

## RESUME

Name: **Dr. Yasir Jamil**  
Father's Name: Muhammad Jamil Sarwat  
Date of Birth: 01-03-1973  
N. I. C. No. 33100-7489202-3  
Domicile: Faisalabad (Punjab)  
Present Position: Professor (Tenured)/ Chairman, Department of Physics,  
Univ. of Agriculture, Faisalabad. (041-9200109)  
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### ACADEMIC RECORD:

Examination passed	Year	Board/ University	Division/ Distinction	Subjects
Matriculation	1989	BISE Faisalabad	I <b>Silver Medal</b>	Science Group
Intermediate	1991	BISE Faisalabad	I	Pre Eng. Group
B. Sc.	1994	Punjab University Lahore	I	Physics, Mathematics
M. Sc.	1997	Univ. of Agriculture Faisalabad	I <b>Gold Medal</b>	Physics
M. Phil.	2001	Univ. of Agriculture Faisalabad	I <b>Top position</b>	Physics
Ph.D.	2009	Quaid I Azam University, Islamabad	Laser spectroscopy	Physics

### Publications

**Published:** 153 (ISI and HEC recognized)  
**Impact Factor:** 300.52  
**Citation:** 3214  
**h-index** 32  
**i-10 index:** 68

**Research Area:** **Laser matter interaction. Various applications of Lasers like agriculture, nanomaterials, energy, environment etc.**

**Research Projects:** **As PI seven projects**  
**As Co-PI:** **(08) projects (one is under international program of PSF)**

### A) COMPLETED

1. Studies on Soil Contaminants Control Using Laser Induced Breakdown Spectroscopy (COMSTECH TWAS JOINT RESEARCH GRANTS PROGRAM)

Amount US \$ 13000/-

2. Laser Induced Breakdown Spectroscopy (Acting PI June 2009 to March 2010)  
Amount Rs.5.875 million (funded by HEC)

- Doppler Free Saturated Absorption Atomic Spectroscopy using Tunable Diode Lasers (As PI 4.3 million Rs. (Funded by the HEC)
- Synthesis of Soft and Hard Ferrites and their Characterization using LIBS (Amount Rs. 1.4 million), Pakistan Science Foundation

## **B) ONGOING PROJECTS**

### **As Principal Investigator**

- Title: Spectrochemical Analysis of pollutants in soil and vegetation using laser induced breakdown spectroscopy.  
Amount: Rs. 7.2 million. Project No. PSF- NSLP (670) Funded by Pakistan Science Foundation (As Principal Investigator)
- Title: Laser assisted synthesis of gold nanoparticles for biophysical applications. Project No. 6409.  
Amount: Rs. 8.5 million. Funded by the Higher Education Commission of Pakistan.
- Title: Design optimization and fabrication of a portable solar umbrella. Amount Rs. 2.2 million. Funded by the Higher Education Commission of Pakistan. (Under Technology Development Fund Award program of the Higher Education Commission of Pakistan).

### **As Co-PI**

- Title: Solution assisted laser ablation synthesis and characterization of metallic nanoparticles. Amount: Rs. 3.2 million. Funding Agency (PI: Dr. Ayesha Younus, Co-PI: **Dr. Yasir Jamil**).
- Title: Experimental and theoretical investigation of ferroelectricity in perovskite based heterostructures or superlattices. Funded by HEC. Amount: Rs. 2.8 million
- Title: Ferroelectric and Antiferroelectric Thin Films for Flat Panel Display and Solar Cell Applications. Funded by HEC. Amount: 0.5 Million Rs.(PI Dr. M. Yaseen; Co-PI **Dr. Yasir Jamil**)
- Title: Utilizing electro-kinetic method to restore masonry materials and structures from moisture and salt induced decay. Funded by HEC. (PI: Dr. Kashif Kamran, Co-PI: **Dr. Yasir Jamil**)
- Title: Synthesis and characterization of metal-oxide nanostructures for solar cell

applications. Submitted by Dr. Hafeez Anwar (Co-PI Dr. **Yasir Jamil** (Amount: 0.5 million)

#### **DISTINCTIONS / SCHOLARSHIPS/AWARDS:**

- **Awarded the Technology Development Fund Award**, by Higher Education Commission of Pakistan (**June 2017**).
- **Award by Global Clean Innovative Program.** (2017). Organized by United Nation Industrial Development Organization.
- **Research Productivity Award (PCST)**
- **Productive Scientist of Pakistan (PCST 2007- onwards).**
- **Scholarship** under the “International Research Support Initiative Program of the HEC based on high score in **GRE International**.
- **S & T Merit Scholarship** for Ph.D. in Physics on competitive grounds by Higher Education Commission (HEC) Pakistan
- **Orient Dr. Abdul Qadeer Khan Science Award GOLD MEDAL and Scholarship** (Awarded by the Orient International).
- **SILVER MEDAL and Quaid-i-Azam Merit Scholarship** from the Board of Intermediate and Secondary Education Faisalabad.
- **Merit Scholarship** on the basis Intermediate examination.
- **Commendation certificate** from the Director General Pakistan Aeronautical Complex Kamra for outstanding performance.
- Selected by the **European Scientific Institute** for participation in the **Joint Universities Accelerators School** (for **CERN** and France).
- **Better Incentives** from University of Agriculture, Faisalabad (2007-08), (2008-09) and (2009-10)
- HEC recognized PhD supervisor

#### **PROFESSIONAL EXPERIENCE:**

<b>Job Position</b>	<b>Duration</b>	<b>Job description</b>
Lecturer in Physics at Government T. I. College, Chenab Nagar.	20-03-1999 to 11-03-2002	Teaching Post graduate classes in Physics and supervision of research students.
Lecturer in Physics at University of Agriculture, Faisalabad.	12-03-2002 to 27-02-2009	Teaching and Research
Assistant Professor in Physics, University of Agriculture, Faisalabad.	28-02-2009 to 30-12-2013	Teaching and Research

Associate Professor in Physics, University of Agriculture Faisalabad	31-12-2013 10-10-2024	Teaching and Research
Professor of Physics Chairman, Department of Physics, University of Agriculture Faisalabad	11-10-2024 to date 04-07-2014 to 07-09-2017, and 16-11-2020 to date	Teaching and Research Administration (along with the teaching and research)
Director Academics, University of Agriculture Faisalabad	12-10-2018 to 11-10-2019	Academic matters of university and smooth functioning of the Teaching Resource Center of UAF etc. Teaching and research

#### PATENTS:

Following are the two patents that are submitted

##### Patent 1

1) **Title:** Portable solar Umbrella  
Dr. **Yasir Jamil** and Mr. Shamooun Al Islam  
Patent Application No. 49/2016 (dated: 25/01/2016)

##### Patent 2

1) **Title:** High Frequency Electromagnet Driver for Hyperthermia Application  
Shamooun Al Islam, Dr. **Yasir Jamil** and Zunaira Javaid.  
Patent Application No. 67/2017 (dated: 31-01-2017)

#### RESEARCH PUBLICATIONS:

Sr.#	Authors	Journal name, year, vol. & page number	Year	Journal Impact Factor(if any)
•	Zahid Ali, <b>Yasir Jamil</b> , Hafeez Anwar and Raja Adil Sarfraz Classification of e-waste using machine learning-assisted laser-induced breakdown spectroscopy	Waste Management & Research	2024	3.7
•	<u>Sajal Munawar</u> , <u>Muhammad Faheem</u> , <u>Muhammad Bilal</u> , <u>Asad Akram</u> , <u>Hafeez Anwar</u> & <b><u>Yasir Jamil</u></b> Elemental Analysis and Classification of Nicotine Pouches Using Machine Learning Assisted Laser Induced Breakdown Spectroscopy	Arabian journal of Science	2024	2.87
•	<u>Muhammad Haider Zaman</u> , <u>Fahad Rehman</u> , <u>Muhammad Shoaib</u>	Arabian journal of Science	2024	2.87

	<u>Tahir, Muhammad Faheem and Yasir Jamil</u> . A study on the Effect of preprocessing and normalization on classification of plant samples in Machine Learning Assisted Laser induced breakdown spectroscopy			
•	Shamoon Al Islam, Liang Hao, Zunaira Javaid, Wei Xiong, Yan Li, <b>Yasir Jamil</b> , Qiaoyu Chen and Guangchao Han. Surface Roughness of Interior Fine Flow Channels in Selective Laser Melted Ti-6Al-4V Alloy Components.	Micromachines 15, 348	2024	2.6
•	Amna Ayub, Muhammad Ali Hashmi b, Haq Nawaz Bhatti, <b>Yasir Jamil</b> , Javed Iqbal. Effect of binding pockets on the kinetics and thermodynamics of Diels-alder reaction in cucurbit-Uriil famil	Journal of Molecular Structure 1296 (2024)136833	2024	3.841
•	Rashida Perveen, <b>Yasir Jamil</b> , Arwa Abdulkreem AL-Huqail, Ibtisam Mohammed Alsudays, Suliman Mohammed Suliman Alghanem, Qasim Ali, Farah Saeed, Muhammad Azeem, Muhammad Rizwan, Sami Asir Al-Robai h. Effects of pulsed Nd:YAG laser kernel irradiation on maize (Zea mays L.): Insights into germination, gas exchange, photosynthetic pigments, and morphological modifications	Journal of Photochemistry & Photobiology, B: Biology 253 (2024) 112876	2024	6.814
•	Gulzar Hussain a , Fahad Rehman b , Ishfaq Ahmed a , <b>Yasir Jamil b,*</b> , Hafeez Anwar a,* .Synthesis, characterization and machine learning assisted optical emission studies of dysprosium doped bismuth ferrites	Materials Research Bulletin	2023	5.6
•	Synthesis and application of optimized ZnO nanoparticles for improving yield and Zn content of	Journal of Plant Nutrition	2023	2.277

	rice ( <i>Oryza sativa</i> L.) grain Muhammad Akmal a , Ayesha Younusa , Abdul Wakeel b , <b>Yasir Jamil a</b> , and Muhammad Abid Rashid c			
•	Magnetic Hyperthermia and Antibacterial Response of CuCo <sub>2</sub> O <sub>4</sub> Nanoparticles Synthesized through Laser Ablation of Bulk Alloy Imran Ali 1 , <b>Yasir Jamil</b> 2 , Saeed Ahmed Khan 3 , Yunxiang Pan 1 , Aqeel Ahmed Shah 4 , Ali Dad Chandio 4 , Sadaf Jamal Gilani 5 , May Nasser Bin Jumah 6,7,8 , Yusra Fazal 1 , Jun Chen 9,* and Zhonghua Shen 1,*	Magnetochemistry	2023	3.336
•	Photothermal Hyperthermia Study of Ag/Ni and Ag/Fe Plasmonic Particles Synthesized Using Dual-Pulsed Laser Imran Ali 1 , Jun Chen 2 , Saeed Ahmed Khan 3 , <b>Yasir Jamil</b> 4 , Aqeel Ahmed Shah 5 , Abdul Karim Shah 6 , Sadaf Jamal Gilani 7 , May Nasser Bin Jumah 8,9,10, Yusra Fazal 1 , Yunxiang Pan 1,* and Zhonghua Shen 1,*	Magnetochemistry	2023	3.336
•	Hybrid Au/Co nanoparticles: Laser-assisted synthesis and applications in magnetic hyperthermia Imran Ali a , Yunxiang Pan a , <b>Yasir Jamil b</b> , Jun Chen c , Aqeel Ahmed Shah d , Muhammad Imran e , Umair Alvi f , Nadeem Nasir f,* , Zhonghua Shen a	Physica B: Condensed Matter	2023	2.988
•	Comparison of copper-based Cu-Ni and Cu-Fe nanoparticles synthesized via laser ablation for magnetic hyperthermia and antibacterial applications Imran Ali a,1 , Yunxiang Pan a,1 , <b>Yasir Jamil b,**</b> , Aqeel Ahmed Shah e , Muhammad Amir d , Shamoon Al Islam f , Yusra Fazal a , Jun	Physica B: Condensed Matter	2023	2.988

	Chen c,* , Zhonghua Shen a,**			
•	Hafiz Talha Hasnain Rana a , Naveed Akhtar Shad b , S. Hussain c , Asim Jilani d , Muhammad Umair a , Muhammad Munir Sajid e , Muhammad Faheem c , Attaullah Shah f , <b>Yasir Jamil a</b> , Munib Ahmed Shafique g , Yasir Javed a,. Dysprosium doped calcium tungstate as an efficient electrode material for the electrochemical energy storage devices	Ceramics International	2023	5.532
•	F. Khan, M. Zahid, H. N. Bhatti & <b>Y. Jamil</b> . Degradation of persistent organic pollutant using Ag-doped ZnO-ZnS–polyaniline composite as photocatalyst.	International Journal of Environmental Science and Technology	2022	3.519
•	Sidra Rehman Naveed Akhtar Shad Muhammad Munir Sajid Khuram Ali Yasir Javed <b>Yasir Jamil</b> Muhammad Sajjad Ahmed Nawaz Surender Kumar Sharma. Tuning Structural and Optical Properties of Copper Oxide Nanomaterials by Thermal Heating and Its Effect on Photocatalytic Degradation of Congo Red Dye.	Iranian Journal of Chemistry and Chemical Engineering (IJCCE) Volume 41, Pages 1549-1560	2022	1.903
•	Imran Ali, Yunxiang Pan, <b>Yasir Jamil</b> , Aqeel Ahmed Shah, Muhammad Amir Shamoon Al Islam, Yusra Fazal, Jun Chenc Zhonghua Shen. Comparison of copper-based Cu-Ni and Cu-Fe nanoparticles synthesized via laser ablation for magnetic hyperthermia and antibacterial applications.	Physica B Condensed Matter	2022	2.436
•	Gulzar Hussain , Fahad Rehman , Ishfaq Ahmed1 , Yasir Jamil* , Hafeez Anwar. Synthesis, Characterization and Machine Learning Assisted Optical Emission Studies of Dysprosium doped Bismuth Ferrites	<a href="#">Materials Research Bulletin</a>	2022	4.641

•	Muhammad Akmal, ,Ayesha Younus,Abdul Wakeel, <b>Yasir Jamil</b> &Muhammad Abid Rashid. Synthesis and application of optimized ZnO nanoparticles for improving yield and Zn content of rice (Oryza sativa L.) grain	JOURNAL OF PLANT NUTRITION	2022	2.277
•	Humaima Saeed· <b>Yasir Jamil</b> , Ayesha Younas· Muhammad Shahid. Quantitative Measurements of Ablative Laser Propulsion Parameters of Metal Foils Using Pulsed Nd:YAG Laser	Arabian Journal for Science and Engineering	2022	2.334
•	Nasba Nazeer Ayesha Younus <b>Yasir Jamil</b> · Raziya Nadeem. Plasma confinement using semispherical cavities for enhancement of ablative laser propulsion parameters	Applied Physics B	2022	2.07
•	Noor Tahir & Muhammad Zahid & Ijaz Ahmad Bhatti1 & <b>Yasir Jamil</b> . Fabrication of visible light active Mn-doped Bi <sub>2</sub> WO <sub>6</sub> -GO/MoS <sub>2</sub> c heterostructure for enhanced photocatalytic degradation of methylene blue	Environmental Science and Pollution Research	2022	5.053
•	Saifullah Jamali, Nek Muhammad Shaikh , Muhammad Aslam Khoso a , <b>Yasir Jamil</b> , Waseem Ahmed Bhutto , Abdul Majid Soomro , Riaz Hussain Mari. Elemental analysis of talcum powder using spectroscopic techniques	International Journal for Light and Electron Optics	2022	2.443
•	Gulzar Ahmad , Yasir Javed,* , <b>Yasir Jamil</b> , and Kashif Jilani. Efficient label-free detection of chloramphenicol by iron-doped cadmium sulfide nanomaterials	Journal of Materials Science	2022	4.128
•	Yusra Chauhdary , Muhammad Asif Hanif , Umer Rashid,* , Ijaz	Water (Switzerland)	2022	3.166



	Ahmad Bhatti 1 , Hafeez Anwar, <b>Yasir Jamil</b> , Fahad A. Alharthi 4 and Elham Ahmed Kazerooni . Effective Removal of Reactive and Direct Dyes from Colored Wastewater Using Low-Cost Novel Bentonite Nanocomposites.			
•	Rashida Perveen1 · <b>Yasir Jamil</b> · Yasir Javed · Muhammad Shahid. A Comprehensive Study on Pulsed Nd:YAG Laser Irradiation of Maize Kernels: Measurement of Biophoton Emissions, Metabolite Levels and Thermodynamical Attributes During Germination	Arabian Journal for Science and Engineering	2022	2.334
•	Perveen, R., X. Wang, <b>Y. Jamil</b> , Q. Ali, S. Ali, M. Q. Zakaria, M. Afzaal, R. A. Kasana, M. H. Saleem and S. Fiaz. 2021. Quantitative determination of the effects of he–ne laser irradiation on seed thermodynamics, germination attributes and metabolites of safflower (Carthamus tinctorius l.) in relation with the activities of germination enzymes.	Agronomy, 11(7).	2021	3.473
•	Perveen, S., R. Nadeem, S. Ali and <b>Y. Jamil</b> . 2021. Biochar caged zirconium ferrite nanocomposites for the adsorptive removal of Reactive Blue 19 dye in a batch and column reactors and conditions optimizaton.	Zeitschrift fur Physikalische Chemie, 235(12): 1721–1745.	2021	2.408
•	Rabani, I., S. H. Lee, H. S. Kim, J. Yoo, Y. R. Park, T. Maqbool, C. Bathula, <b>Y. Jamil</b> , S. Hussain and Y. S. Seo. 2021. Suppressed photocatalytic activity of ZnO based Core@Shell and RCore@Shell nanostructure incorporated in the cellulose nanofiber.	Chemosphere, 269: 129311.	2021	7.086
•	Saeed, H., <b>Y. Jamil</b> , A. Younas and M. Shahid. 2021. Quantitative Measurements of Ablative Laser Propulsion Parameters of Metal	Arabian Journal for Science and Engineering, (0123456789).	2021	2.334

	Foils Using Pulsed Nd:YAG Laser.			
•	Sajjad, M., S. Aslam, K. Ali, <b>Y. Jamil</b> , H. M. Khan, M. R. Ahmad, M. Z. Rashid and M. Alzaid. 2021. Enhanced structural and optical properties of Mn-doped BiFeO <sub>3</sub> nanoparticles at different substitutions.	Journal of Optoelectronics and Advanced Materials, 23(3–4): 199–206.	2021	0.587
•	Sultan, M. Z., <b>Y. Jamil</b> , Y. Javed and R. A. Sarfraz. 2021. Synthesis, Characterization, and Study of Thermal Response of Cu-Doped Fe <sub>3</sub> O <sub>4</sub> Nanoparticles.	Journal of Superconductivity and Novel Magnetism, 34(12): 3209–3221.	2021	1.506
•	Tahir, N., M. Zahid, I. A. Bhatti and <b>Y. Jamil</b> . 2022. Fabrication of visible light active Mn-doped Bi <sub>2</sub> WO <sub>6</sub> -GO/MoS <sub>2</sub> heterostructure for enhanced photocatalytic degradation of methylene blue.	Environmental Science and Pollution Research, 29(5): 6552–6567.	2021	4.223
•	Shamoon Al Islam, <b>Yasir Jamil</b> , Zunaira Javaid, Liang Hao, Nasir Amin, Yasir Javed, Mubashar Rehman, Hafeez Anwar. A Study on Thermal Response of Nanoparticles in External Magnetic Field.	Journal of Superconductivity and Novel Magnetism (2021) 34:3223–3228	2021	1.506
•	Ammara Iftikhar, <b>Yasir Jamil</b> , Nasba Nazeer, Muhammad Shoaib Tahir, Nasir Amin. Optical Emission Spectroscopy of Nickel-Substituted Cobalt–Zinc Ferrite.	Journal of Superconductivity and Novel Magnetism (2021) 34:1849–1854	2021	1.506
•	Rashida Perveen, <b>Yasir Jamil</b> , Yasir Javed, Muhammad Shahid. A Comprehensive Study on Pulsed Nd:YAG Laser Irradiation of Maize Kernels: Measurement of Biophoton Emissions, Metabolite Levels and Thermodynamical Attributes During Germination.	Arabian Journal for Science and Engineering (2021a)	2021	2.334
•	Akhtar, K., Y. Javed, <b>Y. Jamil</b> and F. Muhammad. 2020. Functionalized cobalt ferrite cubes: toxicity, interactions and	Applied Nanoscience (Switzerland), 10(9): 3659–3674.	2020	3.674

	mineralization into ferritin proteins.			
•	Alzaid, M., M. Sajjad, K. Ali, <b>Y. Jamil</b> , L. Akbar, A. Sattar, A. Rizwan, A. Suhale, H. Ahmad, C. M. Nouman, M. U. Ghani and A. Umair. 2020. Enhanced structural and optical properties of copper oxide for solar cell applications.	Journal of Ovonic Research, 16(6): 405–412.	2020	1.165
•	Amjed, N., I. A. Bhatti, K. M. Zia, J. Iqbal and <b>Y. Jamil</b> . 2020. Synthesis and characterization of stable and biological active chitin-based polyurethane elastomers.	International Journal of Biological Macromolecules, 154: 1149–1157.	2020	6.953
•	Ashraf, R., H. N. Bhatti, M. A. Iqbal and <b>Y. Jamil</b> . 2020. Synthesis of aryl linked binuclear silver N-heterocyclic carbene complexes, DNA interaction study and biological potentials.	Inorganic Chemistry Communications, 119: 108077.	2020	2.495
•	Atif, M., H. N. Bhatti, M. A. Iqbal and <b>Y. Jamil</b> . 2020. In-situ approach for the synthesis of bromide-bridged mercury (II) N-heterocyclic carbene complexes.	Journal of Coordination Chemistry, 73(8): 1377–1388.	2020	1.751
•	Haider, S. Z., H. Anwar, <b>Y. Jamil</b> and M. Shahid. 2020. A comparative study of interface engineering with different hole transport materials for high-performance perovskite solar cells.	Journal of Physics and Chemistry of Solids, 136(August 2019): 109147.	2020	3.995
•	Iftikhar, A., <b>Y. Jamil</b> , N. Nazeer, M. S. Tahir and N. Amin. 2021. Optical Emission Spectroscopy of Nickel-Substituted Cobalt–Zinc Ferrite.	Journal of Superconductivity and Novel Magnetism, 34(7): 1849–1854.	2020	1.506
•	Javaid, R., H. Anwar, <b>Y. Jamil</b> , B. Abbas, M. Iqbal, S. Ahmed, A. Islam, F. Batool, M. Khalid, U. Elahi, S. Riaz and K. Hayat. 2020. Study of the morphological transformation of copper iodide nanostructures prepared by sugar beet mediated route.	Journal of Ovonic Research, 16(5): 253–259.	2020	1.165
•	Naz, S., M. Nadeem, M. Zain-Ul-Abideen, S. K. Buttar, S.	IOP Conference Series: Materials	2020	

	Shukrullah, M. Y. Naz and <b>Y. Jamil</b> . 2020. Experimental investigation of impact of dust accumulation on the performance of photovoltaic solar module.	Science and Engineering, 863(1).		
•	Sadiq, S. A., Z. Waseem, S. Hanif, S. Riaz, K. Hayat, A. I. F. Batool, <b>Y. Jamil</b> , M. Y. Naz and H. Anwar. 2020. Investigation of the role of pH on structural and morphological properties of titanium dioxide nanoparticles.	IOP Conference Series: Materials Science and Engineering, 863(1).	2020	
•	Zakaria, M. Q., <b>Y. Jamil</b> , A. Younus and M. Shahid. 2020. Nanoparticles enhanced laser ablation propulsion (NE-LAP) of Cu: A response surface regression approach.	Infrared Physics and Technology, 111(August): 103486.	2020	2.638
•	Sadiq, SA (Sadiq, S. A.); Waseem, Z (Waseem, Z.); Hanif, S (Hanif, S.); Riaz, S (Riaz, S.); Hayat, K (Hayat, K.); Batool, AIF (Batool, A. I. F.); Jamil, Y (Jamil, Y.); Naz, MY (Naz, M. Y.); Anwar, H (Anwar, H.). Investigation of the role of pH on structural and morphological properties of titanium dioxide nanoparticles	SYMPOSIUM ON ENERGY SYSTEMS 2019 (SES 2019)	2020	
•	Naz, S (Naz, S.); Nadeem, M (Nadeem, M.); Zain-ul-Abideen, M (Zain-ul-Abideen, M.); Buttar, SK (Buttar, S. K.); Shukrullah, S (Shukrullah, S.); Naz, MY (Naz, M. Y.); Jamil, Y (Jamil, Y.). Experimental investigation of impact of dust accumulation on the performance of photovoltaic solar module	SYMPOSIUM ON ENERGY SYSTEMS 2019 (SES 2019)	2020	
•	Kanwal Akhtar, Naveed Akhtar Shad, M. Munir Sajid, Yasir Javed, Muhammad Asif, Khuram Ali, Hafeez Anwar, <b>Yasir Jamil</b> . K. Sharma. Photovoltaic-Based Nanomaterials: Synthesis and Characterization	Solar Cells 2020	2020	7.267

•	Anjum, F., A. Ghaffar, <b>Y. Jamil</b> and M. I. Majeed. 2019. Effect of sintering temperature on mechanical and thermophysical properties of biowaste-added fired clay bricks.	Journal of Material Cycles and Waste Management, 21(3): 503–524.	2019	2.863
•	Mansoor, N., A. Younus, <b>Y. Jamil</b> and M. Shahid. 2019. Impact of nanosized and bulk zno on germination and early growth response of triticum aestivum.	Pakistan Journal of Agricultural Sciences, 56(4): 879–884.	2019	0.748
•	Rahmat, M., A. Rehman, S. Rahmat, H. N. Bhatti, M. Iqbal, W. S. Khan, <b>Y. Jamil</b> , S. Z. Bajwa, Y. Sarwar and S. Rasul. 2019. Laser ablation assisted preparation of MnO <sub>2</sub> nanocolloids from waste battery cell powder: Evaluation of physico-chemical, electrical and biological properties.	Journal of Molecular Structure, 1191: 284–290.	2019	3.196
•	Ramzan, M., M. I. Arshad, N. Amin, K. Mahmood, A. Ali, M. Sharif, S. Ikram, <b>Y. Jamil</b> and M. Ajaz-Un-nabi. 2019. Effect Of La And Ce Co-Doping on Structural, Spectral and electrical properties Of Ba-Ni M Type Hexaferrites.	Digest Journal of Nanomaterials and Biostructures, 14(3): 849–854.	2019	0.963
•	Ramzan, M., M. I. Arshad, M. Sharif, K. Mahmood, A. Ali, N. Amin, N. Lu, S. Arshad, <b>Y. Jamil</b> and M. Ajaz-un-Nabi. 2019. Investigation of Electrical and Magnetic Properties of La <sup>3+</sup> Substituted M-Type Ba–Ni Nano-Ferrites.	Journal of Superconductivity and Novel Magnetism, 32(11): 3517–3524.	2019	1.506
•	Mansoor, N (Mansoor, N.); Younus, A (Younus, A.); Jamil, Y (Jamil, Y.); Shahid, M. 2019. Assessment of nutritional quality, yield and antioxidant activity of triticum aestivum treated with zinc oxide nanoparticles.	Digest Journal of Nanomaterials and Biostructures.	2019	0.963
•	Tahira Ahmed, <b>Yasir Jamil</b> . Laser Controlled Cavitation Deformation in Red Blood Cells.	open <a href="#">Journal of Science and Technology</a> (2019) 2:29–31.	2019	

•	<a href="#">Aqsa Ikram</a> , <a href="#">Yasir Jamil</a> , <a href="#">Tahira Ahmad</a> , <a href="#">Hira Ikram</a> , <a href="#">Amna Ameen</a> , <a href="#">Soban Qayyum</a> . Controllable Fabrication and Characterization of Gold Nanoparticles: Enhanced Therapeutic Approaches in Cancer.	<a href="#">Open Journal of Science and Technology</a> (2019) 2:26–28.	2019	
•	Anwar, H., B. C. Rana, Y. Javed, G. Mustafa, M. R. Ahmad, <b>Y. Jamil</b> and H. Akhtar. 2018. Effect of ZnO on Photocatalytic Degradation of Rh B and Its Inhibition Activity for C. coli Bacteria.	Russian Journal of Applied Chemistry, 91(1): 143–149.	2018	0.850
•	Dastgeer, G., M. F. Khan, G. Nazir, A. M. Afzal, S. Aftab, B. A. Naqvi, J. Cha, K. A. Min, <b>Y. Jamil</b> , J. Jung, S. Hong and J. Eom. 2018. Temperature-Dependent and Gate-Tunable Rectification in a Black Phosphorus/WS <sub>2</sub> van der Waals Heterojunction Diode.	ACS Applied Materials and Interfaces, 10(15): 13150–13157.	2018	9.229
•	Hussain, M., Misbah-ul-Islam, T. Meydan, J. A. Cuenca, Y. Melikhov, G. Mustafa, G. Murtaza and <b>Y. Jamil</b> . 2018. Microwave absorption properties of CoGd substituted ZnFe <sub>2</sub> O <sub>4</sub> ferrites synthesized by co-precipitation technique.	Ceramics International, 44(6): 5909–5914.	2018	4.527
•	Naz, Muhammad & Sulaiman, Shahrin & Khan, Yasin & Ghaffar, Abdul & <b>Jamil, Yasir</b> & Ahmad, Irfan. (2018). Study of Particle dynamics in a swirling fluidized bed by using a mesh-type air distributor.	Journal of Porous Media.	2018	1.663
•	Khalid, S., N. Afzal, J. A. Khan, Z. Hussain, A. S. Qureshi, H. Anwar and <b>Y. Jamil</b> . 2018. Antioxidant resveratrol protects against copper oxide nanoparticle toxicity in vivo.	Naunyn-Schmiedeberg's Archives of Pharmacology, 391(10): 1053–1062.	2018	3.0
•	Anwar, H., <b>Y. Jamil</b> , G. Mustafa, M. U. Islam, A. Shakoor, M. I.	Journal of Ovonic Research, 13(5):	2017	1.165

	Arshad, H. Akhtar and M. R. S. Aleem. 2017. Effect of Co-substitution of (Bi,Mn) ions on structural, magnetic and dielectric properties of (DyFeO <sub>3</sub> ) dysprosium orthoferrite.	241–248.		
•	Asghar, T., M. Iqbal, <b>Y. Jamil</b> , Zia-ul-Haq, J. Nisar and M. Shahid. 2017. Comparison of He[sbnd]Ne laser and sinusoidal non-uniform magnetic field seed pre-sowing treatment effect on Glycine max (Var 90-I) germination, growth and yield.	Journal of Photochemistry and Photobiology B: Biology, 166: 212–219.	2017	6.252
•	Ibrahim, K. A., M. Y. Naz, S. A. Sulaiman, A. Ghaffar, <b>Y. Jamil</b> and N. M. Abdel-Salam. 2017. Effect of urea and borate plasticizers on rheological response of corn starch.	Polymers, 9(9): 1–11.	2017	4.207
•	Javed, Y., K. Akhtar, H. Anwar and <b>Y. Jamil</b> . 2017. MRI based on iron oxide nanoparticles contrast agents: effect of oxidation state and architecture.	Journal of Nanoparticle Research, 19(11).	2017	2.253
•	Urva, H. Shafique, <b>Y. Jamil</b> , Z. ul Haq, T. Mujahid, A. U. Khan, M. Iqbal and M. Abbas. 2017. Low power continuous wave-laser seed irradiation effect on Moringa oleifera germination, seedling growth and biochemical attributes.	Journal of Photochemistry and Photobiology B: Biology, 170: 314–323	2017	6.252
•	Mahmood, T., M. Y. Naz, S. A. Sulaiman, <b>Y. Jamil</b> , S. Shukrullah, M. Zahid and M. Inayat. 2017. CFD Modeling and Experimental Validation of a Solar Still.	MATEC Web of Conferences, 131.	2017	
•	Naz, M. Y., S. A. Sulaiman, T. Mahmood, M. I. Hussain, A. Ghaffar, <b>Y. Jamil</b> and M. Inayat. 2017. Heating Performance Study on a Passive Solar Heater.	MATEC Web of Conferences, 131.	2017	
•	Ameen Ramiza, F., S. K. Ajmal, M. B. Khan, A. Nasim, <b>Y. Jamil</b> , K. Kashif and S. Amira. 2016. Effect of UV radiations to control	IOP Conference Series: Materials Science and Engineering,	2016	

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•	Asghar, T., <b>Y. Jamil</b> , M. Iqbal, Zia-ul-Haq and M. Abbas. 2016. Laser light and magnetic field stimulation effect on biochemical, enzymes activities and chlorophyll contents in soybean seeds and seedlings during early growth stages.	Journal of Photochemistry and Photobiology B: Biology, 165: 283–290.	2016	6.252
•	Jilani, A., J. Iqbal, S. Rafique, M. S. Abdel-wahab, <b>Y. Jamil</b> and A. A. Al-Ghamdi. 2016. Morphological, optical and X-ray photoelectron chemical state shift investigations of ZnO thin films.	Optik, 127(16): 6358–6365.	2016	2.443
•	Mustafa, G., M. U. Islam, W. Zhang, M. I. Arshad, <b>Y. Jamil</b> , H. Anwar, G. Murtaza, M. Hussain and M. Ahmad. 2016. Investigation of the Role of Ce <sup>3+</sup> Substituted Ions on Dielectric Properties of Co-Cr Ferrites Prepared by Co-precipitation Method.	Journal of Electronic Materials, 45(11): 5830–5838	2016	1.938
•	Ahmad, M. R., <b>Y. Jamil</b> , H. Saeed and T. Hussain. 2015. A new perspective of ablative pulsed laser propulsion: Study on different morphologies of nano-structured ZnO.	Laser Physics Letters, 12(5): 56101.	2015	2.016
•	Ahmad, M. R., <b>Y. Jamil</b> , M. Q. Zakaria, T. Hussain and R. Ahmad. 2015. Plasma confinement to enhance the momentum coupling coefficient in ablative laser micro-propulsion: A novel approach.	Laser Physics Letters, 12(7): 76101.	2015	2.016
•	Mustafa, G., M. U. Islam, W. Zhang, A. W. Anwar, <b>Y. Jamil</b> , G. Murtaza, I. Ali, M. Hussain, A. Ali and M. Ahmad. 2015. Influence of the divalent and trivalent ions substitution on the structural and magnetic properties of Mg <sub>0.5</sub> -	Journal of Magnetism and Magnetic Materials, 387: 147–154.	2015	2.993



	xCdxCo <sub>0.5</sub> Cr <sub>0.04</sub> TbyFe <sub>1.96-y</sub> O <sub>4</sub> ferrites prepared by sol-gel method.			
•	Mustafa, G., M. U. Islam, W. Zhang, <b>Y. Jamil</b> , A. W. Anwar, M. Hussain and M. Ahmad. 2015. Investigation of structural and magnetic properties of Ce <sup>3+</sup> -substituted nanosized Co-Cr ferrites for a variety of applications.	Journal of Alloys and Compounds, 618: 428–436.	2015	5.316
•	Mustafa, G., M. U. Islam, W. Zhang, <b>Y. Jamil</b> , M. Asif Iqbal, M. Hussain and M. Ahmad. 2015. Temperature dependent structural and magnetic properties of Cerium substituted Co-Cr ferrite prepared by auto-combustion method.	Journal of Magnetism and Magnetic Materials, 378: 409–416.	2015	2.993
•	Raza Ahmad, M., <b>Y. Jamil</b> , A. Tabasuum and T. Hussain. 2015. Refinement in the structural and magnetic properties of Co <sub>0.5</sub> Ni <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> and its application as laser micro-propellant using ablation confinement.	Journal of Magnetism and Magnetic Materials, 384: 302–307.	2015	2.993
•	Mubeen Aslam, <b>Yasir Jamil</b> and Syed Zafar Ilyas. Measurement of temperature and electron number density of laser induced copper plasma.	<i>Pakistan Journal of Science and Technology</i> , 2015. 1(1): 90-94.	2015	
•	Ahmad, M. R., <b>Y. Jamil</b> , F. Jabeen and T. Hussain. 2014. A novel laser assisted structure refinement of Co <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> .	Laser Physics Letters, 11(4).	2014	2.016
•	Hafiz Akif Shahzad, <b>Y. Jamil</b> , M. Iqbal, M. Musadiq and M. Asif Naeem. 2014. Effect of Laser Irradiation on Micro-Structural Properties of Zinc Ferrite.	Asian Journal of Chemistry; Vol. 26, No. 7 (2014), 1887-1890.	2014	0.535
•	Irfan, S., M. Ajaz-Un-Nabi, <b>Y. Jamil</b> and N. Amin. 2014. Synthesis of Mn <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite powder by co-precipitation method.	IOP Conference Series: Materials Science and Engineering, 60(1).	2014	1.609
•	Khan, S. A., M. Ibrahim, <b>Y. Jamil</b> ,	Polish Journal of	2014	1.699

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•	Farooq, H., M. Raza Ahmad, <b>Y. Jamil</b> , A. Hafeez and M. Anwar. 2013. Structural, dielectric and magnetic properties of superparamagnetic zinc ferrite nanoparticles synthesized through coprecipitation technique.	Kovove Materialy, 51(5): 305–310.	2013	1.068
•	<b>Jamil, Y.</b> , R. Perveen, M. Ashraf, Q. Ali, M. Iqbal and M. R. Ahmad. 2013. He-Ne laser-induced changes in germination, thermodynamic parameters, internal energy, enzyme activities and physiological attributes of wheat during germination and early growth.	Laser Physics Letters, 10(4).	2013	2.016
•	<b>Jamil, Y.</b> , H. Saeed, M. Raza Ahmad, S. Ahmad Khan, H. Farooq, M. Shahid, K. M. Zia and N. Amin. 2013. Measurement of ablative laser propulsion parameters for aluminum, Co-Ni ferrite and polyurethane polymer.	Applied Physics A: Materials Science and Processing, 110(1): 207–210.	2013	2.584
•	Khan, S. A., M. Ibrahim, <b>Y. Jamil</b> , M. S. Islam and F. Abbas. 2013. Spectrochemical analysis of soil around leather tanning industry using laser induced breakdown spectroscopy.	Journal of Chemistry, 2013.	2013	3.591
•	Nasim, H. and <b>Y. Jamil</b> . 2013. Recent advancements in spectroscopy using tunable diode lasers.	Laser Physics Letters, 10(4).	2013	2.016
•	Muhammad Musadiq, Nasir Amin, <b>Yasir Jamil</b> , Munawar Iqbal, M. Asif Naeem and Hafiz Akif Shahzad. Measurement of electron number density and electron	<i>International Journal of Engineering and Technology</i> . 2013. 2(1): 32-43.	2013	1.271

	temperature of laser-induced silver plasma.			
•	Iqbal, M., Z. U. Haq, <b>Y. Jamil</b> and M. R. Ahmad. 2012. Effect of presowing magnetic treatment on properties of pea.	International Agrophysics, 26(1): 25–31.	2012	2.317
•	Iqbal, Munawar, D. Muhammad, Zia-ul-Haq, <b>Y. Jamil</b> and M. Raza Ahmad. 2012. Effect of pre-sowing magnetic field treatment to garden pea ( <i>Pisum sativum</i> L.) seed on germination and seedling growth.	Pakistan Journal of Botany, 44(6): 1851–1856.	2012	0.972
•	<b>Jamil, Y.</b> , Z. Ul Haq, M. Iqbal, T. Perveen and N. Amin. 2012. Enhancement in growth and yield of mushroom using magnetic field treatment.	International Agrophysics, 26(4): 375–380.	2012	2.317
•	ul Haq, Z., <b>Y. Jamil</b> , S. Irum, M. A. Randhawa, M. Iqbal and N. Amin. 2012. Enhancement in germination, seedling growth and yield of radish ( <i>Raphanus sativus</i> ) using seed pre-sowing magnetic field treatment.	Polish Journal of Environmental Studies, 21(2): 369–374.	2012	1.699
•	Naz A, <b>Jamil Y</b> , ul Haq Z, Iqbal M, Ahmad MR, Ashraf MI, Ahmad R. Enhancement in the germination, growth and yield of okra ( <i>Abelmoschus esculentus</i> ) using pre-sowing magnetic treatment of seeds.	Indian J Biochem Biophys.	2012	1.918
•	Taqmeem Hussain, Muhammad Shahbaz, Inam ul Haq, Hashim Farooq, Nasir Amin and <b>Yasir Jamil</b> . Dosimetric characterization of aqueous solutions of sandalfix red dye for gamma dosimetry.	<i>Journal of Basic and Applied Sciences</i> , 2012. 8: 437-433	2012	
•	Hashim Farooq, <b>Yasir Jamil</b> , Muhammad Raza Ahmad, M. Afzal Ahmad Khan, Tahir Mahmood, Zeeshan Mahmood, Zia ul Haq and Shakeel Ahmad Khan. Lead pollution measurement along national highway and motorway in Punjab.	<i>Pakistan. Journal of Basic and Applied Sciences</i> , 2012. 8: 463-467	2012	
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•	Perveen, R., <b>Y. Jamil</b> , M. Ashraf, Q. Ali, M. Iqbal and M. R. Ahmad. 2011. He-Ne laser-induced improvement in biochemical, physiological, growth and yield characteristics in sunflower ( <i>Helianthus annuus</i> L.).	Photochemistry and Photobiology, 87(6): 1453–1463.	2011	6.814
•	Khuram Ali, Asma Iqbal, M. Raza Ahmad, <b>Yasir Jamil</b> , Sohail Aziz Khan, Nasir Amin, Muhammad Adnan Iqbal and M. Zubir Mat Jafri. Structural characterization of CuFe <sub>2</sub> O <sub>4</sub> nanocomposites and synthesis by an economical method.	<i>Science International</i> . 2011. 23 (1): 21-25	2011	
•	Khuram Ali, Asma Iqbal, M. Raza Ahmad, <b>Yasir Jamil</b> , M. Adnan Iqbal. Thermal performance evaluation of a solar oven using plane reflector mirrors.	<i>Science International</i> . 2011. 23(3): 223-228	2011	
•	Perveen, R., Q. Ali, M. Ashraf, F. Al-Qurainy, <b>Y. Jamil</b> and M. Raza Ahmad. 2010. Effects of different doses of low power continuous wave He-Ne laser radiation on some seed thermodynamic and germination parameters, and potential enzymes involved in seed germination of sunflower ( <i>Helianthus annuus</i> L.).	Photochemistry and Photobiology, 86(5): 1050–1055.	2010	6.814
•	<b>Jamil, Y.</b> , M. R. Ahmad, K. Ali, A. Habibeb and M. Hassan. Use of solar energy for disinfection of polluted water.	Soil and Environ. 2009. 28 (1): 13-16	2009	
•	Azam, M. <b>Y. Jamil</b> , M. Mussadiq, R. Zahira and M. Y. Javed. Fabrication and performance study of slope type electric cum solar oven.	Pakistan Journal of Agricultural Sciences. 46(3): 228-231	2009	0.748
•	Azam, M, A. Haider, <b>Y. Jamil</b> and	Pakistan Journal	2009	0.748

	Nasir Amin. Effect of heat treatment on the properties of high-Tc Bi based superconductors.	of Agricultural Sciences. 2009. Vol. 46(4): 1-5		
•	<b>Jamil, Y.</b> , M. R. Ahmad, K. Ali, A. Habeeb and M. Hassan. Use of solar energy for disinfection of polluted water.	<i>Soil and Environ.</i> 2009. 28 (1): 13-16	2009	
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•	Azam, M, A. Haider, <b>Y. Jamil</b> and Nasir Amin. Effect of heat treatment on the properties of high-Tc Bi based superconductors.	<i>Pakistan Journal of Agricultural Sciences.</i> 2009. Vol. 46(4): 1-5	2009	0.856
•	<b>Jamil, Y.</b> , M. Raza, and N. Muhammad. Efficient solar energy conversion in a low cost flat-plate solar cooker fabricated for use in rural areas of the south asian countries.	Mehran University Research Journal of Engineering and Technology 27, 2008, no. 2: 193-198.	2008	
•	<b>Jamil, Y.</b> , N. Amin, M. R. Ahmad, Zia ul Haq and A. Hussain. Qualitative analysis of the suspended particulate matter in the environment of an industrial and a non-industrial city of Pakistan.	<i>Soil and Environ.</i> 2008. 27(1): 83-86	2008	
•	Ahmad, M. R., <b>Y. Jamil</b> , Zia ul Haq and N. Amin. 2008. An efficient portable and fast response digital humidity meter for use in the preservation of agricultural food products.	Pakistan journal of agricultural sciences. 2008, 45(1): 107-111	2008	0.748
•	<b>Jamil, Y.</b> , M. R. Ahmad, A. Hafeez, Zia ul Haq and N. Amin. Microwave assisted synthesis of fine magnetic ferrite particles using co-precipitation technique.	Pakistan journal of agricultural sciences. 2008, 45 (3): 59-64	2008	0.748
•	<b>Jamil, Y.</b> , M. Raza, and N. Muhammad. Efficient solar energy conversion in a low cost flat-plate solar cooker fabricated for use in rural areas of the south asian	<i>Mehran University Research Journal of Engineering and</i>	2008	

	countries.	<i>Technology</i> 27, 2008, no. 2: 193-198.		
•	<b>Jamil, Y.,</b> N. Amin, M. R. Ahmad, Zia ul Haq and A. Hussain. Qualitative analysis of the suspended particulate matter in the environment of an industrial and a non-industrial city of Pakistan.	<i>Soil and Environ.</i> 2008. 27(1): 83-86	2008	
•	Ahmad, M. R., <b>Y. Jamil</b> , Zia ul Haq and N. Amin. 2008. An efficient portable and fast response digital humidity meter for use in the preservation of agricultural food products.	<i>Pakistan journal of agricultural sciences.</i> 2008, 45(1): 107-111	2008	0.856
•	<b>Jamil, Y.,</b> M. R. Ahmad, A. Hafeez, Zia ul Haq and N. Amin. Microwave assisted synthesis of fine magnetic ferrite particles using co-precipitation technique.	<i>Pakistan journal of agricultural sciences.</i> 2008, 45 (3): 59-64	2008	0.856
•	Zahid Ali, Zia ul Haq, <b>Yasir Jamil</b> , Muhammad Zagum Hanif, Muhmood ul Hassan and Nasir Amin.	<i>Pakistan Journal of Life Sciences,</i> 2008. 6(1): 42-46	2008	0.95
•	Han, J., <b>Y. Jamil</b> , D. V. L. Norum, P. J. Tanner and T. F. Gallagher. 2006. Rb nf quantum defects from millimeter-wave spectroscopy of cold Rb85 Rydberg atoms.	Physical Review A - Atomic, Molecular, and Optical Physics, 74(5): 2–5.	2006	3.14
•	Li, W., P. J. Tanner, <b>Y. Jamil</b> and T. F. Gallagher. 2006. Ionization and plasma formation in high n cold Rydberg samples.	European Physical Journal D, 40(1): 27–35.	2006	1.425
•	Sami-Ul-Haq, S. Mahmood, N. Amin, <b>Y. Jamil</b> , R. Ali and M. A. Baig. 2006. Measurements of photoionization cross sections from the 5s5p 1P1 and 5s6s 1S0 excited states of strontium.	Journal of Physics B: Atomic, Molecular and Optical Physics, 39(7): 1587–1596.	2006	1.917
•	Shaikh, N. M., B. Rashid, S. Hafeez, <b>Y. Jamil</b> and M. A. Baig. 2006. Measurement of electron density and temperature of a laser-induced zinc plasma.	Journal of Physics D: Applied Physics, 39(7): 1384–1391.	2006	3.207
•	MZ Sultan, Y Jamil, Y Javed, SK Sharma. Thermal Response of	Book chapt		

	Iron Oxide and Metal-Based Iron Oxide.		
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#### **BOOKS PUBLISHED BY INTERNATIONAL PUBLISHERS:**

- Nasir Amin, **Yasir Jamil**, Muhammad Aslam Baig. 2014. Photoionization cross sections of alkali metals. Lambert Academic Publishing, Germany.  
( ISBN: 13- 978-3-659-55208-3; 10- 3659552089)
- Muhammad Shafa, **Yasir Jamil**, Muhammad Raza Ahmad and Farrukh Shabbir. 2012. Digital Pyranometer. Lambert Academic Publishing, Germany.

#### **BOOK CHAPTERS IN INTERNATIONAL BOOKS**

- Size and Shape Control Synthesis of Iron Oxide–Based Nanoparticles: Current Status and Future Possibility by Khuram Ali, Yasir Javed, and **Yasir Jamil**. In: Complex Magnetic Nanostructures. Elsevier. (2017)
- Magnetic Nanoparticle-Based Hyperthermia for Cancer Treatment: Factors Affecting Heat Generation Efficiency by Yasir Javed, Khuram Ali, and **Yasir Jamil**. In Complex Magnetic Nanostructures. Elsevier. (2017)
- Ifrah Kiran Naveed Akhtar Shad M. Munir Sajid **Yasir Jamil** Yasir Javed. Graphene Functionalized PLA Nanocomposites and Their Biomedical Applications. Springer Nature Singapore (2021)
- Kanwal Akhtar, Naveed Akhtar, Shad M. Munir Sajid, Yasir Javed, Muhammad Asif, Khuram Ali Hafeez Anwar, **Yasir Jamil**. K. Sharma. Photovoltaic-Based Nanomaterials: Synthesis and Characterization. (2020). Solar Cells from Material to Device Technology. Springer

#### **Editorial Work for Scholarly Journals (having impact factor):**

Reviewer of many international journals like Laser Physics Letters, Photochemistry and Photobiology, Applied Physics A, Optics and Laser Technology etc.  
Some examples of reviewed manuscripts are:

#### **Reviewer of Several International Projects**

- **Reviewer of Ecotoxicology and Environmental Safety**

The manuscript with the following information has been reviewed:

Ms. No.: EES-14-1176; Title: Physiochemical mechanism of He-Ne laser

preillumination protects wheat seedlings against photosynthetic impairment induced by enhanced ultraviolet-B

- **Reviewer of Materials Chemistry and Physics**

Ms. Ref. No.: MATCHEMPHYS-D-14-01578

Title: Frequency Response of Microwave Dielectric Based on Tunable Crystallographic Defects of  $\beta$ -MnO<sub>2</sub>

- **Reviewer of Chemistry and Ecology**

Reviewed the manuscript No. GCHE-2013-0234.R1, title: Determination of environmental safety level with laser induced breakdown spectroscopy.

- **Reviewer of Agricultural Water Management**, Ref.: Ms. No. AGWAT6661, Effect of water magnetic treatment on seed germination and seedling growth of wheat.

- **Reviewer of Applied Physics A**,

Ref.: Ms. No. APYA-D-15-01532

Effect of Structural Geometry on the Performance of Laser Ablative Propulsion Thruster. Applied Physics A

- **Reviewed the manuscript** No. GCHE-2013-0234.R1, title: Determination of environmental safety level with laser induced breakdown spectroscopy. (**Annex-**

- **Reviewer of Journal JoVE**, for "Enhancement of the Initial Growth Rate of Agricultural Plants by Using Static Magnetic Fields".

- **Reviewer for Manuscript** Number INTAGRO-D-15-00019

Changes at biochemical processes and yielding of pea as an effect of laser seeds irradiation.

#### **ORGANIZING OF NATIONAL/INTERNATIONAL SEMINARS/SYMPOSIA/WORKSHOPS**

- A workshop on **Effective use of Mendeley A Reference Management Tool**. November 22, 2018. Organized by Directorate of Academics and Teaching Resource Center.
- Organized an **International Conference on New Frontiers in Experimental and Theoretical Physics**. April 16-17, 2018. Organized by Department of Physics, University of Agriculture Faisalabad.
- Organized an **International Symposium on New Frontiers of Physics**. October 19, 2018. Organized by Department of Physics, University of Agriculture Faisalabad
- Organized a **Training Workshop on Solar System Installation and Applications**. February 24-25, 2017. Organized by Department of Physics, University of Agriculture Faisalabad.
- Organized a Seminar on **“Personality Development and Grooming”**. November 26, 2016. Department of Physics, University of Agriculture Faisalabad.
- One Day Symposium **Emerging Trends in applied Physics**. December 3, 2016. Organized by Department of Physics, University of Agriculture Faisalabad.
- **Organized as Convener a scientific activity on “New horizons and recent advancement in Physics” 24<sup>th</sup> April, 2015**  
(This activity was focused on imparting knowledge regarding new trends in Physics)



research. The main focus was the lecture by the Project Director, National TOKAMAK program of Pakistan. He described about the development of this Fusion Energy reactor in the country. There were more than 200 participants in the activity including faculty members from various departments of UAF as well as from other institutions like GCW, Government Post graduate colleges, etc. along with the research students of UAF.)

- **Organized the visit of and lecture by the Director CHI-VAC China, Dr. Fangzhun Guo. o n 11<sup>th</sup> March, 2015. Title of lecture: “ Introduction to pulsed laser deposition vacuum technologies”.**  
(This lecture was the follow up by another lecture on Liquid TEM, and its applications in life sciences)
- **Organized a thought provoking session and lecture on “Seerat un Nabi (SAW) aur asr-e-hazir kay taqazay on May 25, 2015.** The lecture was focused on the life of the Holy Prophet Muhammad (PBUH) with a particular focus on his teaching methodologies.
- **Organized the “Workshop on reference management in scientific writings” on 25<sup>th</sup> October, 2014 at Video Conferencing Room, University of Agriculture Faisalabad.**  
(This activity was focused on imparting practical training regarding the use of online resources to manage and use the literature effectively. There were more than 100 participants in the activity including faculty members from various departments of UAF as well as from other institutions like GC W, Government Post graduate colleges, etc. along with the research students of UAF.)
- **Organized the visit of and lecture by the Director National Institute of Lasers and Applied Sciences (NILOP), Pakistan Atomic Energy Commission Islamabad on 20<sup>th</sup> October, 2014. Title of lecture: “ Research activities at NILOP with special emphasis on the use of lasers in life sciences”.** (This lecture was the follow up activity of the MOU between UAF (through Laser Spectroscopy Lab., Department of Physics) and NILOP Islamabad for mutual research between the two institutions).
- **Organized a two day workshop on Vacuum Technology as convener.** The work shop was a part of the Golden Jubilee Celebrations of the University of Agriculture, Faisalabad. The speakers were from NINVEST Islamabad and participants from various educational institutes and research organizations of Faisalabad and surroundings. The number of participants was more than 100.
- **Organized a Science Exhibition at PARS** as a part of awareness program of the general public about Intermediate Pre agriculture. There were more than 60 scientific models exhibited there. (Annex 38 A and B)
- **Organized International Seminar on Advanced Nanomaterials. June 12, 2012 at University of Agriculture Faisalabad.**
- **Served in different committees for Golden Jubilee celebrations of UAF.** Wrote and directed a **play on environmental pollution and its effects** which was presented by Physics students at Iqbal Auditorium during Faculty of Sciences program for Golden Jubilee. (Annex 39)
- **Participated and presented paper in 10<sup>th</sup> International and 22<sup>nd</sup> National Chemistry conference** (Nov. 21-23, 2011) held at UAF

- **Departmental representative for review of revised curriculum** and rationalization of courses
- **Member Faculty Board**, Faculty of Sciences, University of Agriculture, Faisalabad
- Member of several purchase committees for purchase of scientific equipment.
- Participation in **International symposium on Technologies and Materials for Renewable Energy, Environment & Sustainability. (6-7 Feb 2019)**
- Participated as Invited speaker in the **3<sup>rd</sup> National symposium on laser Matter Interaction (LMI)**, Organized by Atomic and laser physics Department, National center for physics (NCP), Islamabad, Pakistan. (16-17 SEP 2019)
- Participated in One day symposium as Director academics on **Control of some Potential Rodent Pests Using Eco-Sustainable Technologies for Crops and Indoor Environments in the selected Agro Ecological Zones of Punjab, Pakistan. (SEP 30, 2019)** organized by Dept. of Zoology, Wildlife & Fisheries Agriculture innovation program (CIMMYT).
- Participated as Speaker in two-day Webinar **2<sup>nd</sup> International symposium on Modern Trends in Physics (March 17-18, 2021)**. Organized by Department of physics GC university Faisalabad, Pakistan.
- Organized community symposia on **public awareness campaign for recycling home garbage employing waste to energy concepts** on December 24, 2019, at University of Agriculture, Faisalabad.
- Participated as Organizer in **4<sup>th</sup> International conference on material sciences & nanotechnology** (March 3-5, 2020). Organized by GC University Faisalabad, Pakistan.
- Participated as member of expert panel for poster evaluation in **One day symposium on Nanotechnology research in Pakistan** (NOV 25, 2020). Organized by National institute for biotechnology and genetic engineering (NIBGE), Faisalabad.
- Participated in One day seminar on **Recent Development in relativity and cosmology** (FEB 15, 2019). Organized by Department of physics GC women University Faisalabad.
- Organized a seminar on **Recent development in space exploration** (JAN 29, 2019). Organized by Department of physics, university of Agriculture Faisalabad, Pakistan.

#### **PRESENTATIONS/PUBLICATIONS IN INTERNATIONAL CONFERENCES/ SYMPOSIA:**

- M. Umair, M. Amir Ali, U. Shahid, S. Shukrullah, M. Y. Naz, A. Ghaffar, **Y. Jamil**. Synthesis of Carbon Nanotubes through FCCVD technique by using Si/SiO<sub>2</sub>/ Al<sub>2</sub>O<sub>3</sub> substrate and ferrocene catalyst. **2<sup>nd</sup> International Conference on Materials Science and Nanotechnology 2018 (MSNANO-18) 19-20 February, 2018. (page:40)**
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- A. Masood, M. Imran, H. Naseem, Y. Jamil\*. Laser induced breakdown spectroscopy of chromium doped nickel-zinc ferrite. **Published in the Advances in Experimental and Theoretical Physics, 2021.**
- A. Saleem, I. Afzal, Y. Jamil\*. Elemental analysis of industrial steel samples using laser induced breakdown spectroscopy. **Published in the Advances in Experimental and Theoretical Physics, 2021.**
- I. Afzal, A. Saleem, A. Afzal, Y. Jamil. Quantification of soil nutrients using Laser induced breakdown spectroscopy (LIBS). **Published in the Advances in Experimental and Theoretical Physics, 2021.**
- M. H. Zaman, F. Rehman, Y. Jamil\*, M. S. Tahir, R. Asghar. Element content of azadirachta indica (a. Indica) species using atomic absorption spectroscopy. **Published in the Advances in Experimental and Theoretical Physics, 2021.**
- M. Q. Humayoon, Y. Jamil\*, H. Anwar, S. Al Islam, M. Bilal, M. S. Tahir. Portable solar cells for solar powered umbrella. **Published in the Advances in Experimental and Theoretical Physics, 2021.**

**PARTICIPATION IN INTERNATIONAL CONFERENCES/WORKSHOPS**

- Participated in **One Day International Symposium on Prospective Developments in Environmental and Material Sciences**. April 19, 2018. Organized by Department of Physics, Government College Women University Faisalabad.
- Participated as Guest in **One Day Symposium on Nanotechnology Applications in Pakistan: Present Scenario and Future Avenues**. October 24, 2018. Organized by National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.
- Participated as **2<sup>nd</sup> International Conference on Materials Science and Nanotechnology 2018 (MSNANO-18)**. February 19-20, 2018. Organized by Department of Physics, Government College University Faisalabad.
- Participated as Invited Speaker in **Two Days Seminar on Emerging Trends in Physics**. February 7-8, 2018. Organized by Department of Physics, Government College Women University Faisalabad.
- Participated as Invited Speaker in **International Symposium on Emerging Trends in Physics**. May 07, 2018. Organized by Department of Physics, The University of Lahore (Sargodha Campus).
- Participated in **10<sup>th</sup> International Scientific School-2018**. March 12-16, 2018. Organized by National Center for Physics (NCP), Islamabad, Pakistan and The Abdus Salam International Centre for Theoretical Physics (AS-ICTP), Trieste, Italy.
- **First International Conference on Mathematics and Physics**. February 14-16, 2017. Organized by Department of Mathematics and Physics at Air University, Islamabad.
- **International Conference on Materials Science and Nanotechnology**.

- February 18-19, 2017. Organized by Government College University Faisalabad.
- **International Workshop on Renewable Energy Technologies in Pakistan.** November 08-09, 2016. Organized by the University of Agriculture Faisalabad.
  - **NOOR 2<sup>nd</sup> International Symposium on “Applied Materials and Nanodevices”,** NILOP, Nilore, Islamabad. November 14-16, 2016.
  - International workshop on renewable energy technologies for community development in Pakistan. 4-6 Nov. 2015. (DAAD, Germany and UAF)
  - **International Conference of Biochemical and Chemical Sciences (ICBCS-2014).** February 24-26, 2014. The theme was Go Greener for Sustainable Economy. Organized by the Department of Chemistry and Biochemistry, University of Agriculture Faisalabad-Pakistan.
  - **International Scientific Spring-2014.** Jointly organized by the National Centre for Physics Pakistan and The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
  - **International Workshop on Renewable Energy Technologies in Pakistan.** December 16-18, 2014. Organized by the University of Agriculture Faisalabad.
15. **29<sup>th</sup> International Nathiagali Summer College** on Physics and Contemporary Needs; the session on Synchrotron Radiation and Laser Physics. 2<sup>nd</sup> July to 5<sup>th</sup> July, 2004.
16. **1<sup>st</sup> International Conference on Advances in Space Technologies:** Space Technologies for Disaster Management and Rehabilitation 2-3 Sep. 2006, Islamabad, Pakistan
17. **32<sup>nd</sup> International Nathiagali Summer College** on Physics and Contemporary Needs, 2<sup>nd</sup> to 7<sup>th</sup> July 2007
- **International Conference** of Plant Scientists, (10<sup>th</sup> National Meeting of Plant Scientists) 21<sup>st</sup> to 24<sup>th</sup> April, 2008. University of Agriculture, Faisalabad.
  - **Workshop on Smart Materials**, held at NCP, Islamabad, Pakistan, 10<sup>th</sup> Aug, 2009.
  - **International Conference on Sustainable Good Grain Production, Challenges and Opportunities**, October 26-27, 2009, Organized by Pakistan Society of Agronomy, held at University of Agriculture, Faisalabad, Pakistan.
  - **10<sup>th</sup> international Chemistry Conference** held at University of Agriculture Faisalabad. Nov. 21-23, 2011
  - **International Workshop on Solar and Bio Energy Systems** entitled: Value Addition to Agricultural Products Using Solar Energy” held on Nov. 24, 2011. Organized by the Department of Farm Machinery and Power, UAF.

- **Technology workshop on atomic physics and nanofabrication. April 03-05, 2012 held at National Institute of Lasers and Optronics (NILOP), Islamabad, Pakistan**
- **International Workshop on Laser matter interaction organized by COMSTECH Islamabad. (September 11-13, 2012)**

## **PRESENTATIONS/PUBLICATIONS IN LOCAL CONFERENCES**

- Khalid Hussain, **Yasir Jamil** and Muhammad Zafar Ilyas. Effect of zinc substitution on structural properties of cadmium ferrite. **2<sup>nd</sup> National Conference on Physics and Emerging Sciences**, held at Islamabad. 7-8 April 2014. (page:22)
- Ahsan Elahi, **Yasir Jamil**, Syed Zafar Iqbal. Effect of Zn substitution on structural and dielectric properties of copper ferrite. **2<sup>nd</sup> National Conference on Physics and Emerging Sciences**, held at Islamabad. 7-8 April 2014. (page:28)
- Mubeen Aslam, **Yasir Jamil** and Syed Zafar Iqbal. Measurement of temperature and electron number density of laser induced copper plasma. **2<sup>nd</sup> National Conference on Physics and Emerging Sciences**, held at Islamabad. 7-8 April 2014. (page:97)
- First NCP Scientific Spring 2009 held at NCP Islamabad (5<sup>th</sup> to 9<sup>th</sup> April, 2009. Topic: **Interactions among cold Rydberg Atoms by Yasir Jamil**
- 10<sup>th</sup> National Symposium on Frontiers in Physics (from 11<sup>th</sup> Jan. to 15<sup>th</sup> Jan.2005) held at Lahore, Pakistan. **“Measurement of Absolute Photo ionization Cross Section of Potassium by Using Two-Photon Excitation”**.  
Nasir Amin, **Yasir Jamil**, Shaukat Mahmood, M. Anwar ul Haq, and M A Baig
- 10<sup>th</sup> National Symposium on Frontiers in Physics (from 11<sup>th</sup> Jan. to 15<sup>th</sup> Jan.2005) held at Lahore, Pakistan. **“Design, Fabrication and Performance of Time of Flight Mass Spectrometer”**. M. Saleem, **Yasir Jamil**, Sami ul Haq, Raheel Ali and M A Baig.]
- **10<sup>th</sup> National Symposium on Frontiers in Physics** (from 11<sup>th</sup> Jan. to 15 Jan. 2005) held at Lahore, Pakistan, “ The measurement of temperature and number density of copper plasma produced by the fundamental mode of Nd:YAG laser.”Babar Rashid, Sarwat Hafeez, Nek m. Shaikh, **Yasir Jamil**, R., Ali, and M. A. Baig
- The 33<sup>rd</sup> All Pakistan Science Conference held at the University of Agriculture, Faisalabad from 25<sup>th</sup> to 28<sup>th</sup> December, 2002. **Preparation and Microstructural Studied of Manganese Ferrite Fine Magnetic Particles**.  
**Yasir Jamil** and Muhammad Anwar
- The 33<sup>rd</sup> All Pakistan Science Conference held at the University of Agriculture, Faisalabad from 25<sup>th</sup> to 28<sup>th</sup> December, 2002. A modified form of tent type solar still. H. Sadiq, **Y. Jamil**, and S. Ahmad
- The 33<sup>rd</sup> All Pakistan Science Conference held at the University of Agriculture, Faisalabad from 25<sup>th</sup> to 28<sup>th</sup> December, 2002. An improved design of low cost solar food oven. **Y. Jamil**, H. Sadiq, I. Yousaf and A. Hussain.
- The 33<sup>rd</sup> All Pakistan Science Conference held at the University of Agriculture, Faisalabad from 25<sup>th</sup> to 28<sup>th</sup> December, 2002. Fabrication and performance study of digital hygrometer. M. R. Ahmad and **Y. Jamil**
- Rabia Hassan, Nasir Amin, **Yasir Jamil**, Hashim Farooq, Khawar Abbas and Shakeel Ahmad Khan. Laser Induced Breakdown Spectroscopy of Marine Sediments. Published in the proceedings of Pakistan Physical Society Conference on Contemporary Physics (15-17 November, 2011), held at University of Gujrat, Gujrat.



- Ghulam Mustafa, Misbah ul Islam and **Yasir Jamil**. Investigation of Structural, optical and magnetic properties of cobalt based cesium substituted magnetic nanoparticles. Published in the proceedings of Pakistan Physical Society Conference on Contemporary Physics (15-17 November, 2011), held at University of Gujrat, Gujrat.
- Hashim Farooq, Nasir Amin, **Yasir Jamil**, Kamran Hafeez, Muhammad Khawar Abbas and Muhammad Raza Ahmad. Identification of toxic elements in paints using laser induced breakdown spectroscopy. Published in the proceedings of Pakistan Physical Society Conference on Contemporary Physics (15-17 November, 2011), held at University of Gujrat, Gujrat.
- Keynote lecture delivered at seminar on science and future of Pakistan at the institute of leadership and management, Faisalabad on 30-12-2010

#### **PARTICIPATION IN LOCAL CONFERENCES/SEMINARS/SYMPOSIA**

- 1st International Conference on Advances in theoretical & Applied Physics in Government College Women University Faisalabad **19<sup>th</sup> February 2019**.
- Participation in the symposium on Advances in Quantum Technologies **25<sup>th</sup> April 2019** Organized by National Institute of Lasers and Optronics (NILOP) Islamabad.
- **“Celebrating Light (IYL-2015,Abn Al-Haytham)”** jointly organized by the National Centre for Physics (NCP), Islamabad, Pakistan and Quaid-i-Azam University, Islamabad. February, 2-3, 2015.
- **“New horizons and recent advancement in Physics” 24<sup>th</sup> April, 2015.**
- Training workshop on advanced chemical techniques in natural and applied sciences. Department of Chemistry and Central Hi Tech Lab. UAF.
- Participated in DICE 2015, Mega Innovation and Entrepreneurship Even, November 24-25, 2015.
- Indigenous On Campus training (IOT), Under Modern University Governance Program at University of Agriculture Faisalabad, May 07-12, 2015, Organized by the University of Agriculture Faisalabad and Higher Education Commission of Pakistan..
- Workshop on self-assessment reports (SARs), organized by the Quality Enhancement Cell, University of Agriculture Faisalabad, Pakistan, held on 24-03-2014.
- Workshop on Developing Industry driven technologies. Organized by the UAF and PASTIC jointly on 27<sup>th</sup> September, 2014 at University of Agriculture Faisalabad.
- One day workshop on Vacuum Science and Technology. January 17, 2014. Organized by the Department of Physics, GC University Faisalabad, Pakistan.
- 33<sup>rd</sup> All Pakistan Science Conference (from 25<sup>th</sup> to 28<sup>th</sup> December 2002 held at Univ. of Agriculture, Faisalabad.)
- 10<sup>th</sup> National Symposium on Frontiers in Physics from 11<sup>th</sup> to 14<sup>th</sup> January, 2005.Lahore, Pakistan
- Role of Nano Biotechnology in Diagnosis and Treatment of Diseases, held on 10<sup>th</sup> September 2007 at National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad, organized jointly by Pakistan Association for the Advancement of Science and NIBGE.
- Seminar on “Energy Saving” jointly organized by the FESCO and UAF, held at University of Agriculture, Faisalabad (December 14, 2008)
- International Conference on Sustainable Good Grain Production, Challenges and

Opportunities, October 26-27, 2009, Organized by Pakistan Society of Agronomy, held at University of Agriculture, Faisalabad

- First NCP Scientific Spring 2009, organized by NCP, Islamabad (5-9 April, 2009)
- First national symposium on LASERS jointly organized by KSS and CASP, University of the Punjab, New campus, Lahore, held on 13<sup>th</sup> May 2010.
- Imparting practical training in molecular and biochemical techniques held on June 08 to 14, 2011, organized by Department of Chemistry and Biochemistry, UAF
- 11<sup>th</sup> International Symposium on Advanced Materials, (ISAM 2009), Held at Islamabad Pakistan (8-12 August, 2009)
- Seminar on science and future of Pakistan at the institute of leadership and management, Faisalabad on 30-12-2010
- National seminar on nanotechnology: opportunities and future prospects in Pakistan held on December 06, 2012 at GC University Faisalabad

## **COURSES AND TRAININGS**

- Training Course on “The Safety Measures in the use of Radiation in Agriculture and Biology” held at NIAB, Faisalabad. 23<sup>rd</sup> to 27<sup>th</sup> June, 1997.
- Computer Course. La Salle Computer Center, Faisalabad. 9<sup>th</sup> May to 8<sup>th</sup> August, 1994.
- Workshop on soft x-rays beam line for SESAME, organized by National Center for Physics, 26-27 April, 2005

## **LECTURES DELIVERED AS RESOURCE PERSON**

- Invited Lecture delivered at The Government Postgraduate Islamia College Faisalabad, on Laser and its Applications on 17<sup>th</sup> April, 2019.
- Invited Speaker in 1<sup>st</sup> National Symposium on Laser Matter Interaction (LMI). 13-14 September, 2017. Held at National Centre for Physics (NCP), Islamabad, Pakistan.
- Lecture delivered on One Day Seminar on Applied Physics, January 25, 2017. Organized by Department of Physics, University of Education Faisalabad Pakistan.
- Invited Speaker in “**Celebrating Light (IYL-2015, Abn Al-Haytham)**” jointly organized by the National Centre for Physics (NCP), Islamabad, Pakistan and Quaid-i-Azam University, Islamabad. February, 2-3, 2015. The lecture was on the use of lasers and electromagnetic radiation for the enhancement of agricultural production.
- Delivered a training lecture and practical demonstration on “Laser induced breakdown spectroscopy” in the Training workshop on advanced chemical technique in natural and applied sciences, 10-12 September, 2015. Organized by the Central Hi-Tech Lab. And the Department of Chemistry, UAF.
- Invited lecture delivered at 2<sup>nd</sup> Seminar on Physics, on Laser Spectroscopy, at Government Postgraduate Murray College Sialkot, 26<sup>th</sup> March 2015.
- Invited Lecture delivered at The Government Postgraduate College Jhang, on Laser and its Applications on 4<sup>th</sup> April, 2015.

## **5. Radio Talks:**

- Radio talk on 28<sup>th</sup> May, 2015. About Youm e Takbeer. The role of Physics in the

development of the country and its defense was discussed in Live Program. 9:05 am to 10:05 am.

- Radio talk on 11<sup>th</sup> December, 2016, about World Mountain Day. 9:05 to 10:05 am
- Radio talk on 28<sup>th</sup> May, 2017, on Youm e Takbeer. 9.05 am to 9.35 am. FM 93.

### **INVITED LECTURES:**

Invited Speaker in **Two Days Seminar on Emerging Trends in Physics**. February 7-8, 2018. Organized by Department of Physics, Government College Women University Faisalabad.

Participated as Invited Speaker in **International Symposium on Emerging Trends in Physics**. May 07, 2018. Organized by Department of Physics, The University of Lahore (Sargodha Campus).

**Invited lecture** on Laser spectroscopy and laser cooling technique delivered at Government Post graduate T. I. College Chenab Nagar, 14<sup>th</sup> April, 2008.

**Lectures delivered as resource person** at the workshop organized by the Allama Iqbal Open University in April 2007 at University College of Education Faisalabad:

- Importance of projected media in Physics Education
- Radioactivity and its uses
- Characteristics of Sound
- Aims, Goals and Objectives of teaching Physics
- **Lecture delivered as a resource person** at the workshop organized by the Allama Iqbal Open University in October 2006, on use of computers in education and research.
- **Invited Lecture delivered at Teacher Training Course** in Faisalabad on “Modern Physics with emphasis on Uses and Hazards of Radiation.” in May, 2002.
- **Lectures delivered as resource person at the workshop organized by the Allama Iqbal Open University** in May, 2009
- **Lecture delivered in technical session of International Workshop on Solar and Bio Energy Systems** entitled: Value Addition to Agricultural Products Using Solar Energy” held on Nov. 24, 2011. Organized by the Department of Farm Machinery and Power, UAF. Topic of lecture: Performance evaluation of box type solar oven.  
**Key note lecture** delivered in workshop on Imparting practical training in molecular and biochemical techniques held on June 08 to 14, 2011, organized by Department of Chemistry and Biochemistry, UAF
- **Lecture delivered as resource person at International Workshop on Laser matter interaction**, organized by COMSTECH Islamabad. (September 11-13, 2012) Topic of lecture: Ultracold Rubidium Rydberg atoms
- **Lecture delivered as resource person in HEC workshop on imparting practical training in the molecular and biochemical techniques**. Nov. 27-Dec. 01, 2012. Topic of lecture: Laser Spectroscopy in life sciences

### **Editorial Work for Scholarly Journals (having impact factor):**

Reviewer of many journals like Photochemistry and Photobiology , AgroPhysics, Laser Physics Letters etc.

### **New Courses Developed**

I have designed a **new course entitled “Renewable Energy Resources”** for Under graduate

students. This course was approved in the meeting of Academic Council held on 4-6-2011

### **Revision of Post Graduate Curriculum**

The complete curriculum of the Department of Physics, and initiation of Ph.D. program in Physics.

### **POPULAR ARTICLES**

Article published in Daily Nawa-i-Waqt dated 21-12-2008. Title: Tawanai ka aalmi bohran, waqt kay taqazay.

Article on website “ Solar dehydration for preservation of agricultural products” available on [www. Pakissan.com](http://www.Pakissan.com).

### **CO CURRICULAR ACTIVITIES**

Prizes in Speech competition, participation in plays, quiz competitions etc.

Designated as Judge in Intel Science Olympiad (2007 and 2008)

Organization of World Environment Day celebrations at University of Agriculture, Faisalabad

Organization of various events and provision of guidance to students in these activities

### **MEMBERSHIP OF THE SOCIETIES**

- Member of the **American Physical Society**
- Member of the **Pakistan Physical Society**
- Member of **AIKwarzimi Society**

### **RESEARCH INTERESTS:**

Laser Spectroscopy, laser cooling, saturated absorption spectroscopy using diode lasers, laser matter interaction.

## **Advisory, Administrative and Community Services**

- Member of Selection Board of University of Sargodha as subject expert
- Member of Selection Board of GCU Faisalabad as subject expert
- Member of Selection Board of National Textile University as subject expert
- External Examiner for Evaluation of M.Phil Thesis, COMSATS Institute of Information Technology, Lahore.
- External Examiner for Evaluation of Thesis of M.Phil, Federal Urdu University, of Arts, Science and Technology, Karachi.
- Member of Oral Comprehensive Examination Committee at UAF.
- External Examiner for Evaluation of Thesis of M.Phil Physics, BZU. Multan.
- Paper Setter for Government College University, Faisalabad.
- Member of Faculty Board, Faculty of Agri. Engineering and Technology, UAF Faisalabad.
- Member of Tender committee, UAF, Faisalabad. Convener of the Faculty Synopsis Scrutiny Committee, UAF (for the departments of Computer Science and Physics).
- Member Academic Council University of Agriculture Faisalabad.
- Member Faculty Board, Faculty of Sciences, UAF.
- Member of several purchase committees of the University of Agriculture Faisalabad.
- Member Board of Studies of GC Women University Faisalabad.
- External examiner for M.Phil Physics thesis examination of GC University Faisalabad
- Member Board of studies of the National Textile University (Department of Applied Sciences).

- External examiner for evaluation of M.Phil. theses. of International Islamic University.
- Member of Tender Committees of various committees
- Member of the committee for evaluation of research proposals in the field of Nano Technology
- Member of the Annual Physical Verification Committee of the Faculty of Sciences.
- Member of the Administrative setup for the Student Startup Business Setup.
- Convener of the combined working group for Nanotechnology. A proposal to streamline the research activities in the field of Nanotechnology.
- Convener of the Vigilance Committee, Faculty of Sciences, University of Agriculture Faisalabad.
- Member of the Sub Committee on Unfair Means cases of the University of Agriculture Faisalabad
- Member Scrutiny Committee for the post of Senior Scientist/Assistant Professor in the project, “Establishment of Punjab Bio-Energy Institute (PBI) at UAF.
- Focal Person (Faculty of Sciences, UAF) for the Prime Minister’s Laptop Scheme Phase II (2015)
- Member Evaluation committee to evaluate the Ph.D. Research Proposals Competition 2015.
- Chairman, Department of Physics, University of Agriculture Faisalabad (07-09-2014 onwards)
- Evaluator of the project proposal submitted to Endowment Fund Secretariat, UAF.
- Convener of the Vigilance Committee, Faculty of Sciences, University of Agriculture Faisalabad.
- Convener of the Faculty Synopsis Scrutiny Committee, UAF (for the departments of Computer Science and Physics).
- Member Academic Council University of Agriculture Faisalabad.
- Member Faculty Board, Faculty of Sciences, UAF.
- Member Tender Committee for the purchase of furniture etc. for various department of UAF.
- Member of several purchase committees of the University of Agriculture Faisalabad.
- Member of the committee to evaluate the Ph.D. research proposals for research proposal competition 2014.
- Member Board of Studies of GC Women University Faisalabad.
- Established research collaboration with the other institutions like NILOP, Islamabad, Islamia University Bahawalpur etc.
- External examiner for M.Sc. Physics examination of Baha ud Din Zakaria University Multan.
- Member Board of studies of the National Textile University (Department of Applied Sciences). I participated in the meetings to finalize the Post graduate curriculum of NTU.
- External examiner of Baha ud Din Zakariya University Multan for evaluation of M.Phil. theses. (03 theses were evaluated during 2014)
- External examiner for evaluation of M.Phil. Theses of University of Sargodha.
- Member of the committee for the evaluation of the proposals for “Competitive Grants for PhD Scholars at UAF”.
- Tutor of TGM (Qazi Essa Jaffar-I): completed