

Personal Detail

Name Abdul Jalil

Address: Department of Physics, Allama Iqbal Open University,
H8-Islamabad

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E-mail: abdul.jaleel@aiou.edu.pk, abdul@mail.ustc.edu.cn

Website: [Staff Member Detail \(aiou.edu.pk\)](http://Staff%20Member%20Detail%20(aiou.edu.pk))

Date of birth: 19 Dec 1984

Nationality: Pakistan

Passport No. : AH8700662



Experience

2011-to date Assistant Professor Department of Physics, Allama Iqbal Open University, Islamabad Pakistan

2020-2024 (Postdoc) School of Materials Science and Engineering, Northwestern Polytechnical University

Research Area

Research interests include development of materials design method, the design and computational simulation of spintronics materials, (photo)catalytic materials for energy, and other low-dimensional functional materials.

Education

2015-2018 (Doctorate) University of Science and Technology of China (USTC) PhD in Material Science and Engineering, 2018. USTC is amongst top world universities (2025)

2013-2015 MPhil Physics, Allama Iqbal Open University, Islamabad.

2006-2008 (MSc Physics), The University of Punjab, Lahore.

2004-2006 (Bachelors), The University of Punjab, Lahore

Current Research Work

Currently my I am working on 2D materials, Heterostructures in different applications, including

- Electronic & Optical Properties
- Gas Sensors
- Photocatalysis
- Tuning Schottky barrier Height
- Mobility calculations
- Thermoelectric Properties

2025

1. Substrate Temperature-Induced Grain Boundary Reduction for High-Efficiency Self-Powered n-V₂O₅/p-Si Photovoltaic Heterojunction Devices
J Kazmi, W Ahmad, SRA Raza, JH Shah, A Khan, MA Shahid, M Dayer, ...
Journal of Alloys and Compounds, 178811.
2. Experimental and computational study of Bi₂O₃/WO₃ heterostructures as efficient solar driven photocatalyst
E Muhammad, T Jan, A Jalil
Inorganic Chemistry Communications 171, 113581.
3. High-performance, Self-powered ZnO NWs-ZnSe Heterojunction Photodetectors for Superior Visible and Near-Infrared Detection
Z Hassan, SF Batool, J Kazmi, SRA Raza, JH Shah, A Jalil, HK Kaplan, ...
Journal of Physics D: Applied Physics
4. Mn-Mo ferrites doped with rare earth element for enhancing EMI shielding: A DFT calculation and experimental comparison
HMF Shakir, T Zhao, MU Farooq, A Jalil
Journal of Materials Science & Technology 224, 183-190
5. Chirality-selective growth of single-walled carbon nanotubes through precise regulation of interfacial behavior
L Yang, T Zhao, A Jalil, Y Yin, Y Shu, T Jiang
Journal of Materials Science & Technology
6. Structural and electronic properties of Graphene-like GeC₃ under mechanical strain: A DFT Study
AJMA Noor Ul Ain, Arooba Kanwal, Tayyaba Aftab
New Journal of Chemistry, 555
7. Electromagnetic wave absorption property of crosslinked holey Fe/FeO/Fe₂O₃/RGO nanocomposite
X Li, Y Shu, T Zhao, J Zhang, RP Feng, T Jiang, Y Yin
Ceramics International 51 (3), 2974-2984

1. Machine Learning-Assisted Screening of Hexagonal 2D van der Waals Bilayers for Photocatalysis
A Kanwal, A Jalil, SRA Raza
The Journal of Physical Chemistry C
2. Mn-Mo ferrites doped with rare earth element for enhancing EMI shielding: A DFT calculation and experimental comparison
HMF Shakir, T Zhao, MU Farooq, A Jalil
Journal of Materials Science & Technology
3. Electromagnetic wave absorption property of crosslinked holey Fe/FeO/Fe₂O₃/RGO nanocomposite
X Li, Y Shu, T Zhao, J Zhang, RP Feng, T Jiang, Y Yin
Ceramics International
4. Experimental and Computational Study of Bi₂O₃/WO₃ Heterostructures as Efficient Solar Driven Photocatalyst
AJ Ijaz Muhammad, Tariq Jan
Inorganic Chemistry Communication 11 (0888), 6789
5. Thermal annealing and DFT Insights enhance photodetection efficiency in VO_x/p-Si heterojunctions
J Kazmi, J Kazmi, SRA Raza, JH Shah, A Jalil, MA Mohamed
Ceramics International 50 (22), 46042-46050
6. Controlled growth of single-walled carbon nanotubes with narrow diameter distribution and high areal density on Mn-doped ZrO₂-supported Fe catalyst
L Yang, T Zhao, A Jalil, Y Yin, Y Shu, T Jiang
Ceramics International 50 (21), 43442-43451
7. The first-principles study of 2D monolayer T-Mo₂C as promising anode material for Lithium-ion Batteries
MH Akhlaq, A Jalil
Colloids and Surfaces A: Physicochemical and Engineering Aspects 699, 134628
8. Computational prediction of two dimensional Mo₄BC as promising anode material for lithium-ion batteries
MH Akhlaq, A Jalil, A Kanwal, T Aftab, SRA Raza
Journal of Physics and Chemistry of Solids 193, 112174
9. Electrochemical CC coupling mediated by novel Sn-SnO₂ supported Cu single atoms: The case of CO₂ conversion to ethanol
MAZG Sial, N Guo, A Jalil, M Abbas, M Mateen, S Ullah, U Alam, ZM Bhat, ...
Chemical Engineering Journal 489, 151099
10. Electromagnetic interference shielding and DFT study of barium hexaferrites nanoparticles coated polyaniline with heterointerface polarization behavior
HMF Shakir, T Zhao, MU Farooq, HR Aziz, A Jalil, K Zubair
Ceramics International

11. Modulating oxygen vacancy concentration for selective growth of semiconducting single-walled carbon nanotubes with narrow diameters
L Yang, T Zhao, A Jalil, H Luo, T Jiang, Y Shu, Y Yin, W Jia
Journal of Materials Science & Technology 174, 44-54
12. Green-route synthesis and ab-initio studies of a highly efficient nano photocatalyst: Ce/zinc-oxide nanopetals
A Hassan, A Jalil, SZ Ilyas, MF Iqbal, SZA Shah, Y Baqir
Heliyon 10 (3)
13. Li decorated graphene like MgN₄ monolayer for hydrogen storage: A first-principles approach
A Jalil, T Zhao, A Kanwal, S Hussain
Surfaces and Interfaces 45, 103927
14. Effect of strain on electronic properties of tri-layer MoS₂/h-BN/graphene van der Waals heterostructures
A Kanwal, A Jalil, RA Raza, S Ahmed, T Zhao, A Hassan, SZ Ilyas
Journal of Physics and Chemistry of Solids 185, 111776
15. Computational study of two-dimensional SnGe₂N₄ as a promising photocatalyst for the oxygen evolution reaction
NU Ain, A Kanwal, A Jalil, CF Dee, T Zhao, SRA Raza, I Ahmad
New Journal of Chemistry 48 (11), 4922-4930
16. Electromagnetic wave absorption property of crosslinked holey Fe/FeO/Fe₂O₃/RGO nanocomposite
YY Tingkai Zhao, Xianghong Li, Yuan Shu, A. Jalil, Jumin Zhang, Feng, Tao
Journal of Materials Science & Technology
17. Mechanism of liquid film migration and interface reaction in multi-layer aluminum sheets during brazing based on the homogenization annealing
MXWCAZ Yuan, Y Lu, Y Jiang, Y Tu, Z Ni, J Peng, X Chen, S Li, L Huang, ...
Journal of Manufacturing Processes under review
18. Computational prediction of phosphorene and graphene-like AsP₃ monolayers
SA Asghar, A Jalil, NU Ain, A Kanwal
New Journal of Chemistry 48 (23), 10599-10606
19. Enhanced photocatalytic water splitting with two-dimensional van der Waals heterostructures of BAs/WTeSe
BB Hanifan, A Jalil, SZ Ilyas, AG Nabi, D Di Tommaso
Materials Advances 5 (10), 4366-4377
20. Photoluminescence properties of double perovskite Ca₂LuTaO₆:Bi³⁺/Sm³⁺ white light emitting phosphors
RKZ Noor Zamin Khan, Sayed Ali Khan, Weiling Chen a b, Abdul Jalil e ...
Ceramic International, 2233
21. Computational insight on CsPbX₃ (X = Cl, Br, I) and two-dimensional MYZ (M = Mo, W; YZ = Se, S) Heterostructures
J Abdul, AK Hafsah Rashid
Materials Science in Semiconductor Processing
22. Computational Insights into Schottky Barrier Heights: Graphene and

Borophene Interfaces with H and \bar{H} -XSi₂N₄ (X = Mo, W) Monolayers

A Jalil, T Zhao, A Firdous, A Kanwal, R Raza, A Rafiq

Langmuir 15 (23)

23. MoO₂/a-CNT/ rGO as electrode material for all-in-one flexible supercapacitor with integrated structure and function

L Yang, H Zhang, J Abdul, T Jiang, Y Shu

Diamond and related Materials

24. MOF Derivatives Co@NC with Heterogeneous Distributed Gradient Structure Anchored on Carbon Foam for High-performance Electromagnetic Wave Absorption

HW Weibin Deng, Tiehu Li,* Hao Li,* Jalil Abdul, Liting Liu,* Alei Dang, Xin ... small, 23098

2023

1. Enhancing electromagnetic wave absorption and hydrophobicity/heat insulation properties of coral-like Co/CoO/RGO aerogels through pore structure regulation

Y Shu, T Zhao, X Li, L Yang, G Abdul Jalil : Feng, Y Li, W Jia, F Luo

Carbon, 118278

2. High-efficient electromagnetic wave absorption of coral-like Co/CoO/RGO hybrid aerogels with good hydrophobic and thermal insulation properties

Y Shu, T Zhao, X Jalil Abdul, Li, L Yang, F Luo

Chemical Engineering Journal, 144535

3. Prediction of direct Z-scheme H and \bar{H} -phase of MoSi₂N₄/MoSX (X= S, Se) van der Waals heterostructures: A promising candidate for photocatalysis

A Jalil, T Zhao, A Kanwal, I Ahmed

Chemical Engineering Journal, 144239

4. Catalyst regeneration and multicycle growth of high purity and yield semiconducting single-walled carbon nanotubes

L Yang, T Zhao, A Jalil, T Jiang, Y Shu

Chemical Engineering Journal 462, 142272 1

5. Green synthesis and first-principles calculations of a highly efficient antibacterial agent: CuO/Ag nanocomposites

Y Baqir, MT Tunio, SZ Ilyas, S Agathopoulos, H Mufti, A Jalil, A Hassan

Chemical Papers 77 (5), 2459-2467

6. Precursor concentration-dependent structural, optical and electrical properties of titanium dioxide nanostructures

A Majeed, MN Ahmed, SRA Raza, A Jalil, AA Khan, A Ahmed

Materials Chemistry and Physics 304, 127786

7. Ab-initio characterization of iron-embedded nitrogen-doped graphene as a toxic gas sensor

U Nosheen, A Jalil, SZ Ilyas, S Ahmed, A Illahi, MA Rafiq

Journal of Computational Electronics 22 (1), 116-127

8. Activity competition of catalysts and supports materials on the growth of carbon nanotubes with ZrO₂/Fe catalyst

L Yang, J Abdul, Y Shu, Y Yin, W Jia, T Jiang

Applied Surface Science 637, 15 November 2023, 157889

9. Modulating oxygen vacancy concentration for selective growth of semiconducting single-walled carbon nanotubes with narrow diameters
Tingkai, A.Jalil L.Yang ,Tingkai zhao
Journal of Material Science & Technology
(<https://doi.org/10.1016/j.jmst.2023.04.016>)
10. Free Carrier-mediated Ferromagnetism in Non-magnetic ions (Bi-Li) codoped ZnO Nanowires
Phys. Chem. Chem. Phys., 2023,25, 14206-14218
11. Stable Two Dimensional Na Decorated BeN4: A Potential Candidate for Hydrogen Storage
Journal of Computational Electronics
12. Gas Sensing Properties of Black Phosphorene Like InP3 Monolayer: A FirstPrinciples Study
Journal of Electronic Materials (<https://doi.org/10.1007/s10825-023-02084-y>)
13. Effect of Strain on Electronic Properties of Tri-layer MoS2/h-BN/Graphene van der waals Hetrostructures
Journal of Physics & Chemistry of Solids (Under review)
14. Li decorated graphene like MgN4 monolayer for hydrogen storage: A first-principles approach
Applied Surface Science(Under review)
15. Electromagnetic wave absorption property of crosslinked holey Fe/FeO/Fe2O3/RGO nanocomposite
Y Shu, G Feng, A Jalil, X Li, L Yang, Y Li, W Jia, F Luo
Journal of Colloid And Interface Science(Under review)

2022

1. Prediction of atomically thin two-dimensional single monolayer SnGe with high carrier mobility: a DFT study
H Mufti, **A Jalil***, SZ Ilyas, S Ahmed, A Hassan, T Zhao
New Journal of Chemistry 46 (11), 5368-5373, **2022**
2. First-Principles Insight into a B4C3 Monolayer as a Promising Biosensor for Exhaled Breath Analysis
Uzma Nosheen, **A Jalil***, Syed Zafar Ilyasa, Ahsan Illahi, Sayed Ali Khan, Ather Hassan, **Journal of Electronic Materials**,
3. Ab-Initio Characterization Iron Embedded Nitrogen Doped Graphene as a Toxic Gas Sensor
Uzma Nosheena, **A Jalil***, Syed Zafar Ilyas, Sarfraz Ahmed, Ahsan Illahi, Muhammad Aftab Rafiq, Zhao Tingkai, **Journal of Computational Electronics, Under Review...**
4. Fast and Self-Powered Photodetector of ZnO Nanowires and ZnSe/ZnSeO 3 based Heterojunction in Visible and NIR Region
Zamir-ul-Hassan*, Syeda Farzana Batool* , Syed Raza Ali Raza* , **A Jalil** , Asif Majeed , Hüseyin Kaan Kaplan , Sertan Kemal Akay , Raja Azhar Saeed Khan , Mohsin Rafique, Ayaz Arif Khan, **ACS Applied Materials & Interfaces, Under**

Review..

5. [Structural development and luminescent enhancement of CaAlSiN₃: Eu²⁺ phosphor via replacing Al³⁺ by Ga³⁺](#)
NZ Khan, SA Khan, **A Jalil**, F Wang, I Mehmood, MT Abbas, L Ali, ...
Journal of Alloys and Compounds 897, 162485,1,2022
6. [Cu ions irradiation-induced defects in graphene and their effects on optical properties](#)
Jahanzaib, **A Jalil**, SO Aisida, Z Tingkai, CF Dee, M Sorokin, I Ahmad, ...
Radiation Physics and Chemistry 193, 110008, 2022
7. [COVID-19 persuaded lockdown impact on local environmental restoration in Pakistan](#)
SZ Ilyas, A Hassan, SM Hussain, **A Jalil**, Y Baqir, S Agathopoulos
Environmental Monitoring and Assessment 194 (4), 1-9,2022
8. [Evaluation of Radio Refractivity in the Troposphere Over the Big Cities of Pakistan](#)
Syed Zafar Ilyas, Ather Hassan, Nadia Bibi, Hareem Mufti,**A Jalil**,
Journal of Geovisualization and Spatial Analysis 6,1-2022

2021

1. [2D CoGeSe₃ monolayer as a visible-light photocatalyst with high carrier mobility: Theoretical prediction](#)
A Jalil, SZ Ilyas, S Agathopoulos, A Qureshi, I Ahmed, T Zhao
Applied Surface Science 565, 150588
2. [DFT Study of Lead-Free Mixed-Halide Materials Cs₂X₂Y₂ \(X, Y = F, Cl, Br, I\) for Optoelectronic Applications](#)
H Ahmed, SZ Ilyas, A Jalil, S Agathopoulos, A Dahshan
Journal of Electronic Materials 50, 5647-5655
3. [Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals \(NCs\)](#)
4. [SA Khan, C Li, A Jalil, X Xin, M Rauf, J Ahmed, MAM Khan, B Dong, J Zhu, ...](#)
Chemical Engineering Journal 420, 127603
5. [Synthesis, structure and photoluminescence properties of Ca₂YTaO₆: Bi³⁺/Eu³⁺ double perovskite white light emitting phosphors](#)
NZ Khan, SA Khan, L Zhan, A Jalil, J Ahmed, MAM Khan, MT Abbas, ...
Journal of Alloys and Compounds 868, 159257
6. [C ions irradiation induced defects analysis and effects on optical properties of TiO₂ Nanoparticles](#)
A Farooq, SO Aisida, A Jalil, CF Dee, PC Ooi, M Sorokin, N Jabeen, ...
Journal of Alloys and Compounds 863, 158635
7. [Ab-initio characterization of B₄C₃ monolayer as a toxic gases sensing material](#)
S Ahmed, A Jalil, SZ Ilyas, A Hassan, A Ilahi, I Ahmed, M Khan, Q Khan
Applied Surface Science 544, 148877
8. [Ab-initio study of molybdenum carbide \(Mo₂C\) as an adsorption-based filter](#)
A Hassan, SZ Ilyas, S Ahmed, F Niaz, A Jalil, Q Khan
Physics Letters A 392, 127119

9. [Evaluation of adverse effects of particulate matter on human life](#)
A Hassan, SZ Ilyas, S Agathopoulos, SM Hussain, A Jalil, S Ahmed, ...
Heliyon 7 (2)
10. [Optoelectronic and solar cell applications of ZnO nanostructures](#)
R Zahoor, A Jalil, SZ Ilyas, S Ahmed, A Hassan
Results in Surfaces and Interfaces 2, 100003
11. [A new 2D Si₃X \(X= S, O\) direct band gap semiconductor with anisotropic carrier mobility](#)
A Jalil, SZ Ilyas, S Ahmed, A Hassan, D Li, K Musselman, Q Khan
Surface Science 704, 121736
12. [Photocatalytic degradation of methylene blue using polyaniline-based silver-doped zinc sulfide \(PANI-Ag/ZnS\) composites"](#)
S Mazhar, UY Qazi, N Nadeem, PD Rahat Javaid, M Zahid, A Jalil, F Khan, ...
Environmental Science and Pollution 11
13. [Monetization of the environmental damage caused by fossil fuels](#)
AJZU Ather Hassan, Syed Zafar Ilyas
Environmental Science and Pollution Research
14. [Ligand Exchange Reaction in \[Co₄O₄\]-Cobalt Cubane: a Versatile Strategy Towards the Preparation of Cobalt Cubane-based Functional Small Molecules and Polymeric Materials](#)
ZT Muhammad Waqas Ishaq, Raziq Nawaz, Lianwei Li, Abdul Jalil, Muhammad Ali Hashmi
Journal of Molecular Structure

2020

1. [New physical insight into crystal structure, luminescence and optical properties of YPO₄: Dy³⁺/Eu³⁺/Tb³⁺ single-phase white-light-emitting phosphors](#)
SA Khan, A Jalil, QU Khan, RM Irfan, I Mehmood, K Khan, M Kiani, ...
Journal of Alloys and Compounds 817, 152687
2. [A phosphorene-like InP₃ monolayer: structure, stability, and catalytic properties toward the hydrogen evolution reaction](#)
A Jalil, Z Zhuo, Z Sun, F Wu, C Wang, X Wu
Journal of Materials Chemistry A 8 (3), 1307-1314

2019

1. [Temperature dependent charge conduction and relaxation mechanism study of nano-structure WO₃ by impedance spectroscopy](#)
AA Khan, MN Khan, M Iqbal, A Majeed, A Jalil, S Mukhtar, M Javed
Materials Research Express 6 (12), 1250a5
2. [New physical insight in structural and electronic properties of InSb nano-sheet being rolled up into single-wall nanotubes](#)
A Jalil, S Agathopoulos, NZ Khan, SA Khan, M Kiani, K Khan, L Zhu
Applied Surface Science 487, 550-557
3. [NiCoFe oxide amorphous nanoheterostructures for oxygen evolution reaction](#)
MAZG Sial, S Baskaran, A Jalil, SH Talib, H Lin, Y Yao, Q Zhang, H Qian, ...
International Journal of Hydrogen Energy 44 (41), 22991-23001
4. [Facile synthesis of Gd and Sn co-doped BiFeO₃ supported on nitrogen](#)

doped graphene for enhanced photocatalytic activity

M Kiani, AB Kiani, SA Khan, S ur Rehmana, QU Khan, I Mahmood, ...

Journal of Physics and Chemistry of Solids 130, 222-229

2018

2018

1. Refining Defect States in W18O49 by Mo Doping: A Strategy for Tuning N2 Activation towards Solar-Driven Nitrogen Fixation
N Zhang, A Jalil, D Wu, S Chen, Y Liu, C Gao, W Ye, Z Qi, H Ju, C Wang, ...
Journal of the American Chemical Society 140 (30), 9434-9443
2. Magnetic and electronic properties of single-walled Mo2C nanotube: a first-principles study
A Jalil, Z Sun, D Wang, X Wu
Journal of Physics: Condensed Matter 30 (15), 155305
3. A new phase of the two-dimensional ReS2 sheet with tunable magnetism
Z Sun, H Lv, Z Zhuo, A Jalil, W Zhang, X Wu, J Yang
Journal of Materials Chemistry C 6 (5), 1248-1254

Speaker and Presenter in International Conferences and Seminars

1. **Invited Speaker** in International Conference on Material Science and Nanotechnology 2023 Nanomaterials modeling and simulations. GC University Faislabad.
2. **Invited Speaker** in 3rd international symposium on Graphene Advanced Nanomaterials & Defects Engineering (GANDE) in Xian China, July-21,2023.
3. **Invited speaker** in The 4th International Conference on Graphene and Novel Nanomaterials (GNN 2022)September 16-19, 2022 | Shenzhen, China
4. **Distinguished Speaker** in the International workshop on 2D materials and Quantum Effect, PIEAS. **Pakistan**, March-2020
5. **Distinguished Speaker** Computational Screening of Two-Dimensional Materials For Different Applications, 2nd Conference on Physics May 17-18, 2022, Air University, **Pakistan**.
6. **Invited Speaker** in 2nd international symposium on Graphene Advanced Nanomaterials & Defects Engineering (GANDE) in Xian **China**, 2022.
7. **Distinguished Speaker** in the International workshop on 2D materials and Quantum Effect, PIEAS. **Pakistan**, July-2022
8. **Presenter** in 22 International conference of photochemical conversion and Solar Energy, **China** ,Magnetic and electronic properties of single-walled Mo2C nanotube: A First-Principles study,
6. **Presenter** in 3rd International Conference on Graphene and Novel Nanomaterials (GNN 2021) in **China**
7. **Presenter** in Prediction of Atomically Thin Two-Dimensional Single Monolayer with High Carrier Mobility : A DFT Study, University of **Nigeria**
8. Extraction of oil and alternative petroleum products from raw materials using microwaves. **Presenter** 1st International Conference on Energy & Environment, **Pakistan**
9. Study of Properties of Planar Surfaces Using Electromagnetic Wave. **Presenter** 1st National Conference on Modeling & Simulations, **Pakistan**

10. Study of Dielectric Resonator Nanostructures at Visible Frequency, **Presenter** 2nd National Conference on Modeling & Simulations, **Pakistan**
11. Modeling of Heat dissipation in Power Transistor. Proceeding Second International Conference on Modeling & Simulation. **Presenter** 2nd National Conference on Modeling & Simulations, **Pakistan**
12. Study of Scattering Width of Nihility Cylinder Placed in Topological Insulator Space. **Presenter**, 3rd National Conference on Modeling & Simulations. **Pakistan**

Certificate Courses

1. The five-week Introduction to Technology-Enabled Learning (TELMOOC5) starts on April 5, 2020, The Commonwealth of Learning in collaboration with Athabasca University Canada
2. The four-week Blended Learning Practice (BLPMOOC2) starts on April 19, 2020, The Commonwealth of Learning in collaboration with Athabasca University Canada
3. Switch Mode Power Supply.
4. IC Nanometer Designing.
5. Switch mode Power Supply.
6. Research proposal Training Workshop.
7. First Training Workshop on Microcontrollers for Faculty Members scientists & Engineers.
8. Second Training Workshop on Microcontrollers for Faculty Members scientists & Engineers.
9. First Training Workshop on Physics Lab Equipment.
10. Second Training Workshop on Physics Lab Equipment.
11. One Day Basic Training Course on Solar PV off grade System.
12. Training Workshop on Public Procurement.

Organizer in Training Workshops ,Conference & Seminar

- 1st International Conference on Energy and Environment, Department of Physics, Allama Iqbal Open University, Islamabad, Oct 10-12, 2011
- Microcontroller Training Workshop for Faculty Members, Scientists and Engineers Department of Physics, Allama Iqbal Open University, Islamabad, November 03-09, 2012
- 1st National Conference on Physics and Emerging Sciences, Department of Physics, Allama Iqbal Open University, Islamabad, April 06-07, 2013
- Faculty Development and Training Workshop on Physics Laboratory Equipment, Department of Physics, Allama Iqbal Open University, Islamabad, May 10-16, 2013
- 2nd Faculty Development and Training Workshop on Physics Laboratory Equipment, Department of Physics, Allama Iqbal Open University, Islamabad, August 03-09, 2014
- Training Workshop on EndNote, Department of Physics, Allama Iqbal Open University, Islamabad, December 09, 2014, Science Block, Allama Iqbal Open University, H-8, Islamabad
- Training Workshop on Research Methodologies and Paper Writing, Department

of Physics, Allama Iqbal Open University, Islamabad, March 16-18, 2015, Academic Complex, Allama Iqbal Open University, H-8, Islamabad

- Three Days Training Workshop on XRD, FT-IR & LUMOS FT-IR Microscope, Organized by Department of Physics, AIOU, Islamabad, December 7-9, 2018 Department of Physics, Allama Iqbal Open University, H-8, Islamabad.
- One Day Seminar on Policy Dialogue and Current Issues in Migration, Organized by International Organization of Migration, UNHCR Pakistan & Department of Physics, AIOU on January 23, 2019.
- One Day International Seminar on Material Sciences, Organized by Department of Physics AIOU, April 04, 2019
- 8th National Conference on Physics & Emerging Sciences, Organized by Department of Physics AIOU, April 04, 2019.
- Quiz & Debate Competition regarding Independence Day, Organized by Department of Physics AIOU, August 20, 2019.
- One Day Seminar on Field Emission Electron Microscope, Organized by Department of Physics AIOU, September 18, 2019.
- One Day International Training on Ion Beam Applications, Organized by Department of Physics AIOU, October 11, 2019.
- Training on LMS & AAGHI portal, organized by Department of QEC AIOU, November 04, 2019
- One Day Seminar on Policy Dialogue and Current Issues in Migration, Organized by International Organization of Migration, UNHCR Pakistan & Department of Physics, AIOU on January 23, 2019.
- 2nd International Conference on Nano-Materials Modeling & Simulation, Organized by Department of Physics AIOU, February 23-24, 2019.
- One Day International Seminar on Hydrogen Fuel Cell Technology, Organized by Department of Physics AIOU, March 18, 2019.
- One Day International Seminar on Material Sciences, Organized by Department of Physics AIOU, April 04, 2019.
- One Day Seminar on Scientific Facts & Surah e Rehman Therapy, Organized by Department of Physics AIOU & Mast Mast Healers Pakistan, January 22, 2019.
- 8th National Conference on Physics & Emerging Sciences, Organized by Department of Physics AIOU, April 04, 2019.
- Quiz & Debate Competition regarding Independence Day, Organized by Department of Physics AIOU, August 20, 2019
- One Day Seminar on Field Emission Electron Microscope, Organized by Department of Physics AIOU, September 18, 2019.
- One Day International Training on Ion Beam Applications, Organized by Department of Physics AIOU, October 11, 2019.

References

- **Supervisor of PhD Research Project**

Name: Professor **Xiaojun Wu**

Institution: Department of Materials Sciences and Engineering, School of Chemistry and Materials Sciences

Email: xjwu@ustc.edu.cn

Phone: +86-551-63607915

Teacher in PhD

- Name: Professor **REN Xinguo**
Institution: Key Laboratory of Quantum Information
Mailing Address : Key Laboratory of Quantum Information, School of Physical Sciences, 96 Jinzhai Rd, Hefei, Anhui, PR China, Postal Code : 230026
Phone : 86- 551-63600830

Supervisor of Postdoc Research Project

- Dr. Ting-kai ZHAO
Director, NPU-NCP Joint International Research Center on Advanced Nanomaterials and Defects Engineering,
Vice-Director, Shaanxi Engineering Laboratory for Graphene New Carbon Materials & Application, School of Materials Science & Engineering, Northwestern Polytechnical University ,Xi'an 710072, China
E-mail: ztk-xjtu@163.com (OR) ztk@nwpu.edu.cn

