M. Mensah-Darkwa, K, Al-Senany, N, Al-Ghamdi, A, Gupta, R.K. Farooq, W.A, El-Tantawy, F, Yakuphanoglu, F.. “A Functional Material Based Heterojunction Diode” , SILICON Volume: 10 Issue: 3 Pages: 737-746 Published: MAY 2018.
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156. A Tataroğlu, C Ahmedova, G Barim, Abdullah G Al-Sehemi, Abdulkerim Karabulut, Ahmed A Al-Ghamdi, WA Farooq, F Yakuphanoglu “Electronic and optoelectronic properties of Al/coumarin doped Pr2Se3–Tl2Se/p-Si devices” Journal of Materials Science: Materials in Electronics, 29-15, p- 12561-12572, 2018.
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165. Emine Aldırmaz, Adem Tataroğlu, Ayşegül Dere, Melek Güler, Emre Güler, Abdülkerim Karabulut, F Yakuphanoglu, “Cu-Al-Mn shape memory alloy based Schottky diode formed on Si”, Physica B: Condensed Matter, V 560, 261-266, 2019.
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167. Mohamed B Zakaria, Victor Malgras, Takahiro Nagata, Jeonghun Kim, Yoshio Bando, Amanullah Fatehmulla, Abdullah M Aldhafiri, W Aslam Farooq, Yohei Jikihara, Tsuruo Nakayama, Yusuke Yamauchi, Jianjian Lin “Gold nanoparticles anchored on mesoporous zirconia thin films for efficient catalytic oxidation of carbon monoxide at low temperatures” Microporous and Mesoporous Materials, 2019(ACCEPTED)..
168. Peng Mei, Yusuke Yamauchi, Malay Pramanik, Amanullah Fatehmulla, Abdullah M Aldhafiri, W Aslam Farooq, Yoshio Bando, Muhammad Shiddiky, Yusuf Valentino Kaneti, Jianjian Lin, Yena Kim, “Hard-templated preparation of mesoporous cobalt phosphide as an oxygen evolution electrocatalyst”, Electrochemistry Communications, 2019(ACCEPTED)..
169. MI Khan, Aamer Shehzad, WA Farooq, Muhammad Irfan, MS Hasan, M Atif, Atif Hanif, “900 keV Au ions implantation effect on the efficiency of dye sensitized solar cells”, Results in Physics, pp102425, 2019.
170. MI Khan, MA Rehman, M Saleem, MR Baig, S Rehman, WA Farooq, M Atif, Atif Hanif, “Synthesis and characterization of nanostructured photoanodes for dye sensitized solar cells”, Ceramics International, 2019(ACCEPTED)..
171. Alowasheeir Azhar, Mohamed Barakat Zakaria, Jeonghun Kim, Jongbeom Na, Yusuf Valentino Kaneti, Amanullah Fatehmulla, Abdullah M Aldhafiri, W Aslam Farooq, Yoshio Bando, Yusuke Yamauchi, Jianjian Lin, “Single Crystal Growth of Two-Dimensional Cyano-Bridged Coordination Polymer of Co(H2O)2Ni(CN)4·4H2O Using Trisodium Citrate Dihydrate”, Bulletin of the Chemical Society of Japan, 2019(ACCEPTED)..
172. MI Khan, WA Farooq, Muhammad Saleem, KA Bhatti, M Atif, Atif Hanif, “Phase change, band gap energy and electrical resistivity of Mg doped TiO2 multilayer thin films for dye sensitized solar cells applications”, Ceramics International, 2019 (ACCEPTED).
173. Seemab Iqbal, Muhammad Fakhar-e-Alam, M Atif, N Amin, KS Alimgeer, Adnan Ali, Atif Hanif, W Aslam Farooq, “Structural, Morphological, Antimicrobial, and In Vitro Photodynamic Therapeutic Assessments of Novel Zn+ 2-Substituted Cobalt Ferrite Nanoparticles”, Results in Physics, pp102529, 2019.
174. Seemab Iqbal, Muhammad Fakhar-e-Alam, Fozia Akbar, M Shafiq, M Atif, N Amin, Muhammad Ismail, Atif Hanif, W Aslam Farooq, “Application of silver oxide nanoparticles for the treatment of cancer”, Journal of Molecular Structure, 1189, 202-209, 2019.
175. MW Akram, F Raziq, M Fakhar-e-Alam, MH Aziz, KS Alimgeer, M Atif, “Tailoring of Au-TiO2 Nanoparticles conjugated with Doxorubicin for their Synergistic Response and Photodynamic Therapy Applications” Journal of Photochemistry and Photobiology A: Chemistry, 112040, 2019.

Note: 2 papers are in process

**Reviewer of the following journals**:

1. Journal of Alloys and Compounds
2. Journal of Inorganic Materials
3. Microelectronic Engineering
4. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
5. Synthetic Metals
6. Silicon
7. Surface Review and Letters
8. Materials Science in Semiconductor Processing
9. Photodiagnosis and Photodynamic Therapy
10. Surface Review and Letters
11. Journal of Optoelectronics and Advanced Materials
12. Journal of Molecular Structure
13. Applied Optics-OSA
14. Optik

**Conference presentations:**

* **Eighth International School On Quantum Electronics, Laser, Physics And Applications**

**29th September to 4th October 1994, Varna, Bulgaria.**

**Presentation:** *probe measurements of laser plasma obtained at laser ablation by means of N2 laser from YBa2Cu3O7-x*

* **The Second Asian Pacific Laser Symposium (APLS, 2000) August 21 to 24, 2000,Shanghai, China**.

**Presentation**: *Research on the high rydberg states of Strontium by using narrow band dye laser*

* **11th International School On Quantum Electronics, Laser, Physics And Applications**

**18th September to 22nd September 2000, Varna, Bulgaria**.

**Presentation**: *Some results on the Laser Ionisation based on resonance saturation (LIBORS) in sodium Vapour*

* **Saudi International Electronics, Communications and Photonics**Conference**Riyadh, Saudi Arabia**April**23rd - 26th 2011.  (**KACST)

**Presentation:***CO2 laser induced micro structural variation in alpha-irradiated Polyallydigycol polymer*

* **3rd NASLIBS 2011:  July 18-20, 2011 in Clearwater Beach, FL, USA.**

**Presentation:**Analysis of Rocks around Capital of Kingdom of Saudi Arabia Using Laser Induced Breakdown Spectroscopy

* **International Laser Physics Workshop (LPHYS’ 12), 23-27 July 2012, Calgary, Canada**

**Presentation:***Elemental Analysis of Alumina- TiC composite using Laser Induced Break down Spectroscopy.*

* **7th International Conference On Laser Induced Breakdown Spectroscopy (LIBS 2012), 29 Sept- 4 Oct 2012, Luxor-Egypt**

**Presentation:** *Role of purging gases in analysis of polycarbonate with Laser Induced Breakdown Spectroscopy.*

* **9th INTERNATIONAL CONFERENCE, (HONET-2012), 12-14 Dec 2012, Istanbul Turkey**

**Presentation:** *Synthesis and Electrical Characterization of Dye-sensitized solar cell with Fluorescein Sodium Salt:* (DOI: [10.1109/HONET.2012.6421442](http://dx.doi.org/10.1109/HONET.2012.6421442))

* **16th International Conference on Materials Methods and Technologies-11-15 June 2014 Elenite, Bulgaria.**

**Presentation:** *Comparison of Photovoltaic Parmeters of CdSe QD and Safranin Dye based Solar cell.*

<http://www.scientific-publications.net/en/article/1000218/>

* **NanoNG14, International Conference, 22-24 August 2014, Firat University Turkey.**

**Presentation:** *Photovoltaic and impedance spectroscopic analysis of CdSe Quantum dot solar cell.*

http://www.nanong2014.org/Dokumanlar/program.pdf

* **LIBS-2014, The 8th International conference on Laser Induced Breakdown Spectroscopy, 8th – 12th September 2014 -Beijing China.**

**Presentation:** *Application of Laser Induced Breakdown Spectroscopy in early detection of red palm weevil: (Rhynchophorusferrugineus) infestation in date palm*

* **2nd Annual Meeting of Atomic, Molecular and Optical Physics (AMOP), 31st March - 1st April 2015, Aljouf University, Aljouf, Saudi Arabia**

**Presentation:***Fluorescence spectroscopy of Nanometallic Oxides and their Ligands in Osteosarcoma Cells*

* **SCIX 2015: North American Society for Laser Induced Breakdown Spectroscopy.**

**27 Sept – 2 Oct 2015. Conventional centre Providence, RI, USA.**

**Presentation:** *Study of Plasma and Identification of hazardous elements in the polystyrene using Laser Induced Breakdown Spectroscopy*

* Fifth Saudi International Meeting on Frontiers of physics. 16-18 February 2016, Jazan University Saudi Arabia.

Presentation: Synthesis and characterization of cadmium selenide quantum dots at different parameter using chemical method

* Nanoscience and nanotechnology for new generation (NANONG2016). 20-22 Oct 2016, KEMER-Antalya Turkey.

Presentation: Effect of Pulsed UV Laser on Optical and Nano-Structural Characteristics of Alpha Irradiated PM-355 Polymeric Detectors

* 2nd International conference Advanced and Functional Materials Technologies (AFMAT2016) 20-22 Oct 2016, KEMER-Antalya Turkey.

Presentation: Analysis of chemical modifications and formation of Nano- structure by proton beam irradiation in PM-355 polymer

* + - **International Conference on Laser, Optics and Photonics.** July 25-26, 2018 –Osaka, Japan.

Presentation: Laser Induced Breakdown Spectroscopy for Analysis of Materials

* 4th World Congress on Material Science & Engineering. August 13-15, 2018- London, UK
* Presentation: Evaluation of modifications in laser irradiated Nickle doped Cadmium Oxide nanostructured thin films synthesized by sol get method
* 4TH INTERNATIONAL ORGANIC ELECTRONIC MATERIAL TECHNOLOGY CONFERENCE (OEMT2019), July, 17-19, 2019 Dubai UAE.

Presentation: Synthesis of NiO mediated nano-materials and their evaluation of Photodynamic Therapy of HeLa cell line.

* 5th International Conference on Advances in Functional Materials, George Washington University, Washington, D.C, USA, July 22-14 2019.

Presentation 1: Plasma characterization of polyvinylchloride and methyl methacrylate polymers used in manufacturing of water and food containers using Laser Induced Breakdown Spectroscopy

Presentation 2: **Photovoltaic and Impedance properties of dye sensitized solar cell based on nature dye from beetroot.**

.

**Non-Peer Reviewed Presentations**

1. *Application of lasers in material processing*– (Presented at King Khalid University Abha-Saudi Arabia)- 9- April-2014.
2. *Fabrication of axial flow CO2 laser for material processing*-( Presented at The Pakistan Institute of Physics Annual Conference, 22nd -24th April 1995, Bahawalpur Pakistan).
3. *Lasers and their industrial applications*- (Presented at International Workshop on Laser and Industrial Applications- 16th September 1995, Islamabad Pakistan).
4. *Measurement of oscillator strength using magneto-optical spectroscopy-*(Presented at
5. 19th International Nathiagali Summer College on Physics and Contemporary Needs 23rd June to 4th October 1994 Nathiagali, Pakistan).
6. *Fabrication of Nitrogen laser* -( Presented at The Pakistan Institute of Physics Annual Conference 2-5th April 1993, Lahore Pakistan).

**Conferences Attended (Local):**

# The Pakistan Institute of Physics Annual Conference

# 2-5thApril 1993, Lahore Pakistan.

# The Pakistan Institute of Physics Annual Conference

22nd -24th April 1995, Bahawalpur Pakistan.

* **19th International Nathiagali Summer College on Physics and Contemporary Needs**

23rd June to 4th October 1994 Nathiagali, Pakistan.

* **International Workshop on Laser and Industrial Applications**

16th September 1995, Islamabad Pakistan

* **22nd International Nathiagali Summer College on Physics and Contemporary Needs**

28th July to 9th August 1997 Islamabad Pakistan.

* **7th National Symposium on FROTIERS IN PHYSICS**

19- 21 November 1998, Islamabad Pakistan

* **24th International Nathiagali Summer College on Physics and Contemporary Needs,** 28th June to 10th July 1999, Murree Pakistan
* **Preparatory School On Biophotonics**

7-9thOctober, 2002, Department of Physics QAU Islamabad Pakistan

* **9th National Symposium on FROTIERS IN PHYSICS**
  1. anuary 2003, Lahore Pakistan
* **29th International Nathiagali Summer College on Physics and Contemporary Needs,**

08th July to 10th July 2004, Nathiagali Pakistan

* **31st International Nathiagali Summer College on Physics and Contemporary Needs**

20th July to 26th July 2006, Nathiagali Pakistan

Conferences attended (Abroad):

* Eighth International School On Quantum Electronics, Laser, Physics And Applications

29th September to 4th October 1994, Varna, Bulgaria.

* High Power Lasers – Science And Engineering

NATO Advanced Study Institute, July 16 to 29-1995 Karlovy Vary, Czech Republic

* The Second Asian Pacific Laser Symposium (APLS, 2000)

August 21 to 24, 2000,Shanghai, China.

* 11th International School On Quantum Electronics, Laser, Physics And Applications

18th September to 22nd September 2000, Varna, Bulgaria.

* LIBS-King Fahad University

Damam, Kingdom of Saudi Arabia 2010

* Saudi International Electronics, Communications and Photonics Conference

April 23rd - 26th 2011, (KACST) Riyadh, Saudi Arabia

* 3rd NASLIBS 2011

July 18-20, 2011, Clearwater Beach, FL, USA.

* International Laser Physics Workshop (LPHYS’ 12)

23-27 July 2012, Calgary, Canada

* 7th International Conference On Laser Induced Breakdown Spectroscopy (LIBS 2012)

29 Sept- 4 Oct 2012, Luxor-Egypt

* 9th INTERNATIONAL CONFERENCE, (HONET-2012)

12-14 Dec 2012, Istanbul Turkey

* One day workshop on “The Role of PV in the future Electricity/Energy Market”

20th April 2013, King Abdullah City for Atomic and Renewable Energy (K A CARE), Riyadh Saudi Arabia.

* Saudi International Electronics, Communications and Photonics Conference (IEEE) April 27rd - 30th 2013, (KACST) Riyadh, Saudi Arabia
* 16th International Conference on Materials Methods and Technologies

11-15 June 2014 Elenite, Bulgaria

* NanoNG14, International Conference

22-24 August 2014, Firat University Turkey.

* LIBS-2014, The 8th International conference on Laser Induced Breakdown Spectroscopy

8-12 September 2014 Beijing China

* Workshop on “Environmental Applications of Nanotechnology”

29th March 2015, King Saud University, Riyadh, Saudi Arabia

* 2nd Annual Meeting of Atomic, Molecular and Optical Physics (AMOP)

31st March - 1st April 2015, Al Jouf University, Al Jouf, Saudi Arabia

* The 3rd Saudi International Electronics, Communications and Photonics Conference 2015

27th - 28th April, 2015, Riyadh Saudi Arabia

* SCIX 2015: North American Society for Laser Induced Breakdown Spectroscopy

27 Sept – 2 Oct 2015, Conventional centre Providence, RI, USA

* INTERNATIONAL CONFERENCE ON NANOSCIENCE&NANOTECHNOLOGY FOR NEXT GENERATION 2015 (Nanong2015)

29- 31 October, 2015, Antalya, Sherwood Club Kemer, Turkey

* The Second Saudi International Conference on Scientific Publication abs Exhibition. 11-12 Oct 2015. King Saud University Riyadh
* Fifth Saudi International Meeting on Frontiers of physics

16-18 February 2016, Jazan University Saudi Arabia

* One day workshop on “Optics and Photonics” by AMOP Saudi Physical Society

Feb 21st 2016, Riyadh, Saudi Arabia

* Nanoscience and nanotechnology for new generation (NANONG2016)

20-22 Oct 2016, KEMER-Antalya Turkey

* 2nd International conference Advanced and Functional Materials Technologies (AFMAT2016)

20-22 Oct 2016, KEMER-Antalya, Turkey

* **The 4th Saudi International Nanotechnology Conference (SINC2016)**
  + - 25-27 Oct 2016 KFUPM, Dhahran, Saudi Arabia
  + **Workshop: Scientific research in King Saud University**: Deanship of Scientific Research-King Saud University Riyadh. 7 May 2017.
    - **Workshop: Prototyping, The First Step Towards Commercialization.** 19 December 2017 -King Saud University – Riyadh , Saudi Arabia.
    - **“Scientific Research Forum”** Workshop organized by Deanship of Scientific Research King Saud University KSA- 18-21 Feb 2018**.**
    - **“The Sixth International Meeting on Frontiers of Physics”** JAZAN University, JAZAN, Saudi Arabia- 27 Feb-Ist March 2018.
    - **International Conference on Laser, Optics and Photonics.** July 25-26, 2018 –Osaka, Japan.
    - **4th World Congress on Material Science & Engineering.** August 13-15, 2018- London, UK.
    - **3rd International Organic Electronic Material Technology Conference OEMT 2018- September 20-22, 2018 Igneada-Kirklareli-Turkey.**
    - **Workshop on “MATLAB & Simulink**” College of Computer and Information Sciences, King Saud University Riyadh, KSA.Ist Oct 2018
    - 4TH INTERNATIONAL ORGANIC ELECTRONIC MATERIAL TECHNOLOGY CONFERENCE (OEMT2019), July, 17-19, 2019 Dubai UAE
    - 5th International Conference on Advances in Functional Materials, George Washington University, Washington, D.C, USA, July 22-14 2019

**Keynote Presentations**

* **LIBS Workshop organized by Hillsborough General Trading LLC, PO Box No. 81715, 207, Platinum Business Center, Al Nadha, Dubai, UAE. 23 March 2014. “Basics of Laser Induced Breakdown Spectroscopy”**
* **2nd International conference Advanced and Functional Materials Technologies (AFMAT2016)** 20-22 Oct 2016, KEMER-Antalya Turkey.

**“Quantum-Dot-Sensitized Solar Cells (QDSCs)”**

* **Nanoscience and nanotechnology for new generation (NANONG2016)** 20-22 Oct 2016, KEMER-Antalya Turkey.

**“Laser Induced Breakdown spectroscopy (LIBS) for analysis of materials”**

* + - **4th World Congress on Material Science & Engineering.** August 13-15, 2018- London, UK.

**“**Evaluation of modifications in laser irradiated Nickle doped Cadmium Oxide nanostructured thin films synthesized by sol get method**”**

* + - **3rd International Organic Electronic Material Technology Conference OEMT 2018- September 20-22, 2018 Igneada-Kirklareli-Turkey**

**“Laser induced modification in nano structured thin films synthesized by sol get method”**

* **5th International Conference on Advances in Functional Materials, George Washington University, Washington, D.C, USA, July 22-14 2019**.

**“ Lasers and their applications in materials”**

**Grants Received:**

1. SR- **1,044,749.00-** 1st Oct 2012 to 30 April 2015 -NPST-**Highly Efficient Quantum Dots Sensitized Solar Cell (QDSSCs) Based on Nano- Metal Oxide Semiconductors**. (Two million SR)
2. SR-**60000** - Sept 2014 to Sept 2015-Deanship of Scientific Research at King Saud University –**Laser Applications**-(150000 SR).
3. SR- **800000.00-**1st June 2014 to 30th June 2016 -NPST-**Fabrication and characterization of thermoelectric nanocomposite materials for sustainable energy technologies**. (Two million SR)
4. SR-**150000**.- Sept 2013 to Sept 2014- Deanship of Scientific Research at King Saud University –**Laser Applications**
5. **SR-150000.- Sept 2014 to Sept 2016- Deanship of Scientific Research at King Saud University –Laser Applications**
6. **SR-150000.- Sept 2016 to Sept 2017- Deanship of Scientific Research at King Saud University –Laser Applications**
7. **SR-150000.- April 2018 to April 2019- Deanship of Scientific Research at King Saud University –Laser Applications and characterization of nanomaterials**

**Membership of Professional Societies**:

1. Pakistan Institute of Physics (PIP)
2. Pakistan Physical Society ( PPS)
3. Saudi Physical Society, Atomic, Molecular and Optical Physics (AMOP)
4. Pakistan Vacuum Society.
5. ASLIBS-China
6. Nanoscience and Nanotechnology for Next Generation (NANONG)-Turkey
7. International conference Advanced and Functional Materials Technologies (AFMAT) -Turkey.
8. Advisory Committee Energy Materials and Nanotechnology (EMN) -Ackland, New Zealand
9. Committee member of International Joint Conference on Material Science and Mechanical Engineering (CMSME-2018)-Bangkok Thailand.

**Community Services and Other Professional Activities:**

1. Member of editorial board of “OrganoOpto-Electronics, An International Journal, Natural Sciences Publishing”.
2. Referee for promotion of faculty member of Iman University Riyadh
3. Referee for promotion of faculty member of Tayyaba University Madina
4. Reviewed research projects from many universities.
5. Reviewed projects from NATIONAL SCIENCE CENTRE Poland
6. Reviewer and Committee member of International Joint Conference on Material Science and Mechanical Engineering-Bangkok Thailand.
7. Reviewer and Committee member of International conference Advanced and Functional Materials Technologies (AFMAT) -Turkey.
8. Reviewer and Committee member of Nanoscience and Nanotechnology for Next Generation (NANONG)-Turkey
9. Reviewer of Journal of Jazan University, Saudi Arabia.
10. Reviewer of Journal of Engineering and Applied Sciences, Majma University Saudi Arabia.
11. Reviewer of more than fifteen ISI journals.

**REFEREES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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