FACULTY INFORMATION

PERSONAL INFORMATION		
Name	Dr.S Shashi Kumar	
Designation	Associate Professor	
Official Email ID	s.shashikumar@jainuniversity.ac.in	
Academic Experience	12.5	
Industry Experience	Nil	
Core Discipline	Mechanical Engineering	
Specialization	Welding Technology	
Research Interest	Friction stir welding, Friction Stir Processing, Friction Surfacng, Additive Manufacturing, Metal Matrix Composites, Laser beam Welding, Metallic Foams	

PROFESSIONAL QUALIFICATION		
Qualification / Discipline (Start with UG degree)	**Year of Passing**	**Institution**
B.E (Mechanical)	2004	BMS College of Engineering, Bangalore
M.E. (Heat Power Engineering)	2009	Coimbatore Institute of Technology, Coimbatore
Ph.D. (Mechanical) Welding Technology	2018	PSG College of Technology, Coimbatore

MEMBERSHIP OF PROFESSIONAL BODIES		
Professional Society	**From Year**	**Nature of Membership**
Member of Institution of Engineers (M.I.E)	2019	Life

SUMMARY OF RESEARCH PUBLICATIONS

INTERNATIONAL JOURNALS (SCI / SCIE)

Journal Name	Date, Volume & Issue No (From the Latest)	Paper Title
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2023 (1-14)	Effect of Travel speed on the Microstructure and Mechanical Properties of Laser Beam Welded Nitronic-50 Stainless Steel Joints
Journal of Adhesion Science and Technology	36 (16) (2021) 1707-1726	Predicting the ultimate tensile strength and wear rate of aluminium hybrid surface composites fabricated via friction stir processing using computational methods
Surface Topography: Metrology and Properties	9 (2021) 045019	Mechanical, Metallurgical and Tribological Properties of Friction Stir Processed Aluminium Alloy 6061 Hybrid Surface Composites
Measurement	2020, 107813	Effect of tool tilt angle on weld joint properties of friction stir welded 316L stainless steel
Measurement	137 (2019) , 257-271.	Identifying the Optimized FSW process parameters for maximizing the tensile strength of Friction stir welded 316 L austenitic stainless steel joints
Welding in the World	63 (2019) 137-150	Effect of Welding speed on Mechanical and microstructural properties of Friction stir welded 316 L stainless steel joints
Materials Performance and Characterization, ASTM Journal	8(4) 676-689	Friction Stir Welding of AISI 316L Stainless Steels; Mechanical and Microstructural characterization
Journal of Material Processing Technology	254 (2018) pp. 79-90	Microstructure and Mechanical properties of friction stir welded AISI 316L austenitic stainless steel
International Journal of Refractory Metals and Hard materials	58 (2016) pp.196 -205	Influence of tool material on Mechanical and microstructural properties of friction stir welded 316L stainless steel
International Journal of Advanced Manufacturing Technology	86 (9-12) 2373-2392	Performance analysis of dissimilar friction stir welded aluminium alloy AA5052 and HSLA steel butt joints using response surface method
Archives of Civil and Mechanical Engineering	15: 48-56 · September 2015	Influence of tool traverse speed on the characteristics of dissimilar friction stir welded aluminium alloy, AA5052 and HSLA steel joints
Welding Journal	94 (9):291s-300s	Friction stir welding of aluminium alloy AA5052 and HSLA steel: Mechanical and microstructural characterization of dissimilar friction stir welded butt joints
Materials Science and Engineering A	639, 2015, pp. 219-233	Effect of Tool Axis Offset and Geometry of Tool Pin Profile on the Characteristics of Friction Stir Welded Dissimilar Joints of Aluminium Alloy AA5052 and HSLA Steel
Applied Mechanics and Materials	787 (2015) pp 381-385	An Assessment on Mechanical and Metallurgical properties of Friction stir Welded 316 L stainless steel
Applied Mechanics and Materials	592 - 594:43 - 47 · July 2014	An Assessment on Friction Stir Welding of High Melting Temperature Materials
Materials Science Forum	830-831:278-282 ·September 2015.	Study on Dissimilar Butt Joining of Aluminium Alloy, AA5052 and High Strength Low Alloy Steel through a Modified FSW Process
Materials Science Forum	830-831 (2015) pp 314-318	Effect of cooling rate on Mechanical and Microstructural Characterization of Friction Stir Welded 316L stainless steel joints

SUMMARY OF CONFERENCES PARTICIPATED

INTERNATIONAL CONFERENCES

Name of the Conference	Organizer, Place, Paper Title	Year
Proceedings of International Colloquium on Materials, Manufacturing and Metrology (ICMMM 2014), IIT Madras	Investigation on Microstructure and Microhardness of Friction Stir Welded 316 L Stainless steel Joints	2014
Proceedings of Processing and Fabrication of Advanced Materials (PFAM) XXIII Vol. 2, IIT Roorkee,	Friction Stir Welding of 316 L stainless steel – Microstructure and Mechanical properties	2014
International Symposium on recent trends in welding technology by Welding Research Institute (WRI) and Indian Welding Society (IWS), Mumbai	Effect of Heat Input on Mechanical and Microstructural properties of Friction Stir (FS) welded 316 L stainless steel	2014
International conference on sustainable energy resources,materials and technologies, ISERMAT 2015	An Assessment on Mechanical and Metallurgical properties of Friction stir Welded 316 L stainless steel	2015
ICAMPS 2015,Organized by Indian Institute of Metal, Trivandrum	Effect of cooling rate on Mechanical and Microstructural Characterization of Friction Stir Welded 316L stainless steel joints	2015
International Seminar on Recent Advances in welding and Non-Destructive Testing	Tool materials for friction stir welding of high temperature materials – a review	2013
International Mechanical Engineering Congress (IMEC 2014), NIT Trichy	An assessment on friction stir welding of high melting temperature materials	2014
International welding symposium IWS2K14, Mumbai	Friction stir welding of dissimilar aluminium alloy AA5052H32 and high strength low alloy steel IRSM42-97 butt joints'	2014

Third International Conference on Processing and Fabrication of Advanced Materials (PFAM XXIII, 2014), IIT Roorkee	Mechanical properties and microstructural characteristics of friction stir welded dissimilar AA5052H32 aluminium alloy and IRSM42-97 micro alloy steel butt joints	2014
International symposium for research scholars, ISRS2014, IIT Madras	The effect of interface position and geometry of tool pin on the performance of friction stir welded dissimilar aluminium alloy, AA5052H32 and HSLA steel, IRSM42-97 butt joints	2014
International Conference on Advanced Materials and Manufacturing for Strategic Sectors (ICAMPS 2015), Thiruvananthapura	Friction stir dissimilar butt welding of aluminium alloy, AA5052 and high strength low alloy steel using a modified FSW process	2015
International Workshops Conferences and Expo on Military and Marine Applications 2015 (IWCEM 2015), Pune	Influence of axial pressure on the characteristics of friction stir dissimilar butt welded aluminium alloy, AA5052 and HSLA steel	2015
International Conference on Cutting Welding and Surfacing, Indian Welding Society	Effect of tool tilt angle on the characteristics of dissimilar friction stir welded aluminium alloy AA5052 and HSLA steel butt joints'	2015
International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021) organised by IIT Ropar, Punjab, India	Effect of Defocus distance on Mechanical and Microstructural Characterization of Laser Beam Welded Nitronic-50 (XM-19) Stainless steel"	2021
International Conference on Advanced Materials and Mechanical Characterization" (ICAMMC 2021, 2- 4th December 2021) organised by SRM IST, India.	Effect of Frequency Modulation on Mechanical and Microstructural Characterization of Laser Beam Welded Nitronic-50 (XM-19) Stainless steel	2021
Department of Physics and Nanotechnology and Department of Mechanical Engineering, SRM Institute Of Science And Technology in association with the Indian Institute Of Science (IISc), Indian Institute of Technology (IIT) Delhi, IIT Madras, IIT Hyderabad, IIT Indore, Indian Institute Of Metals Chennai Chapter, ASM International Chennai Chapter, Indian Ceramic Society, Indian Physics Association, and American Ceramic Society India Chapter.	Synthesis and Characterization of HEAs: Enhancing Mechanical and Tribological properties of FSPed aluminium based HEAs for aerospace applications	2021

INTERNATIONAL BOOKS PUBLISHED

Name of the Book	Year	ISBN NUMBER
An Insight to friction stir welding of AISI 316L stainless steel	2021	978-613-8-94101-9 (https://www.amazon.co.uk/Insight-Friction-Welding-Stainless-Steel/dp/6138941012)

AWARDS / HONORS / ACHIEVEMENTS

Nature	Year	Awarding Institution
Reviewer of leading SCI/SCIE Journals	From 2019 onwards	Elsevier, Springer, Taylor and Francis Publishing Agencies
Best paper Award	2021	SRM Institute of Science and Technology, Kattankulathur
Best paper Award	2015	SSN College of Engineering, Chennai
Qualified GATE	2007	IIT Kanpur

PATENTS

Name of the Patent	Year	Description
A tool for Friction Stir Welding	2020	Patent Application number: 201841036172

PAST POSITIONS HELD BEFORE PRESENT ASSIGNMENT

Designation	From - To	Institution / Organization
Assistant Professor	June 2009- May 2013	SRM Institute of Science and Technology, Kattankulathur
Research Associate	May 2013- August 2015	Coimbatore Institute of Technology, Coimbatore
Assistant Professor	June 2016- May 2017	Sri Krishna College of Engineering and Technology, Coimbatore
Assistant Professor	Jan 2018 - May 2020	SRM Institute of Science and Technology, Kattankulathur

POSITIONS HELD IN THE PRESENT ORGANIZATION

Designation	From - To	Institution / Organization
Associate Professor	JULY 2020- till the date	Jain University (school of Engineering & Technology)

RESEARCH GUIDANCE

Total no. of students Guided	Ph.D. (Guiding)	M.Tech
NIL	3	Nil