

Dr. MOHAMMAD FASEEULLA KHAN

Assistant Professor



Personal Data:

Nationality | Indian
Date of Hire | 20-10-2022
Date Rank Obtained | 20-10-2022
Department | Mechanical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical	Manufacturing Engineering	Indian Institute of Technology Madras	Chennai, Tamil Nadu, India	2018
Masters (M.Sc.)	Mechanical	Welding Engineering	Indian Institute of Technology Roorkee	Roorkee, Uttarakhand, India	2010
Bachelor (B.Sc.)	Production Engineering	Production Engineering	Velagapudi Ramakrishna Siddhartha Engineering College	Vijayawada, Andhra Pradesh, India	2008

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Development and Deformation Behavior of the Ultrafine grained Magnesium Silver Rare Earth Alloy
Master	Studies on Weld-Bonded Joints of Metallic Sheets

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	Vellore Institute of Technology, Vellore	India	From	02-05-2019
			To	17-10-2022
Postdoctoral Researcher	Indian Institute of Technology Madras	India	From	06-09-2018
			To	30-04-2019
Assistant Professor	Usha Rama College of Engineering and Technology, Vijayawada, Andhra Pradesh	India	From	05-08-2010
			To	07-07-2012

Research Interests:

1. Metal Forming
2. Joining
3. Super plasticity and Deformation Behavior
4. Wear and Composites

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	MD F Khan, U Rokkala	Development of high strength and corrosion resistance Mg-Zn-Dy/HA-Ag composite for temporary implant applications	Materials Letters, 2023	https://www.sciencedirect.com/science/article/abs/pii/S0167577X23007899
2	B Venkatesh, F Khan MD, BN Sahoo, SK Panigrahi	A high temperature manufacturability study of ultrafine grained Magnesium Rare-Earth alloy using processing map and constitutive analysis.	Journal of Alloys and compounds, 2023	https://www.sciencedirect.com/science/article/abs/pii/S092583882301294X
3	A. Firouzi, S. Yazdani, R. Tavangar, B. Shakerifard & F. Khan MD	Fracture Toughness Evaluation of Powder Metallurgical ASP2030 High-Speed Steels Using Flexural Specimens and Finite Element Method	Strength of Materials, 2023	https://link.springer.com/article/10.1007/s11223-023-00482-y
4	A. Firouzi, R. Tavangar, B. Shakerifard, Sasan Yazdani, F. Khan MD	Austempering of PM HSS ASP2030 for improved fracture toughness,	Metallurgical Research and Technology, 2022.	https://www.metallurgical-research.org/articles/metal/abs/2022/02/metal220002/metal220002.html
5	S. Mishra, MD. F. Khan S.K. Panigrahi	A crystal plasticity based approach to establish role of grain size and crystallographic texture in the Tension–Compression yield asymmetry and strain hardening behavior of a Magnesium–Silver–Rare Earth alloy	Journal of Magnesium and Alloys, 2021	https://www.sciencedirect.com/science/article/pii/S2213956721002383
6	B. Faraz, S. Sadeghi-Kanani, T. Saeid, F. Khan MD	Influence of ultrasonic vibration on the microstructure and texture evolution of AZ91 magnesium alloy during ultrasonic-assisted friction stir welding,	World of Welding, 2021	https://link.springer.com/article/10.1007/s40194-021-01157-5
7	K. Ankur, MD. F. Khan, SK Panigrahi, GP Chaudary	Microstructural evolution and corrosion behaviour of a friction stir processed QE22 magnesium alloy,	Corrosion Reviews, 2021	https://www.degruyter.com/document/doi/10.1515/correv-2020-0083/html

8	S. Emami, S. Sadeghi-Kanani, T. Saeid, F. Khan MD	Dissimilar friction stir welding of AISI 430 ferritic and AISI 304L austenitic stainless steels	Archives of Civil and Mechanical Engineering, 20 2020	https://link.springer.com/article/10.1007/s43452-020-00138-7
9	MD. F. Khan, GM Karthik S.K. Panigrahi, GD Janaki Ram	Friction stir processing of QE22 magnesium alloy to achieve ultrafine-grained microstructure with enhanced room temperature ductility and texture weakening	Materials Characterization. 2019	https://www.sciencedirect.com/science/article/abs/pii/S1044580318320680
10	MD. F. Khan and S.K. Panigrahi	Achieving excellent superplasticity in an ultrafine-grained QE22 alloy at both high strain rate and low-temperature regimes	Journal of Alloys and Compounds.2018	https://www.sciencedirect.com/science/article/abs/pii/S0925838818307898
11	MD. F. Khan and S.K. Panigrahi	Achieving excellent thermal stability and very high activation energy in ultrafine- grained magnesium silver rare earth alloy prepared by friction stir processing	Materials Science Engineering A.2016	https://www.sciencedirect.com/science/article/abs/pii/S0921509316309911
12	MD. F. Khan and S.K. Panigrahi	Age hardening, fracture behavior and mechanical properties of QE22 Mg alloy	Journal of Magnesium and Alloys. 2015	https://www.sciencedirect.com/science/article/pii/S2213956715000584
13	Jaseem, R. Jose Immanuel, P.N. Rao, MD. F. Khan, B.N. Sahoo, S.K. Panigrahi, M. Kamaraj	Synergetic effect of cryorolling and post-roll aging on simultaneous increase in wear resistance and mechanical properties of an Al-Cu alloy	Journal of Tribology. 2018	https://asmedigitalcollection.asme.org/tribology/article-abstract/140/6/061607/383844/Synergetic-Effect-of-Cryorolling-and-Postroll
14	B.N. Sahoo, MD. F. Khan, S. Babu, S.K. Panigrahi, G.D.J. Ram	Microstructural modification and its effect on strengthening mechanism and yield asymmetry of in-situ TiC-TiB ₂ / AZ91 magnesium matrix composite	Materials Science and Engineering. A. 2018	https://www.sciencedirect.com/science/article/abs/pii/S0921509318304039
15	S. Meenia, MD. F. Khan, S. Babu, R.J. Immanuel, S.K. Panigrahi, G.D. Janaki Ram	Particle refinement and fine-grain formation leading to enhanced mechanical behaviour in a hypo-eutectic Al-Si alloy subjected to multi-pass friction stir processing	Materials Characterization. 2016	https://www.sciencedirect.com/science/article/abs/pii/S1044580316300110
16	MD. Faseeulla Khan, G. Sharma, D.K. Dwivedi	Weld-bonding of 6061 aluminium alloy	International Journal of Advanced Manufacturing Technology. 2015	https://link.springer.com/article/10.1007/s00170-014-6670-1
17	P.R. Guru, MD. Faseeulla Khan, S.K. Panigrahi, G.D.J. Ram	Enhancing strength, ductility and machinability of a Al-Si cast alloy by friction stir processing	Journal of Manufacturing Process. 2015	https://www.sciencedirect.com/science/article/abs/pii/S1526612515000080

18	MD. Faseeulla Khan, D.K. Dwivedi	Mechanical and metallurgical behavior of weld-bonds of 6061 aluminum alloy	Materials and Manufacturing Process. 2012	https://www.tandfonline.com/doi/full/10.1080/10426914.2011.602788
19	MD. Faseeulla Khan, D.K. Dwivedi, S. Sharma	Development of response surface model for tensile shear strength of weld-bonds of aluminium alloy 6061 T651	Materials & Design. 2012	https://www.sciencedirect.com/science/article/abs/pii/S026130691100361X
20	Vibhor Rajoria, Gurpreet Naina, S. Vijayan, C. Hariram Prasad, R. Damodaram, F. Khan MD	Development of SS 304L Composite Coatings on Mild Steel Substrate using Friction Surfacing Technique and Wear Characterization	ICEMMM 21, Chennai, India, 15-17 Dec 2021 (accepted for conference proceedings in Materials Proceedings Today)	https://www.sciencedirect.com/science/article/pii/S2214785322020156
21	MD. F. Khan, S.K. Panigrahi	Microstructure and texture evolution of a friction stir processed magnesium alloys,	NanoSPD7, Sydney, Australia, July 2017.	
22	B.N. Sahoo, MD. F. Khan, S.K. Panigrahi	Potential of friction stir welding/processing on enhancing structural efficiency of Magnesium alloys	IIW Chennai Chapter, Chennai, October 2017.	
23	MD. F. Khan, B.N. Sahoo, S.K. Panigrahi	Startegies to reduce tension-compression yield asymmetry in magnesium alloys,	ICAMMP-IV, IIT Kharagpur, India, November 2016.	
24	MD. F. Khan, G. Racineux, S. Marya, S.K. Panigrahi	Influence of friction stir processing on material flow behavior and microstructural modification of a Al-Si cast alloy	International Conference Friction Based Process, IISC Bangalore, September 2014: pp. 3–7.	
25	MD. Faseeulla. Khan, D.K. Dwivedi, P.K. Ghosh	Studies on the effect of process parameters on the shear performance of joints of aluminium alloy produced by adhesive joining, spot welding and weld-bonding.	Proc. 36th Int. MATADOR Conf., Springer London, Manchester, Lancashire, UK, 2010:	https://link.springer.com/chapter/10.1007/978-1-84996-432-6_66

Language Proficiency:

1. English
2. Hindi
3. Urdu
4. Telugu
5. Tamil