

Dr. Abdul Shakoor

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https://www.researchgate.net/profile/Dr_Abdul_Shakoor3

<https://scholar.google.com.pk/citations?user=6O9ZEh0AAAAJ&hl=en&authuser=1>

Key Attributes

A place where I can make strong contribution through my acquired skills and ambitious approach with continued development of personal and professional expertise.

Personal Profile

Extremely committed and enthusiastic person with a thorough knowledge of Advanced Materials and Composites systems. Capable of achieving the personal and organizational objectives. Methodical and organized with excellent verbal and written communication skills. Accomplished in producing technical reports. Keen to broaden experiences and confront challenges on both a personal and professional level, with an enthusiastic interest in travel. Highly presentable, ambitious and goal orientated.

Current Role

Associate Professor in Department of Mechanical Engineering at University of Engg.& Tech. Peshawar, KPK, Pakistan, 25120.

Taught Courses: Engineering Materials, Engineering Metallurgy, Composites Material, Applications and Selection of Materials, Production Automation, Quality Engineering, Industrial Engineering Management, Industrial Health & Safety.

Research Interests: Composite Materials, Materials Characterizations and development, Sustainable and Bio-Composites Processing, Soft Body armors systems

Education and Qualifications

2010-2013: School of Aeronautical, Automotive, Chemical and Materials Engineering, Loughborough University, UK

PhD in Materials Science & Engineering (Polymer Composites)

Thesis: Development of novel Bio-derived Polymer Composites Reinforced with Natural Fibres and Mineral Fillers.

2008-2009: Wolfson School of Mechanical and Manufacturing Engineering, Loughborough University, UK.

- 2005-2006:** **Master in Advanced Manufacturing Engineering and Management**
Thesis: Uses of laser cutting technology in bio-composites and its applications in textile sector.
School of Computing and Engineering, University of Huddersfield, UK.
- 2004:** **Master in Engineering Control Systems and Instrumentations.**
Thesis: Re-commissioning and Instrumentations of Multiphase flow rig used in food Industry
Leeds Business School, Leeds Metropolitan University, Leeds, UK.
(Sep – Dec) Post Graduate Certificate in Project Management Skills.
- 2004:** Leeds Business School, Leeds Metropolitan University, Leeds, UK
(June – Sep) Post Graduate Certificate in Personal and Professional Skills.
- 1997-2001:** University of Engineering and Technology, Peshawar, KPK Pakistan.
BSc in Mechanical Engineering
Thesis: Design and Instrumentation of Split Hopkinson Pressure Bar (SHPB) for High Strain Impact Testing and Analysis.
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Awards

- University Teacher Award (2009-2013) , By Loughborough University , UK
 - Foreign Scholarship Award for MS leading PhD (2009-20013) studies by UET, Peshawar at Loughborough University, UK.
 - Young Engineers Scholarship Award by Roberts Food Group, UK (2005-2006) in Industrial based M.Sc. program in Engineering Control Systems & instrumentations at the Huddersfield University, West Yorkshire, UK.
 - Research Assistantship Award at Impact Research Lab, Department of Mechanical Engineering, UET Peshawar (March 2002- Oct 2002) during B.Sc in Mechanical Engineering.
 - Merit Scholarship By B.I.S.E Swat for Higher Secondary School Certificate Examination (1995-1997) at Islamia College Peshawar
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Membership of Professional Bodies

- Life Time Professional Engineer Membership with Pakistan Engineering Council (PEC).
- Senior Member with American Society of Mechanical Engineers (ASME), USA.
- Member with Institute of Materials, Minerals and Mining (IOM³), UK.
- Life time Members of Institute of Engineers (IEP), Pakistan.

Skills

Professional Skills:

- Composites development (Melt Blending)
- Natural fibres reinforced polymer composites
- Samples Preparation (Compression Molding, extrusion)
- Composites Characterizations - Thermal (DSC), viscoelastic (DMA), Mechanical Testing (Tensile Testing, Impact Testing).
- Morphological – SEM, Backscattered SEM, Hot-stage Microscopy
- Surface topography analysis techniques; (Dynamic Contact angle analysis, surface roughness analysis).

Communication

- Experienced presenter for industrial and academic topics
- Developed concise report and scientific writing skills
- Efficient speaker at formal meetings and conferences
- Excellent Insight of National Academic Affairs in HEI

Trainings and Short Courses

Scientific:

- Polymer Processing and Properties, Loughborough University, UK (1-5 November, 2010)
- Polymer characterization, Loughborough University, UK (7-11 February, 2010)
- Polymer Science, Loughborough University, UK (9-13May, 2011)

Teaching

- Teaching Skills for Research Staff , Loughborough University, UK (9-10 March, 2010)
- Engineering Lab. Demonstration ,Sheffield Hallam University, UK (30th November, 2010)
- New Lecturer Training, Higher Education Academy (HEA) , UK (30-31 January , 2012)
- Successful Teaching and Assessment for Researchers (STARs), Teaching Centre, Loughborough University, UK (12 March, 2012).

Professional

- OBE Trained as Evaluator By PEC , Pakistan (2016-17)
- Academic Writing, Student Support Centre, Loughborough University, UK (2011).
- Green Skills; Learning and Leading on Sustainability, Loughborough University (2011)
- Working with Media for Researchers, Media Player International, Loughborough University, UK (2012)
- Project Management in the real world, Fistral Training and Consultancy Ltd, Loughborough University (2012)

Interests

Family Outing, Cricket, Badminton, Travelling, Newspapers, Technology news ,

Employment Epilog

May. 2016 to Date	Working as Associate Professor in the Department of Mechanical Engineering at University of Engineering and Technology, Peshawar, Pakistan.
Feb 2007 to May, 2016	Worked as Assistant Professor in the Department of Mechanical Engineering at University of Engineering and Technology, Peshawar, Pakistan.
Dec, 2009 to Dec, 2013	Worked as University Teacher and Lab. Demonstrator in the Department of Materials, Loughborough University, Leicestershire, UK.
April,2006 to Feb, 2007	Worked as a Lecturer in the Department of Mechanical Engineering at University of Engineering and Technology, Peshawar, Pakistan.
Nov, 2003 to Mar, 2006	Worked with Roberts Yorkshire Kitchen Ltd, Leeds, UK as Mechanical Engineer as part of EGTP-UK project.
Oct, 2002 to Sep. 2003	Worked with Pre-Cold Engineering Industries , LG Pakistan as Operation & Maintenance (O&M) Engineer.
Mar, 2002 to Sep. 2002	Worked as Research Assistant in Impact Research Lab, at the Department of Mechanical Engineering, University of Engineering and Technology, Peshawar, Pakistan.

Other Administrative Activities

- Director Advanced Technical Resource Centre, Department of Mechanical Engineering, UET Peshawar.
- UNIDO focal Person on CleanTeach Project, UET, Peshawar.
- Incharge Industrial Liaison & Career Resource Centr, Department of Mechanical Engineering, UET Peshawar.
- Member of Board of Studies, Department of Mechanical Engineering, UET Peshawar.
- Advisor for Dynamics & Control, Department of Mechanical Engineering, UET Peshawar.
- Member of PREC, Department of Mechanical Engineering, UET Peshawar.
- Member REC, PhD student, SCME, NUST, Islamabad.
- Member REC, PhD student, Department of Mechanical Engineering, UET Peshawar.
- Member REC, PhD student, Department of Industrial Engineering, UET Peshawar.
- Member PEC Accreditation Team , Department of Mechanical Engineering, UET Peshawar.
- Member of University Income Tax Committee, UET Peshawar.
- Member of University Statutes Committee, UET Peshawar.
- Two Times Elected Member of Syndicate, UET Peshawar
- Elected President of British Alumni Association of Pakistan (BAAP), KP Chapter.
- Ex-Elected President of FAPUASA – KP Chapter, Pakistan.
- Ex-Elected President of Engineering University Teacher’s Association (EUTA), UET, Peshawar.
- Student Section Advisor, ASME Student Chapter at the Department of Mechanical Engineering, UET Peshawar.

Journal Publications

1. Muhammad Imran Khan, Tabassam Yasmeen, **Abdul Shakoore**, Niaz Bahadur Khan, Riaz Muhammad: *2014 oil plunge: Causes and impacts on renewable energy*. Renewable and Sustainable Energy Reviews 10/2016; 68(1). DOI:10.1016/j.rser.2016.10.026.
2. Bibi Safia Haq, Shahnaz Attaullah, **Abdul Shakoore**, Hidayat Ullah Khan, Khan Alam: *Characteristics and efficacy of ultrafast laser pulses for biomedical applications*. Journal of Engineering and Applied Sciences 07/2016; 35(1).
3. Bibi Safia Haq, Hidayat Ullah Khan, **Abdul Shakoore**, Shahnaz Attaullah, Kauser Shaheen, Khan Alam: *Two-photon fluorescence excitation cross-sections of photosensitizer thioxanthone to fabricate cell scaffold for biomedical applications*. Journal of Engineering and Applied Sciences.
4. Muhammad Imran Khan, Tabassam Yasmeen, **Abdul Shakoore**, Niaz Bahadur Khan, Muhammad Wakeel, Bin Chen: *Exploring the potential of compressed natural gas as a viable fuel option to sustainable transport: A bibliography (2001-2015)*. Journal of Natural Gas Science and Engineering 03/2016; 31. DOI:10.1016/j.jngse.2016.03.025.
5. N.Z.Khan, A. Khan, **A.Shakoore**, K.Azam: *Manufacturing Defects Of Brass Products And Suggested Remedies*.
6. Muhammad Imran Khan, Tabassum Yasmin, **Abdul Shakoore**: *Technical overview of compressed natural gas (CNG) as a transportation fuel*. Renewable and Sustainable Energy Reviews 07/2015; 51.DOI:10.1016/j.rser.2015.06.053.
7. Muhammad Imran Khan, Tabassum Yasmin, **Abdul Shakoore**: *International experience with compressed natural gas (CNG) as environmental friendly fuel*. Energy Systems 06/2015; 6(3).
8. Muhammad Imran Khan, Tabassum Yasmin, Abdul Shakoore: *International experience with compressed natural gas (CNG) as environmental friendly fuel*. Energy Systems 06/2015; 06(03). DOI:10.1007/s12667-015-0152-x
9. R. Waheed, **A. Shakoore**, K. Azam, A. Khan, F. Shah: *Welding distortion control in thin metal plates by altering heat input through weld parameters*.
10. Khizar Azam, **Abdul Shakoore**, Riaz Akbar Shah, Afzal Khan, Shaukat Ali Shah, Muhammad Shahid Khalil: *Comparison of fatigue related road traffic crashes on the national highways and motorways in Pakistan*.
11. M. Abbas, A. Khan, M. Ali Kamran, K. Azam, **A. Shakoore**: *Effect of weld current and weld speed on the microstructure and tensile properties of Mg alloy specimens during Tungsten Inert Gas welding*.
12. Khizar Azam, **Abdul Shakoore**, Afzal Khan, Riaz Akbar Shah, Shaukat Ali Shah: *Identification of vital vehicle mechanical defects causing road traffic accidents in Pakistan*.
13. **Abdul Shakoore**, Feroz Shah, Mohammad A. Irfan, Rizwan M. Gul: *Algorithm development and implementation for numerical detection of hot spots in casting geometry*.
14. **A Shakoore**, N. L. Thomas: *Talc as a Nucleating Agent and Reinforcing Filler in Poly(lactic acid) Composites*. Polymer Engineering and Science 01/2014; 54(1). DOI:10.1002/pen.23543.
15. Asmat Ullah, S.W. Khan, **A. Shakoore**, V.M. Starov: *Passage and deformation of oil drops through nonconverging and converging slotted pore membranes..* Separation and Purification Technology 09/2013; 119.
16. **A Shakoore**, R Muhammad, N L Thomas, V V Silberschmidt: *Mechanical and thermal characterisation of poly(l-lactide) composites reinforced with hemp fibres*. Journal of Physics Conference Series 07/2013; 451(1). DOI:10.1088/1742-6596/451/1/012010.

- A. **A. Shako**or, K. Azam, S.W. Khan, A. Ullah: *Toughening PLA composites with natural fibers and ENR*. ASNTEC , USA (2011).
17. Sikandar Khan, Afzal Khan, Muhammad Tahir Khan, Muhammad Ali Kamran, **Abdul Shako**or: *Dynamic modeling and starting behavior of a small horizontal axis wind turbine*.
18. **Abdul Shako**or, Faith Kane, Dan Vardy, NL Thomas: *The Significance of Craft in the Development of Sustainable Textile Materials: Localism, Digital Technologies and Emotional Durability*.
19. **A Shako**or, K. Azam, A Khan, B. Ahmad, S. Maqsood: *Effect of Moisture Content on degree of crystallinity of biopolymer composites*.

Conferences

1. **Abdul Shako**or, Numan Khan, Riaz Muhammad, Naseer Ahmad, Vadim Silberschmidt: *Finite Element Simulation of Bullet Resistant Composite Body Armor*. Fourth International Conference on Aerospace Science & Engineering (ICASE), IST, Islamabad; 09/2015.
2. W Gul, A Khan, **A Shako**or: *Improving Physical and Mechanical Properties of Medium Density Fiberboard(MDF)*. 4th International Conference on Aerospace Science and Engineering, Institute of Space Technology; 09/2015.
3. **Abdul Shako**or, Rehan Waheed: *Prediction of welding induced distortion in thin metal plates using temperature dependent material properties and FEA Analysis*. 12Th IEEE INTERNATIONAL BHURBAN CONFERENCE ON APPLIED SCIENCES & TECHNOLOGY (IEEE 12th IBCAST), Islamabad , Pakistan; 01/2015.
4. W Gul, A Khan, **A Shako**or: *Characterization of Raw Materials for the Manufacturing of Medium Density Fibreboard (MDF)*. 3rd ASEAN Conference on Materials Science, National University of Science & Technology Islamabad; 11/2014.
5. Noor Zamin Khan, Afzal Khan, **Abdul Shako**or, Khizar Azam: *Investigation and Remedies of Various Defects of Brass Products in Pakistan*. APCoMS-3, 3rd ASEAN-Pakistan Conference on Materials Science, SCME, NUST, Islamabad, Pakistan; 11/2014.
6. **Abdul Shako**or, Rizwan Gul, Afzal Khan: *Improvement of the Mechanical Properties of Biopolymer with Natural Fibres and Copolymers*. APCoMS-3, 3rd ASEAN-Pakistan Conference on Materials Science, SCME, NUST, Islamabad, Pakistan; 11/2014.
7. Waheed Gul, Afzal Khan, **Abdul Shako**or: *Characterization of Raw Materials for the Manufacturing of Medium Density Fiberboard (MDF)*. APCoMS-3, 3rd ASEAN-Pakistan Conference on Materials Science (APCoMS 3), SCME, NUST, Islamabad, Pakistan; 11/2014.
8. **Abdul Shako**or, K.Azam, S.W.Khan, A.Ullah: *Toughening PLA composites with natural fibers and ENR*. SPE Annual ACCE, Michigan, USA; 09/2013.
9. **Abdul Shako**or, Faiz Mahdi: *Influencing the Filtration Flow Rate by Coating the Particulate Substance*. Northern Postgraduate Chemical Engineering Conference (NPCEC 2013), Newcastle; 08/2013.
10. **Abdul Shako**or: *Characterization of Poly (L- Lactide) Hybrid Reinforced Composites*,. EUROTEC® 2013 - Proceedings of the 2nd European Technical Conference & Exhibition [on-line]; 07/2013.
11. **Abdul Shako**or: *Viscoelastic and Mechanical properties of Polylactide Based Bio-Composites*. International Conference on Materials Science & Technology (MS&T ' 2012), 10/2012.
12. **Abdul Shako**or, Faith Kane, Dany varyd, NL Thomas: *Essamplaire: An Approach to Working at the Technology | Art | Design Interface in Textiles*. AMBIENCE'11 EXHIBITION; 11/2011

13. **Abdul Shakoor**, Arshad Mehmood, Khizar Azam, RA Sayyed: *Manufacturing knowledge sharing: the utilization of knowledge base technologies in PLM*. ASME Early Technical Conference (ECTC) 2009.
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Reviewer

1. Polymer Composites (I.F=2.324), ISSN: 1548-0569
 2. Polymer Engineering & Science (I.F=1.449), ISSN:1548-2634
 3. Energy Policy (I.F=4.599), ISSN: 0301-4215
 4. Journal of Engineering and Applied Sciences (HEC “ X” Category) ISSN : 1023-862X
 5. Technical Journal of UET, Taxila (HEC “ Y “ category)
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References

Available on request