

Akbar Ali Qureshi, PhD

Department of Mechanical Engineering, Bahauddin Zakariya University, Multan, Pakistan

Innovative researcher and educator with a PhD in Nanoscience & Engineering, specializing in perovskite solar cells, charge transport materials, and advanced nanomaterials for renewable energy technologies. Possesses strong expertise in device fabrication, interface engineering, and materials optimization, supported by an extensive publication record and multiple funded research projects. Committed to advancing high-impact scientific research, strengthening renewable-energy technologies, mentoring emerging researchers, and contributing to technological innovation in next-generation photovoltaic systems.

Research Interests

Perovskite solar cells; tandem perovskite-silicon photovoltaics; dye-sensitized solar cells; optoelectronic and photovoltaic devices; nanomaterials engineering; metal-oxide charge-transport layers; interface and surface engineering; solution-processed metal-oxide films; thin-film device fabrication; materials synthesis and characterization; and advanced renewable-energy conversion systems.

Professional Profiles

Personal Web: https://www.bzu.edu.pk/v2_department.php?cid=68
Web of Science: <https://www.webofscience.com/wos/author/record/AAA-9349-2022>
ORCID <https://orcid.org/0000-0003-1178-7286>
Google Scholar: <https://scholar.google.com/citations?user=Kzd1dy8AAAAJ&hl=en&authuser=1>

Professional Experience

10.2023 – present **Assistant Professor (OPS)**, Department of Mechanical Engineering, Bahauddin Zakariya University, Pakistan
Manager (Research Development), Office of Research, Innovation & Commercialization (ORIC), Bahauddin Zakariya University, Multan, Pakistan
12.2025 – present
05.2013 – 09.2023 **Lecturer**, Department of Mechanical Engineering, Bahauddin Zakariya University, Pakistan
09.2011 – 04.2013 **Mechanical Engineer**, Mahmood Power Generation Ltd, Pakistan

International Mobility as a Visiting Researcher

08.2021 – 06.2022 **Researcher**, Hybrid Nanostructures Group (HNS), University of Konstanz, Konstanz, Germany

Academic Qualifications

2020 – 2023 **Doctor of Philosophy (Nanoscience and Engineering)** — *CGPA 3.67*
National University of Sciences and Technology (NUST), Pakistan
Thesis: “*Synthesis and Fabrication of Low-Cost, Metal Oxides-Based Charge*”

Engr. Dr. Akbar Ali Qureshi – CV

Transport Materials for Efficient and Stable Perovskite Solar Cells

Supervisors: Dr. Sofia Javed (Main), Prof. Dr. Lukas Schmidt-Mende (Co-Supervisor)

Funding / Sponsorship:

- Higher Education Commission (HEC), Islamabad, Pakistan — *Fully Funded Scholarship*
- Bahauddin Zakariya University (BZU), Multan, Pakistan — *Study Leave Award*

2016 – 2018 **Master of Science (Mechanical Engineering)** — *CGPA 3.34*

COMSATS University Islamabad (CUI), Pakistan

Thesis: “*Enhanced Performance of Plasmonic Dye-Sensitized Solar Cells Using Ag/TiO₂ Nanoparticles*”

Supervisor: Dr. Salman Mustafa

Scholarship / Financial Support:

- Awarded *M.Sc. Scholarship Package* by Bahauddin Zakariya University (BZU), Multan

2007 – 2011 **Bachelor of Science (Mechanical Engineering)** — *CGPA 3.11*

Bahauddin Zakariya University (BZU), Pakistan

Thesis: “*Study of IC Engine & Development of a Prototype Instructional Model of IC Engine*”

Supervisor: Prof. Dr. Muhammad Tahir Hassan

Skills

Laboratory & Research Expertise

Skilled in solution processing, sol–gel and hydrothermal synthesis, and low-temperature fabrication of metal-oxide nanostructures and hybrid composites. Proficient in thin-film deposition, perovskite and dye-sensitized solar cell fabrication, and interfacial layer engineering. Experienced in advanced characterization techniques including XRD, FE-SEM, AFM, UV-Vis, PL, TGA, and photovoltaic device testing (J-V, MPP, EQE, stability). Competent in laboratory management, reproducibility studies, student supervision, and multidisciplinary energy materials research.

Software & Computational Tools

Proficient in OriginPro, MS Office, MATLAB, XPert HighScore, ImageJ, Gwyddion, and other scientific data-analysis and visualization tools.

Editorship Role

Section Editor, *BZU Journal of Research Science (JORS)* — **July 2025 – Present**

Editorial Board: <https://jorscience.com/index.php/JRS/EditorialBoard>

Responsible for managing peer review, evaluating submitted manuscripts, and contributing to editorial decisions within the journal’s engineering and applied science sections.

Peer-Review Service (Selected Journals)

Served as reviewer for more than 25 international peer-reviewed journals in photovoltaics, nanomaterials, materials science, and energy research, including:

ACS Publications

- *ACS Applied Materials & Interfaces*

Engr. Dr. Akbar Ali Qureshi – CV

- *ACS Applied Engineering Materials*
- *ACS Applied Energy Materials*
- *ACS Omega*

Wiley

- *Small Methods*
- *Energy Science & Engineering*
- *ChemPlusChem*
- *ChemSusChem*
- *ChemistrySelect*
- *Chemistry – An Asian Journal*
- *International Journal of Energy Research*
- *Journal of nanotechnology*

Springer Journals

- *Scientific Reports*
- *Journal of Polymers and the Environment*
- *Journal of Inorganic & Organometallic Polymers*
- *Optical & Quantum Electronics*
- *Plasmonics*
- *Silicon*
- *Discover Chemistry*

Elsevier

- *Surfaces and Interfaces*

Other International Journals

- *Materials Technology Reports*
- *Nanotechnology Reviews*
- *Molecular Crystals and Liquid Crystals*
- *International Journal of Modern Physics B*
- *International Journal of Nanoscience and Nanotechnology*
- *Cogent Engineering*

Research Supervision

Master's Thesis Supervision

Primary Supervisions

- Metal oxide–based hole transport materials for efficient and stable perovskite solar cells — *Dilawar Manzoor, 2022–24, BZU, Multan*
- α -Fe₂O₃/SnO₂ bilayer electron transport material for efficient and stable perovskite solar cells — *Aalif Sajjad, 2022–24, BZU, Multan*

Co-Supervisions

- Strategic design of graphitized plasmonic Nb₂O₅ nanocomposite for high-efficiency plasmonic dye-sensitized solar cells — *Hafiz Abdullah Bin Hameed, 2018–22, COMSATS University Islamabad*
- Fabrication of efficient and stable perovskite solar cells using natural charge-transport materials — *Hafiz Muhammad Noman, 2021–23, BZU, Multan*

Undergraduate Supervision

- Supervised **36** Final-Year Mechanical Engineering Projects

Selected Research Projects (in reverse chronological order)

- **Advancing Perovskite Tandem Solar Cells: Towards Efficiency and Stability**
ORIC Research Grant (*Principal Investigator, 0.5 M PKR*) — 2024–2025
- **Low-temperature processed natural metal-oxide charge transport materials for stable perovskite solar cells**
ORIC Research Grant (*Principal Investigator, 0.15 M PKR*) — 2022–2023
- **Synergistic effects of ternary Ag–TiO₂ nanocomposites for plasmonic dye-sensitized solar cells**
ORIC Research Grant (*Principal Investigator, 0.2 M PKR*) — 2019–2020

Teaching Experience

Postgraduate / Undergraduate Courses Taught

- Introduction to Nanoscience and Nanotechnology
- Engineering Materials
- Advanced Powerplants
- Advanced Thermodynamics
- Heat and Mass Transfer
- Refrigeration and Air Conditioning
- Thermodynamics-II

Academic Services (Highlights)

- Postgraduate Director Student Affairs, MED, BZU
- MS/BS Research Project Coordinator, MED, BZU
- Convener, Curriculum Review Committee, MED, BZU
- Member, House Allotment Committee, BZU
- Executive Member, Academic Staff Association, BZU
- Semester In-Charge (MED), BZU

Teaching-Related Training & Professional Development

- Three-Day Level-I Teaching Session for BZU Faculty Cohort-III — *November 2025*
- Faculty Teaching Program, ORIC BZU — *April 2018*
- Dynamic Teaching Skills Training, ORIC BZU — *March 2018*

Awards & Recognitions

- Winner of “*HEC Scholarship*” in Faculty Development Program for Pakistani Universities by the Higher Education Commission, Pakistan (2020)
- Provisionally selected for “*HEC Scholarship for Overseas Education*” by the Higher Education Commission, Pakistan (2020)
- Winner of **Foreign research placement at the University of Konstanz, Germany**, under the same national funding initiative, Faculty Development Program (FDP) Scholarship awarded by the Higher Education Commission (HEC) of Pakistan (2021-2022).

Professional Memberships

- Pakistan Engineering Council (PEC), Pakistan — *MECH/26953*
- American Chemical Society (ACS) — Membership No. *33455623*
- Energy Institute (EI) — Membership No. *0089842*
- International Association of Engineers (IAENG) — Membership No. *544642*
- IEEE Nanotechnology Council (IEEE-NTC) — Membership No. *101751908*

Certifications & Professional Training

Solar Energy International (SEI), USA

- RE100: Introduction to Renewable Energy

Coursera – University at Buffalo (SUNY), USA

- Solar Energy Systems Overview
- Solar Energy and Electrical System Design

Web of Science Academy (Clarivate)

- An Introduction to Peer Review

Elsevier Researcher Academy

Elsevier Researcher Academy – Certified Peer Reviewer Program

- Introduction to the Certified Peer Reviewer Course
- What to Expect from the Certified Peer Reviewer Course
- What Is Peer Review? Why Peer Review?
- Models of Peer Review
- The Typical Peer Review Process
- How to Get Involved as a Peer Reviewer
- How to Write a Helpful Peer Review Report
- How to Peer Review a Review Article
- Reviewer Comments to Editors and Decision Recommendations
- I Just Got a Review Invite—What's Next?
- What Next? (Becoming an Active Certified Reviewer)

Elsevier Researcher Academy – Research & Funding Skills

- How to Secure Funding — ECR Edition
- Tips for Writing Grant Applications
- Unlocking Grant Success with Funding Institutions
- Funding Hacks for Early-Career Researchers
- How Do Editors Look at Your Paper?
- How to Respond to Reviewers' Comments
- Going Through the Review Process

Web of Science Academy (Clarivate)

- An Introduction to Peer Review

Research Publications

As of Novemebr 2025,

- Google Scholar: H-index - 13, Citations - 650
- Web of Science: H-index -12, Citations - 504

2025

1. A. Ali, A. S. S. Bilal, N. Banik, M. Shahid, H. Abdulla, B. Madaminov, B. Madaminov, **A. A. Qureshi***, M. Adnan; Interfacial Modification of Hybrid Lead Halide Perovskite Solar Cells Using Fe₂O₃/WO₃ Electron Transport Bilayer for Enhanced Efficiency and Stability, Materials Research Bulletin 2025 Pages 113962 (**IF= 5.7**) (* **Corresponding Author**)
2. M. U. A. Khan, A. S. S. Bilal, **A. A. Qureshi***, X. I. Aniyozovich, M. G. N., B. Madaminov, et al., Interfacial Engineering of Triple Cation Perovskite Solar Cells Using Graphitic Carbon Nitride-Modified Hematite Electron Transport Layer for Enhanced Photovoltaic Performance, International Journal of Energy Research 2025 Vol. 2025 Issue 1 Pages 5571442 (**IF= 4.2**) (* **Corresponding Author**)
3. M. U. A. Khan, A. S. S. Bilal, E. S. Feroz, R. Roopashree, A. Kashyap, M. A. Khan, **A. A. Qureshi***, Optimization of reduced graphene oxide-hematite nanocomposite-

- based electron transport layer for efficient and stable perovskite solar cells, *Next Materials* 2025 Vol. 9 Pages 101100 (* **Corresponding Author**)
4. M. Rizwan, H. M. A. Javed, A. A. Qureshi, S. Hussain, M. Salman Mustafa, M. Yasar Javaid, et al., Design and characterizations of copper-zirconium-titanium dioxide nanocubes for enhanced performance in plasmonic dye-sensitized solar cells, *Journal of Power Sources* 2025 Vol. 652 Pages 237533 (**IF= 7.9**) (* **Corresponding Author**)
 5. A.S.S. Bilal, M.U.A. Khan, N. Banik, A. Hayitov, R. Mm, S. Ray, K. Ghai, U. Singh, E. Khudoynazarov, M. Aleem, **A.A. Qureshi***, Dual-doped ZnO nanocomposites for superior photocatalytic hydrogen generation, *Journal of Materials Science: Materials in Engineering* 20(1) (2025) 104. (**IF= 3.0**) (* **Corresponding Author**)
 6. M.A. Jan, **A.A. Qureshi***, M.U. Ahsan, H.M. Noman, M. Adnan, A. Khalid, Synergistic Effects of NiO, Fe₃O₄, and WO₃ Bilayers With Spiro-OMeTAD in CsFAMA Perovskite Solar Cells, *Advances in Materials Science and Engineering* 2025 (2025) 3361562. (**IF= 2.27**) (* **Corresponding Author**)
 7. M.A. Jan, H.M. Noman, **A.A. Qureshi***, F. Yang, Interfacial optimization of hematite electron transport layer for enhanced charge transport in perovskite solar cells, *Optical and Quantum Electronics* 57(2) (2025) 146. (**IF= 3.3**) (* **Corresponding Author**)
 8. R. Fatima, G. Rodríguez-Ortiz, M. Waseem, F. Mahmood, M.A. Khan, A.S.S. Bilal, **A.A. Qureshi***, U. Bilal, T.L. Batool, ZnO/ α -Fe₂O₃ nanocomposites as efficient photocatalysts for sustainable hydrogen generation, *Next Materials* 6 (2025) 100486. (* **Corresponding Author**)
 9. Integrated Thermal-Structural Analysis and Material Optimization of a Compression Ignition Engine Exhaust Valve Using Finite Element Simulation; M. S. Tauseef, A. Qaisar, R. M. R. Ashraf, M. H. Saeed, M. Saad, T. Asif, M. U. A. Khan, A. S. S. Bilal, S. A. S. Bukhari, **A. A. Qureshi**; *Journal of Research (Science)* 2025 Vol. 35 Issue 1 Pages 1-16
- 2024**
10. H.M. Noman, M.T. Hasan, M.A. Jan, M.U.A. Khan, **A.A. Qureshi***, Recent Developments in Low- Temperature Solution-Processed Metal Oxide Electron Transport Layers for Perovskite Solar Cells, *NUST Journal of Engineering Sciences* 17(2) (2024) 56-75 (* **Corresponding Author**)
 11. H.M. Noman, I. Nisa, M.M. Bilal, M.A. Jan, A.S.S. Bilal, I. Hussain, N. Bano, **A.A. Qureshi***, M. Adnan, Iron oxide-based charge transport layers for efficient and stable perovskite solar cells, *Materials Research Express* 11(12) (2024) 126304 (**IF= 1.8**) (* **Corresponding Author**)
 12. H. Ayyub, M. Arslan, M. Jamshaid, **A.A. Qureshi**, A. Ahmed, H.H. Masjuki, M.A. Kalam, F.B. Ahmad, H.L. Ali, M.U.A. Khan, M.U. Khallidoon, Esterification and Transesterification Optimization Processes of Nonedible (Castor and Neem) Oils for the Production of Biodiesel, *Fuels* 5(4) (2024) 782-802. (**IF= 2.7**) (**Co-Author**)
 13. M.A. Jan, **A.A. Qureshi***, H. M. Noman, F. Yang, α -Fe₂O₃/SnO₂ electron transport bilayer for efficient and stable perovskite solar cells. *Journal of Materials Science: Materials in Electronics*, 2024. **35**(27): p. 1784. (**IF= 2.8**) (* **Corresponding Author**)

2023

14. **A.A. Qureshi**, E.R. Schütz, S. Javed, L. Schmidt-Mende, A. Fakharuddin, Fe₃O₄ based hole transport bilayer for efficient and stable perovskite solar cells, *Energy Advances* (2023) (IF= 3.2) (First Author)
15. U. Ali, S. Javed, **A.A. Qureshi**, M.A. Akram, Interfacial Engineering of a PCBM/AZO Electron Transport Bilayer for Efficient and Stable Inverted Perovskite Solar Cells, *ChemNanoMat* 9 (2023) (IF= 2.6) (Co-Author)
16. U. Ali, **A.A. Qureshi**, S. Javed, G.u. Rehman, M.A. Akram, Graphene oxide incorporation in Ag- doped ZnO nanocomposite as efficient electron extraction material for planar perovskite solar cells, *Results in Optics* 12 (2023) 100486 (Co-Author)
17. **A.A. Qureshi**, S. Javed, M. Adnan, M. Jamshaid, M. Aftab Akram, U. Ali, Strategic Optimization of Annealing Parameters for Efficient and Low Hysteresis Triple Cation Perovskite Solar Cell, *ChemistrySelect* 8 (2023) e202300342 (IF= 1.9) (First Author)
18. **A.A. Qureshi**, S. Javed, A. Fakharuddin, M.A. Akram, L. Schmidt-Mende, Low-temperature processed natural hematite as an electron extraction layer for efficient and stable perovskite solar cells, *Surfaces and Interfaces* (2023) 103003 (IF= 5.7) (First Author)
19. **A.A. Qureshi**, S. Javed, M.A. Akram, L. Schmidt-Mende, A. Fakharuddin, Solvent-Assisted Crystallization of an α -Fe₂O₃ Electron Transport Layer for Efficient and Stable Perovskite Solar Cells Featuring Negligible Hysteresis, *ACS Omega* 8 (2023) 18106 (IF= 3.7) (First Author)

2022

20. M. Shahid, H.M.A. Javed, M.I. Ahmad, **A.A. Qureshi**, M.I. Khan, M.A. Alnuwaiser, A. Ahmed, M.A. Khan, E.S.M. Tag-ElDin, A. Shahid, A. Rafique, A Brief Assessment on Recent Developments in Efficient Electrocatalytic Nitrogen Reduction with 2D Non-Metallic Nanomaterials, *Nanomaterials* 12 (2022) 3413 (IF= 4.4) (Co-Author)
21. K. Fatima, M.I. Haider, A. Bashir, S. Qamar, **A.A. Qureshi**, Z. Akhter, M. Sultan, Surface modification of CsPbI₂Br for improved performance of inorganic perovskite solar cells, *Physica E: Low-dimensional Systems and Nanostructures* 142 (2022) 115265 (IF= 2.9) (Co-Author)
22. **A.A. Qureshi**, S. Javed, H.M.A. Javed, M. Jamshaid, U. Ali, M.A. Akram, Systematic Investigation of Structural, Morphological, Thermal, Optoelectronic, and Magnetic Properties of High-Purity Hematite/Magnetite Nanoparticles for Optoelectronics, *Nanomaterials* 12 (2022) 1635 (IF=4.4) (First Author)
23. H.M.A. Javed, M. Sarfaraz, A. Mahmood, M.Z. Nisar, **A.A. Qureshi**, M.A. Khan, P. Zhong, Y. Liao, Design and Development of a Solar Water Purification System with Graphene-Plasmonic Based Hybrid Nanocomposites: A Review, *Recent Patents on Nanotechnology* 16 (2022) 30 (IF= 2.0) (Co-Author)
24. H.M.A. Javed, M. Adnan, **A.A. Qureshi***, S. Javed, M. Adeel, M.A. Akram, M. Shahid, M. Irfan Ahmad, M. Afzaal, H.S.M. Abd-Rabboh, M. Arif, Morphological, structural, thermal and optical properties of Zn/Mg-doped TiO₂ nanostructures for optoelectronic applications, *Optics & Laser Technology* 146 (2022) 107566 (IF= 4.6) (* Corresponding Author)

25. M. Jamshaid, H.H. Masjuki, M.A. Kalam, N.W.M. Zulkifli, A. Arslan, **A.A. Qureshi**, Experimental investigation of performance, emissions, and tribological characteristics of B20 blend from cottonseed and palm oil biodiesels, *Energy* 239 (2022) 121894 (**IF=9.0**) (**Co-Author**)

2021

26. H.M.A. Javed, W. Que, M. Shahid, **A.A. Qureshi***, M. Afzaal, M.S. Mustafa, S. Hussain, A.S. Alsubaie, K.H. Mahmoud, Z.M. El-Bahy, L.B. Kong, Investigations of anodization parameters and TiCl₄ treatments on TiO₂ nanostructures for highly optimized dye-sensitized solar cells, *Surfaces and Interfaces* 27 (2021) 101578 (**IF=5.7**) (*** Corresponding Author**)
27. H.M.A. Javed, M. Sarfaraz, M.Z. Nisar, **A.A. Qureshi***, M.F. e Alam, W. Que, X. Yin, H.S.M. Abd- Rabboh, A. Shahid, M.I. Ahmad, S. Ullah, Plasmonic Dye-Sensitized Solar Cells: Fundamentals, Recent Developments, and Future Perspectives, *ChemistrySelect* 6 (2021) 9337 (**IF= 1.9**) (*** Corresponding Author**)
28. **A.A. Qureshi***, H.M.A. Javed, S. Javed, A. Bashir, M. Usman, A. Akram, M.I. Ahmad, U. Ali, M. Shahid, M. Rizwan, S.A. Raza, Incorporation of Zr-doped TiO₂ nanoparticles in electron transport layer for efficient planar perovskite solar cells, *Surfaces and Interfaces* 25 (2021) 101299 (**IF= 5.7**) (*** Corresponding/First Author**)
29. S. Amjad, A. Haider, R.M. Gul, M. Jamshaid, **A.A. Qureshi***, Impact of Riveting Parameters on Mechanical Properties of Aluminum Alloy (LY-12) Sealant Applied Lap Joint of an Aircraft, *NUST Journal of Engineering Sciences* 14 (2021) 29 (*** Corresponding Author**)
30. H.M. Asif Javed, **A.A. Qureshi***, R. Mehmood, M.I. Tahir, S. Javed, M. Sarfaraz, M.Y. Javaid, M. Awais, U. Ali, Hydrogen treated TiO₂ nanoparticles onto FTO glass as photoanode for dye- sensitized solar cells with remarkably enhanced performance, *Int. J. Hydrogen Energy* 46 (2021) 14311 (**IF= 8.1**) (*** Corresponding Author**)
31. H.M.A. Javed, M.I. Ahmad, W. Que, **A.A. Qureshi***, M. Sarfaraz, S. Hussain, M.Z. Iqbal, M. Zubair Nisar, M. Shahid, T.S. AlGarni, Encapsulation of TiO₂ nanotubes with Cs nanoparticles to enhance electron injection and thermal stability of perovskite solar cells, *Surfaces and Interfaces* 23 (2021) 101033 (**IF= 5.7**) (*** Corresponding Author**)
32. **A.A. Qureshi***, S. Javed, H.M.A. Javed, A. Akram, M.S. Mustafa, U. Ali, M.Z. Nisar, Facile formation of SnO₂-TiO₂ based photoanode and Fe₃O₄@rGO based counter electrode for efficient dye- sensitized solar cells, *Mater. Sci. Semicond. Process.* 123 (2021) 105545 (**IF= 4.2**) (*** Corresponding/First Author**)

2020

33. **A.A. Qureshi***, S. Javed, H.M. Asif Javed, A. Akram, M. Jamshaid, A. Shaheen, Strategic design of Cu/TiO₂-based photoanode and rGO-Fe₃O₄-based counter electrode for optimized plasmonic dye-sensitized solar cells, *Opt. Mater.* 109 (2020) 110267 (**IF= 3.8**) (*** Corresponding/First Author**)

34. H.M.A. Javed, M. Sarfaraz, M.S. Mustafa, W. Que, R. Ateeq ur, M. Awais, S. Hussain, **A.A. Qureshi***, M.Z. Iqbal, M.A. Khan, Efficient Cu/rGO/TiO₂ nanocomposite-based photoanode for highly- optimized plasmonic dye-sensitized solar cells, *Applied Nanoscience* 10 (2020) 2419 (**IF= 3.0**) (* **Corresponding Author**)

2019

35. H.M.A. Javed, **A.A. Qureshi**, M. Salman Mustafa, W. Que, M. Shabir Mahr, A. Shaheen, J. Iqbal, S. Saleem, M. Jamshaid, A. Mahmood, Advanced Ag/rGO/TiO₂ ternary nanocomposite based photoanode approaches to highly-efficient plasmonic dye-sensitized solar cells, *Opt. Commun.* 453 (2019) 124408 (**IF= 2.2**) (* **Co-Author**)

Participation in National/International Conferences and Workshops

1. Participated as an **Oral Presenter** in *Workshop on Advanced Materials for Energy Storage and Conversion Technologies (AMEST–2025)*, held on **28 October 2025** at SCME, NUST, Islamabad, Pakistan.
2. Participated as **Oral Presenter** in *19th International Symposium on Advanced Materials (ISAM–2025)*, held on **27–31 October 2025** at NCP, Islamabad, Pakistan.
3. Participated as **Oral Presenter (Virtual Participation)** in the *8th Madinah International Conference on Multidisciplinary Issues (ICMI–2020)*, held on **24–26 July 2020**, Kingdom of Saudi Arabia.
4. Participated as **Contributed Speaker** in *International Workshop on Nanomaterials for Energy Conversion, Emerging Photovoltaic and Optoelectronic Technologies (NEEPO–19)*, held on **7–9 October 2019** at NCP, Islamabad, Pakistan.
5. Participated as an **Oral Presenter** in the *International Conference on Emerging Materials and Processes (CEMP–2018)*, held at NUST, Islamabad, Pakistan.
6. Participated as **Oral Presenter** in *1st International Conference on Automotive Engineering (ICAE–2018)*, held on **5–6 December 2018** at SMME, NUST, Islamabad, Pakistan.
7. Participated as **Poster Presenter** in *International Conference on Nanoscience and Nanotechnology (ICONN–2018)*, held on **1–2 November 2018** at SCME, NUST, Islamabad, Pakistan.
8. Participated as **Poster Presenter** in *International Workshop on Energy Material and Nanotechnology (EMNT–2018)*, held on **15–16 August 2018** at COMSATS University, Abbottabad, Pakistan.
9. Participated as a **Participant** in *Technical Workshops organized by SKF and Abco Technical Pvt. Ltd.*, held in **2012** (post–B.S. Mechanical Engineering)
10. Participated as a **Participant** in the *Thermocon Conference (ASHRAE)*, held in **March 2011** at GIKI during the **8th semester** of B.S. Mechanical Engineering.

References

Dr Sofia Javed (Associate Professor)
School of Chemicals & Materials Engineering
National University of Sciences and Technology,

Prof. Dr. M. Tahir Hassan (Chairman)
Department of Mechanical Engineering
Bahauddin Zakariya University (BZU),

Engr. Dr. Akbar Ali Qureshi – CV

Islamabad, Pakistan

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Contact details



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