Dr. Zahid Akhtar Khan
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Google Scholar Link: https://scholar.google.co.in/citations?hl=en&user=S4jjX-kAAAAJ
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Research Interests

- Production and Industrial Engineering
- Optimization of design and manufacturing processes parameters
- ANN & Fuzzy modeling
- Quality Engineering
- Ergonomics/Human Factors Engineering
- Environmental Ergonomics

Education

- **Ph.D., Mechanical Engineering** (2001)
  Jamia Millia Islamia, New Delhi, India
  Thesis Title: Ergonomic investigations on human performance in HCI environment involving operations on Desktop and Laptop systems under the impacts of orgasmic variables and noise-induced stresses
- **M.Sc. Engineering, Industrial and Production Engineering** (1989)
  Aligarh Muslim University, Aligarh, India Division:1st
  Thesis Title: Ergonomic studies pertaining to the effect of type of foil, luminous intensity and the variable sex, on readability of medicinal foils employed in pharmaceutical industries.
- **B.Sc. Engineering, Mechanical Engineering** (1986)

Aligarh Muslim University, India Division:1st

Software Skills

- Languages: ForTran-77
- Applications: Mat Lab, MS-Office, Minitab, SPSS, DesignExpert, AutoCAD
- Platforms: Windows XP, MS DOS

Academic Experience

- **Professor**, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India (27 July 2009-till date)
- **Associate Professor**, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India (27 July 2006-26 July 2009)
- **Reader**, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India (27 July 2003-26 July 2006)
- **Senior Lecturer**, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India (27 July 1998-26 July 2003)
- **Lecturer**, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India (01 Aug. 1990-26 July 1998)
- **Lecturer**, Department of Mechanical. Engineering, Aligarh Muslim University, Aligarh, India (02 Nov. 1987-31 July 1990)
- **Lecturer**, School of Mechanical Engineering, University Sains Malaysia, Malaysia (25 June 2002-24 June 2005)
- **Associate Professor,** Industrial Engineering Department, College of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia (13 November 2006-31July 2008)

Courses Taught

Production Engineering, Manufacturing Sciences, Workshop Technology, Advance Manufacturing Processes, Advance Manufacturing Technology, Industrial Engineering, Quality Engineering, Engineering Economy & Management, , Manufacturing Systems, Elements of Mechanical Engineering, Ergonomics & Industrial Safety, Production & Operations Management (Production Planning, Facility Design), Operations Research (Mathematical Modeling, Simulation, Stochastic Processes), Application of Statistics in Research Methodology, and Managerial Economics.

Doctoral Theses Supervision

Following students have been awarded/submitted/pursuing their Ph.D. in the area of **Production Engg**. under my supervision:

Sl. No.	Name of the Student	Topic	Date of Registration	Status	Supervisor / Co-supervisor

1.	Vinod Kumar Saini	Some Studies on Machining of Metal Matrix Composite Using Wire EDM.	25.03.2010	Awarded	Supervisor
2.	Brijpal Singh	Some Studies on Submerged Arc Welding of Steel.	25.03.2010	Awarded	Supervisor
3.	Shyam Lal	Fabrication and Machining of Metal Matrix Composite	26.03.2010	Awarded	Supervisor
4.	Mohsin Talib Mohammad	Influence of Thermo Mechanical Processing on Mechanical and Corrosion Properties of Titanium Alloys	15.06.2011	Awarded	Supervisor
5.	Suha Karim Shihab	Experimental Investigations on Machining of Hard Steels Using High Performance Cutting Tools	15.06.2011	Awarded	Co-supervisor
6.	Pankul Goel	Some Studies on Friction Stir Welding of Dissimilar materials	10.09.2012	Awarded	Supervisor
7.	Noor Zaman Khan	An Investigation on Friction Stir Welding of Dissimilar Aluminum Alloys	26.09.2013	Awarded	Supervisor
8.	Nidhi Sharma	Some Studies on Friction Stir Welding of nonferrous dissimilar materials	26.09.2013	Awarded	Supervisor
9.	Mohd. Atif Wahid	Some Studies on Underwater Friction Stir Welding	26.09.2013	Awarded	Supervisor
10.	Vivek Jain	Investigation on surface modification using Friction Stir Processing (FSP)	26.09.2013	In Progress	Co-supervisor
11.	Md. Ziyaur Rahman	Surface Hardening using Hybrid FSP	29.09.2015	In Progress	Supervisor
12.	Manoj Kumar Yadav	Some studies on surface modification using Hybrid Friction Stir Processing Approach	29.09.2015	In Progress	Co-supervisor
13.	Firasat Husain	Surface Density Modification Using Hybrid FSP		In Progress	Co-supervisor
14.	Rashid Latif	Some Studies on Natural Fibre Reinforced Composites	04.11.206	In Progress	Supervisor
15.	Mubeen	Some Studies on tailored blank fabrication (T Joint) by FSW	04.11.206	In Progress	Co-supervisor
16.	Sandeep Kumar Vashisht	Study and Analysis of Barriers and Success Factors of Business Process Reengineering in the Context of Indian Manufacturing Organizations	26.12.2017	In Progress	Supervisor
17.	Asif Iqbal	An Investigation on Friction			Co-supervisor

		Stir Welding of Thick Plates of Aluminium Alloys			
18.	Syed Saud Abidi	An Investigation on Machining & Finishing of AISI50100 Hardened Alloy Steel	26.12.2017	In Progress	Co-supervisor
19.	Vishnu Kumar Tiwari	An investigation on error and accuracy of machined component	05.02.2019	In Progress	Supervisor
20.	Deepak Prashant Singh	Experimental analysis of machining of materials on micro-EDM	05.02.2019	In Progress	Supervisor
21.	Ashish Sharma	Studies on Friction Stir Welding of Dissimilar Alloys	05.02.2019	In Progress	Supervisor

M. Tech. Dissertation and B. Tech. Projects Supervision:

M. Tech.	B. Tech.
Completed - 9 (In the area of **Production & Industrial Engg./Production Management**)	**Completed** – more than 25 (In the area of **Production & Industrial Engg.**)
Undergoing – 1 (In the area of **Production Engg.**)	

Research & Development Activities

- Completed a SAP grant of Rs. 33 lacs from UGC for developing "Friction Stir Welding, Ultrasonically Assisted Machining" facilities in the Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi.
- Developed "Mobile Vibration and Noise Research Unit (MOVINRU) of AICTE Grant of Rs. 4.0 lacs in the Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi, India.
- Completed AICTE sponsored project (worth Rs. 6.0 lacs) on study effect of NOISE on industrial workers in and around Delhi, India.
- Helped in the establishment of Ergonomics Laboratory in the Department of Mechanical. Engineering, AMU, Aligarh, India.
- Completed research projects (worth Rs. 5.0 lacs) in the University Sains Malaysia.
- Incharge, Workshop, Department of Mechanical. Engineering, Jamia Millia Islamia, New Delhi.

Short Term Courses/Schools Attended

- Six weeks course on "Entrepreneurship Development Programme" at Aligarh Muslim University, Aligarh, India.
- Two weeks course on "Pascal (Computer Language) at Aligarh Muslim University, Aligarh, India.
- One week course on "Improvement of Instruction through Educational Technology, Organised by IIT Delhi in collaboration with Jamia Millia Islamia, New Delhi, India.
- Four weeks orientation course for teacher Jamia Millia Islamia, New Delhi, India.

- Two days course on "Intelligent Systems and Soft computing with practical applications using MATLAB", Kuala Lumpur, Malaysia.
- Two days course on "Aspects of GMAW (MIG, MAG, CO_2 and FCAW)", IIT Delhi, India.

Contribution to Academic and other activities:

University Level

- **Warden,** Boys Hostel (White House), JMI, New Delhi, India (1999-2000).
- **Warden,** Boys Hostel (Pink House), JMI, New Delhi, India, (1992-93).
- **Assistant Proctor,** JMI, New Delhi, India, (1996-1997).
- **Centre Superintendent** for Engg. Entrance Test of JMI, held at Patna in 2010.
- **Assistant Superintendent** for Engg. Entrance and other Tests of JMI, (1991, 1992 & 1997. 2009 &2010).

Faculty Level

- **Coordinator**, Training and Placement for Post Graduate Students.
- **Member,** Sports Committee. Actively involved in organizing various sports events.
- **Incharge,** Faculty Magazine Tech Times.
- **Involved,** in the preparation of proposal for B.Tech. in Petroleum Engg.

Department Level

- **Incharge**, Workshop
- **Developed** a state-of-the art Metrology Laboratory
- **Member** Result Analysis Committee
- **Member**, Sub-purchase Committee
- **Advisor**, Students of Mech. Engg.
- **Special Invitee**, Research Board.
- **Tabulator**, M.Tech. and B.Tech. Results.
- **Involved** in various other activities such as preparation of Annual report, Plan Proposal etc.

Books (Coauthored):

- **"Principles of Engineering Economics with Applications"** (Published by Cambridge University Press, UK, 2018, ISBN: 978-1-108-45885-6).
- **"Engineering Mechanics Problems and Solutions"** (Published by Cambridge University Press, UK, 2018, ISBN: 978-1-108-41162-2).
- **"Friction Stir Welding: Dissimilar Aluminium Alloys"** (Published by CRC Press, Taylor and Francis, 2017, ISBN: 978-11-381-9675-9).
- **"Engineering Economics and Cost Analysis".** (Published by "Pearson Education", New Delhi, India, 2012, ISBN: 978-81-317-9477-7, RIGHTS WITHDRAWN FROM PUBLISHER).
- **"Engineering Economy". (**Published by "Pearson Education", New Delhi, India, 2012, ISBN: 978-81-317-6387-2, RIGHTS WITHDRAWN FROM PUBLISHER).

- **"Engineering Drawing with a Primer on AUTOCAD"** (Published by Prentice Hall of India, New Delhi, India, 2004, ISBN: 978-81-203-2440-4).
- **Fundamentals of Computers (Covering: DOS, Windows, UNIX, Networking, MS Office, C++)"** (Published by G. S. Rawat for Cyber Tech. Publications, N. Delhi, India, 2003, ISBN: 81-7884-063-4).
- **"Quality control for Engineers and Managers"** (Published by Galgotia Publishers, New Delhi, India, 2001, ISBN: 81-7515-362-8).

Monographs (Coauthored):

- **"Quantitative analysis of heat transfer on human operators".** (Published by VDM Verlag, Germany, 2010, ISBN: 978-3-639-18910-0).
- **"Some Studies on Surface Integrity of Machined Surfaces"** (Published by LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany., ISBN: ISBN 978-3-659-18744-5).

Patents:

- **Arshad Noor Siddiquee, Noor Zaman Khan, Zahid A. Khan, an INDIAN Patent entitled "UNIVERSAL FRICTION WELDING/PROCESSING TOOL ADAPTER"** *published in Official Journal of the Patent Office. Application No - 201911002618, Published on 22/02/2019.*
- **Sameera Mufazzal, Arshad Noor Siddiquee, Zahid A. Khan, an INDIAN Patent entitled "DOUBLE STROKE CUTTING MECHANISM"** *published in the Official Journal of the Patent Office. Issue No. 47/2014, 21/11/2014. International Classification: B26d5/20. Page-10361. Application number: 2449/del/2014.*
- **Noor Zaman Khan, Arshad Noor Siddiquee, Zahid A. Khan, an INDIAN Patent entitled "UNIVERSAL FRICTION WELDING/PROCESSING WORK FIXTURE"** *published in Official Journal of the Patent Office. Application No -201611017741, Publication No: 38/2016, IPC Classification: B23K-20/00.*
- **Arshad Noor Siddiquee, Kishore Kumar Mistri, Zahid A. Khan, Dinakar Kanjilal an INDIAN Patent entitled "Cu to AISI-316 AUTOGENOUS DISSIMILAR JOINING BY ELECTRON BEAM WELDING"** *Published in the Official Journal of Patent Office: Application No -201611032879. International Classification: B23K-9/00.*

Journal Publications

1. Ishrat, S. I., **Khan, Z. A.**, Siddiquee, A. N., Badruddin, I. A., Algahtani, A., Javaid, S., Gupta, R. (2019), *Optimizing Parameters foe Expanded Polystyrene Based Pod Production Using Taguchi Method*, **Mathematics (MDPI, Basel, Switzerland)**, 7, 847, 1-17, DOI: 10.3390/math7090847, ISSN: 2227-7390.

2. Jie, Y. J., Kamaruddin, S., Mustapha, M., Siddiquee, A. N., Al-Ahmari, A., **Khan, Z. A.**, Abidi, M. H., Gangi, N. (2019), *Reclamation of steel shots by acid leaching for powder metallurgy applications*, **Advances in Mechanical Engineering (SAGE Publications)**, 11(7), 1-9, DOI: 10.1177/1687814019866961, ISSN: 16878132

3. Yahya, S. M., Asjad, M. and **Khan, Z. A.** (2019), *Multi-response optimization of TiO_2/EG-water nano-coolant using entropy based preference indexed value (PIV) method*, **Materials Research Express (IOP Publishing Ltd.)**, DOI: https://doi.org/10.1088/2053-1591/ab23bb, ISSN: 2053-1591.

4. Khan, N. Z., Ansari, T. S. A., Siddiquee, A. N. and **Khan, Z. A.** (2019), *Selection of E-learning websites using a novel Proximity Indexed Value (PIV) MCDM method*, **Journal of Computers in Education (Springer)**, 6(2): 241-256. ISSN: 2197-9987.

5. Muqeem, M., Sherwani, A. F., Ahmad, M. and **Khan, Z. A.** (2019), *Application of the Taguchi based entropy weighted TOPSIS method for optimization of diesel engine performance and emission parameters*, **International Journal of Heavy Vehicle Systems (Inderscience)**, 26(1): 69-93. ISSN: 1744-232X.

6. Goel, P., Wahid, M. A., Sharma, N., Siddiquee, A. N. and **Khan, Z. A.** (2019), *Effects of Welding Parameters in Friction Stir Welding of Stainless Steel and Aluminum*, **K. Shanker et al. (eds.), Advances in Industrial and Production Engineering, Lecture, Notes in Mechanical Engineering (Springer Nature)**, 815-823. https://doi.org/10.1007/978-981-13-6412-9_75.

7. Sharma, N., Goel, P., Wahid, M. A., **Khan, Z. A.** and Siddiquee, A. N. (2019), *Optimization of FSW Process Parameters During Joining of Al to Cu Using Taguchi-Based GA*, **K. Shanker et al. (eds.), Advances in Industrial and Production Engineering, Lecture, Notes in Mechanical Engineering (Springer Nature)**, 833-842. https://doi.org/10.1007/978-981-13-6412-9_77.

8. Wahid, M. A., Sharma, N., Goel, P., **Khan, Z. A.** and Siddiquee, A. N. (2019), *Temperature and Traverse Force Analysis During Underwater Friction Stir Welding*, **A. Prasad et al. (eds.), Advances in Engineering Design, Lecture Notes in Mechanical Engineering (Springer Nature)**, 41-49. https://doi.org/10.1007/978-981-13-6469-3_4.

9. Khan, N. Z., Siddiquee, A. N., and **Khan, Z. A.** (2018), *Proposing a new relation for selecting tool pin length in friction stir welding process*, **Measurement (Elsevier)**, 129: 112-118. ISSN: 0263-2241.

10. Wahid, M. A., **Khan, Z. A.,** Siddiquee, A. N., Shandley, R., and Sharma, N. (2018), *Analysis of process parameters effects on underwater friction stir welding of aluminum alloy 6082-T6*, **Proceedings of the Institution of Mechanical Engineers Part B, Journal of Engineering Manufacture, Sage Publication,** 1-11 , DOI: 10.1177/0954405418789982, ISSN: 2041-2975 .

11. Wahid, M. A., Siddiquee, A. N., **Khan, Z. A.**, and Sharma, N. (2018), *Analysis of cooling media effects on microstructure and mechanical properties during FSW/UFSW of AA6082-T6*, **Materials Research Express (IOP Publishing Ltd.)**, DOI: https://doi.org/10.1088/2053-1591/aab8e3, ISSN: 2053-1591.

12. Sharma, N., **Khan, Z. A.**, Siddiquee, A. N., Shihab, S. K., and Wahid, M. A. (2018), *Effect of process parameters on microstructure and electrical conductivity during FSW of Al-6101 and Pure Copper*, **Materials Research Express (IOP Publishing Ltd.)**, DOI: https://doi.org/10.1088/2053-1591/aabbe0, ISSN: 2053-1591.

13. Lal, S., Kumar, S., and **Khan, Z. A.** (2018), *Microstucture evaluation, thermal and mechanical characterization of hybrid metal matrix composite*, **Science and Engineering of Composite Materials**, **(De Gruyter, Germany), 6(4):** Accepted, ISSN**:** 2191-0359.

14. Khan, N. Z., Ubaid, M., Siddiquee, A. N., **Khan, Z. A.**, Al-Ahmari, A., Chen, X., Abidi, M. H. (2018), *Microstructural features of friction stir welded dissimilar Aluminium alloys AA2219-AA7475*, **Materials Research Express (IOP Publishing Ltd.)**, DOI: https://doi.org/10.1088/2053-1591/aac4e1, ISSN: 2053-1591.

15. Wahid, M. A., **Khan, Z. A.**, Siddiquee, A. N. (2018), *Review on underwater friction stir welding: A variant of friction stir welding with great potential of improving joint properties*, **Trans. Nonferrous Met. Soc. China (Elsevier),** 28: 193-219. ISSN: 1003-6326.

16. Goel, P., Siddiquee, A. N., Khan, N. Z., Hussain, M. A., **Khan, Z. A.**, Abidi, M. H. and Al-Ahmari, A. (2018), *Investigation on the Effect of Tool Pin Profiles on Mechanical and Microstructural Properties of Friction Stir Butt and Scarf Welded Aluminium Alloy 6063*, **Metals – Open Access Metallurgy Journal (MDPI AG, Basel, Switzerland)**, 8(74): 1-15. ISSN: 2075-4701.

17. Khan, N. Z., Siddiquee, A. N., **Khan, Z. A.**, Bajaj, D., and Ubaid, M. (2018), *Understanding the dissimilar friction stir welding through force and temperature evolution*, **Material Today Proceeding (Elsevier)**, 5: 17125-17131. ISSN: 2214-7853.

18. Chaudhary, T., Siddiquee, A. N., Chanda, A. K., **Khan, Z. A.** (2018), *On micromachining with a focus on miniature gears by non conventional processes: A status report*, **Archive of Mechanical Engineering (De Gruyter, Germany),** LXV(1): 129-169**.** ISSN: 2300-1895.

19. Singh, B., **Khan, Z. A.**, Siddiquee, A. N., and Maheshwari, S. (2018), *Experimental study on effect of flux composition on element transfer during submerged arc welding*, **Sadhana (Springer)**, 43(26): 1-12. DOI: https://doi.org/10.1007/s12046-018-0782-5, ISSN: 0256-2499.

20. Shihab, S. K., Khan, N. Z., Myla, P., Upadhyay, S., **Khan, Z. A.**, and Siddiquee, A. N. (2018), *Application of MOORA method for multi optimization of GMAW process parameters in stainless steel cladding*, **Management Science Letters (Growing Science)**, 8: 241-246. ISSN: 1923-9335.

21. Muqeem, M., Sherwani, A. F., Ahmad, M. and **Khan, Z. A.** (2018), *Optimization of diesel engine input parameters for reducing hydrocarbon emission and smoke opacity using Taguchi method and analysis of variance*, **Energy & Environment (Sage Publication)**, 29(3): 410-431**.** DOI: 10.1177/0958305X17751393. ISSN: 0958305X.

22. Sharma, N., Siddiquee, A. N., and ., **Khan, Z. A.** (2018), *Friction Stir Welding Defects in Aluminium to Copper Joining: An Overview*, **Journal of Manufacturing Technology Research (Nova Science Publishers, Inc.)**, 9(1-2): 69-79. ISSN: 1943-8095.

23. Hussain, M. A., Khan, N. Z., Siddiquee, A. N., and **Khan, Z. A.** (2018), *Effect of Different Tool Pin Profiles on the Joint Quality of Friction Stir Welded AA6063*, **Material Today Proceeding (Elsevier)**, 5: 4175-4182. ISSN: 2214-7853.

24. Sharma, N., Wahid, M. A., **Khan, Z. A.**, Siddiquee, A. N., and Singh, S. (2018), *Effect of Traverse Force and Temperature Variation during FSW*, **International Journal of Advance Research in Science and Engineering**, 7(01): 303-310. ISSN: 2319-8354.

25. Latif, R., Wakeel, S., Khan, N. Z., Siddiquee, A. N., Verma, S. L., and **Khan, Z. A.** (2018), *Surface treatments of plant fibers and their effects on mechanical properties of fiber-reinforced composites: A review*, **Journal of Reinforced Plastics & Composites (Sage)**, 0(0): 1-16. DOI: 10.1177/0731684418802022, ISSN, 0731-6844.

26. Yadav, M. K., Siddiquee, A. N., and **Khan, Z. A.** (2018), *Fabrication of Promising Material "Titanium Aluminide": Methods and Issues (A Status Report)*, **Materials Research Express (IOP Publishing Ltd.)**, DOI: https://doi.org/10.1088/2053-1591/aadb2a, ISSN: 2053-1591.

27. Sharma, N., **Khan, Z. A.**, and Siddiquee, A. N. (2017), *Friction stir welding of aluminum to copper – An overview*, **Trans. Nonferrous Met. Soc. China (Elsevier),** 27: 2113-2136. ISSN: 1003-6326.

28. Khan, N. Z., Siddiquee, A. N., and **Khan, Z. A.** (2017), *Investigations on the effect of tool pin profile on the joint quality of Friction Stir welded Aerospace grade Aluminum Alloy*, **Journal of Manufacturing Science and Production (De Gruyter, Germany), 6(4):** DOI: https://doi.org/10.1515/jmsp-2016-0042, ISSN**:** 2191-0375

29. Khan, N. Z., Siddiquee, A. N., and **Khan, Z. A.,** and Mukhopadhyay, A. K. (2017), *Mechanical and Microstructural Behavior of Friction Stir Welded Similar and Dissimilar Sheets of AA2219 and AA7475 Aluminium Alloys,* **Journal of Alloys and Compounds (Elsevier),** 695: 2902-2908. ISSN: 0925-8388.

30. Khan, N. Z., **Khan, Z. A.,** and Siddiquee, A. N. (2017), *Analysis of defects in clean fabrication process of friction stir welding*, **Trans. Nonferrous Met. Soc. China (Elsevier),** 27: 1507-1516. ISSN: 1003-6326.

31. Sharma, N., Siddiquee, A. N., **Khan, Z. A.**, Mohammed, M. T. (2017), *Material stirring during FSW of Al-Cu: Effect of pin profile*, **Materials and Manufacturing Processes (Taylor & Francis)**, DOI: 10.1080/10426914.2017.1388526. ISSN: 1042-6914.

32. Siddiqie, R. Y., **Khan, Z. A.**, Siddiquee, A. N. (2017), *Prioritizing decision criteria of flexible manufacturing systems using fuzzy TOPSIS*, **Journal of Manufacturing Technology Management (Emerald)**, 28(7): 913-927. ISSN: 1741-038X.

33. Muqeem, M., Sherwani, A. F., Ahmad, M. and **Khan, Z. A.** (2017), *Taguchi-based combined grey relational and principal component analyses for multi-response optimization of diesel engines*, **Grey Systems: Theory and Application (Emerald)**, 7(3): 408-425. ISSN: 2043-9377.

34. Mohammed, M. T. and **Khan, Z. A.** (2017), *Investigations on the Biomechanical Compatibility of a Novel Titanium Alloy*, **Materials Today: Proceedings (Elsevier),** 4: 10432–10436. ISSN: 2214-7853.

35. Singh, B., **Khan, Z. A.**, Siddiquee, A. N., Maheshwari, S., and Sharma, S. K. (2016), *Effect of Flux Composition on the Percentage Elongation and Tensile Strength of Welds in Submerged Arc Welding,* **Archive of Mechanical Engineering (De Gruyter, Germany),** 63(3): 337-354. ISSN: 2300-1895.

36. Singh, B., **Khan, Z. A.**, Siddiquee, A. N., and Maheshwari, S. (2016), *Effect of CaF_2, FeMn and NiO additions on impact strength and hardness in submerged arc welding using developed agglomerated fluxes,* **Journal of Alloys and Compounds (Elsevier),** 667: 158-169. ISSN: 0925-8388.

37. Shihab, S. K., **Khan, Z. A.**, and Siddiquee, A. N. (2016), *Investigation on the effect of Machining Parameters on the Corner Radius in Pocket Milling,* **Global Sci-Tech (Indian Journal)**, 8(2): 61-66. ISSN: 2455-7110.

38. Singh, B., **Khan, Z. A.**, Siddiquee, A. N., Maheshwari, S. (2016), *Optimal Design of Flux for Submerged Arc Weld Properties Based on RSM Coupled with GRA and PCA,* **International Journal of Manufacturing Technology and Management (InderScience), In Press.** ISSN: 1368-2148.

39. Wahid, A. M., Siddiquee, A. N., **Khan, Z. A.,** and Asjad, M. (2016), *Friction Stir Welds of Al Alloy-Cu: An Investigation on Effect of Plunge Depth,* **Archive of Mechanical Engineering (De Gruyter, Germany),** 63(4): 619-634**.** ISSN: 2300-1895.

40. Niharika, Agrawal, B. P., Khan, I. A., and **Khan, Z. A.** (2016), *Effects of Cutting Parameters on Quality of Surface Produced by Machining of Titanium Alloy and Their Optimization*, **Archive of Mechanical Engineering (De Gruyter, Germany),** 63(4): 531-548**.** ISSN: 2300-1895.

41. Shihab, S. K., **Khan, Z. A.**, Siddiquee, A. N., and Khan, N. Z. (2015), *A novel approach to enhance performance of multilayer coated carbide insert in hard turning,* **Archive of Mechanical Engineering (De Gruyter, Germany),** 62(4): 539-552. ISSN: 2300-1895.

42. Shihab, S. K., **Khan, Z. A.**, and Siddiquee, A. N. (2015), *RSM Based Investigations on the Effects of Cutting Parameters on Surface Integrity during Cryogenic Hard Turning of AISI 52100,* **Journal for Manufacturing Science and Production (De Gruyter, Germany),** 15(3): 309-318. ISSN: 2191-0375.

43. Srivastava, V. S., **Khan, Z. A.,** Siddiquee, A. N., and Tripathi, D. (2015), *Multi Response Optimizatin of CNC Turning Process Parameter using Taguchi and Grey Relational Analysis,* **Global Sci-Tech (Indian Journal)**, 7(3): 146-154. ISSN: 2455-7110.

44. Mohammed, M. T., **Khan, Z. A.** , and Siddiquee, A. N. (2015), *Metallic Materials for Biomedical Applications,* **Global Sci-Tech (Indian Journal)**, 7(1): 10-14. ISSN: 2455-7110.

45. Khan, N. Z., Shihab, S. K., Sharma, N., Wahid, A., Siddiquee, A. N., and **Khan, Z. A.** (2015), *Investigation on the effect of WEDM process parameters on surface roughness,* **Global Sci-Tech (Indian Journal)**, 7(1): 1-9. ISSN: 2455-7110.

46. **Khan, Z. A.,** Shihab, S. K., and Siddiquee, A. N. (2015), *Analysis of chip morphology in dry hard turning of AISI 52100 alloy steel using RSM***, International Journal of Machining and Machinability of Materials (Inderscience),** 17(6): 481-506. ISSN: 1748-5711.

47. Khan, N. Z., Siddiquee, A. N., **Khan, Z. A.,** and Shihab, S. K. (2015)**,** *Investigations on tunneling and kissing bond defects in FSW joints for dissimilar aluminum alloys,* **Journal of Alloys and Compounds (Elsevier),** 648(5): 360-367. ISSN: 0925-8388.

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Membership of Academic Bodies / Societies

Life member of Indian Society for Technical Education (ISTE)

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- International Journal of Quality and Reliability Management, Published by Emerald.

International Recognition

- Biography has been published in Marqui Who's Who in Science and Engineering – 10th editions, 2008-2009. This book is printed in USA in which biographies of today's world wide leading Scientists and Engineers are published.
- Recipient of International Scientist of the Year 2008 award given by International Biographical Centre, Cambridge, UK.
- Member, International Advisory committee of several international conferences.