Dr. YOGESHA. K. K.

Associate Professor

CONTACT

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Mysuru, Karnataka

Professional Experiences:

Teaching: 26Years

Industry: 01 Years

Research: 03Years

CoursesTaught:

I C engines,
Automotive engineering,
Hybrid Vehicles,
Mechanical engineering science,
Computer aided engineering drawing,
Machine drawing,
Computer aided machine drawing,
Material science and metallurgy,
Manufacturing process 1,2,3,
Fluid mechanics,
Foundry technology,
SQC,
Non-destructive testing,

ABOUT ME

My primary research interests are in the field of Material processing and Characterization, preparation of bulk nanostructured metals and alloys and nano-composites and their Fatigue and Fracture studies. I have received the best research article award (**US $3000**) from **American Society of Metals, USA** in the year 2016

RESEARCH INTERESTS:

Material processing and Characterization.

EDUCATION:

- Ph.D - Mechanical Behaviour Of Ultrafine Grained 5052 Al Alloy Processed By SPD
  Indian Institute of Technology, Roorkee.
  Year of Graduation : 2017
- M.E/M.Tech. - Production Engineering System Technology,
  The National Institute of Engineering, Mysore.
  Year of Graduation : 2002

PUBLICATIONS

Publications:(International Journals)

1. Investigation of Anisotropic Properties of Al 5052 Alloy Deformed by Cryorolling and Cryo-cross Rolling R Pant, A Joshi, S Gairola, B Hulugappa, KK Yogesha, Metallography, Microstructure, and Analysis, 1-10, 2023

2. Strain Hardening Behavior and Microscopic Fracture Mechanism in Multidirectional Cryoforged Al 2014 Alloy, A Joshi, KK Yogesha, R Jayaganthan, S Chamoli, Journal of Materials Engineering and Performance, 1-25, 2023

3. Microstructure Evolution and Fracture Toughness Behaviour of Cryorolled LM6 Al Alloy
AK Singh, A Joshi, RK Ravi, PK Pant, MK Pathak, KK Yogesha, Key Engineering Materials 941, 83-89, 2023

4. Effect of Different Rolling Techniques on Fatigue Crack Propagation in 5052 Al Alloy
KK Yogesha, A Joshi, A Raja, R Jayaganthan, R Verma, Metallography, Microstructure, and Analysis 12 (1), 62-73, 2023

5. Fatigue crack growth behavior of Al 2014 alloy subjected to cryogenic rolling and post-rolled annealing, A Joshi, KK Yogesha, S Chamoli, R Jayaganthan, GM Owolabi, Kovove Mater 61, 285-305, 2023

6. Studies on Tensile Fracture and Two Body Wear Behavior of Al/Si3N4–Al2O3 Nanocomposites Prepared by Powder Metallurgical Route, P Kothiyal, A Joshi, KKS Mer, KK Yogesha, Metallography, Microstructure, and Analysis 11 (4), 580-594, 2022

7. Analytical Study of Roughness on Tilted Pad Thrust Slider Bearing Improved by the Boundary Slippage GK Kalavathi, M Somashekhar, MG Vasundhara, KK Yogesha, Applied Mechanics and Materials 895, 70-75, 2019

8. High-cycle fatigue behaviour of ultrafine grained 5052 Al alloy processed through cryo-forging KK Yogesha, A Joshi, Raviraj, A Raja, R Jayaganthan, Materials Processing Fundamentals 2019, 153-161, 9, 2019

9. Effect of cryo groove rolling followed by warm rolling (CGW) on the mechanical properties of 5052 Al alloy KK Yogesha, A Joshi, N Kumar, R Jayaganthan, Materials and Manufacturing Processes 32 (12), 1336-1344, 32 , 2017

10 Fatigue behavior of ultrafine-grained 5052 Al alloy processed through different rolling methods KK Yogesha, A Joshi, R Jayaganthan Journal of Materials Engineering and Performance 26, 2826-2836, 20, 2017

FDP/STTP/ WORKSHOPS/CONFERENCES/SEMINARS ATTENDED:

11. Influence of cryorolling and followed by annealing on high cycle fatigue behavior of ultrafine grained Al 2014 alloy A Joshi, KK Yogesha, R Jayaganthan, Materials Characterization 127, 253-271, 35, 2017

12. Influence of annealing on microstructural evolution, precipitation sequence, and fracture toughness of cryorolled Al–Cu–Si alloy, A Joshi, KK Yogesha, N Kumar, R Jayaganthan, Metallography, Microstructure, and Analysis 5, 540-556, 21, 2016

13. Mechanical properties and microstructural evolution in Al 2014 alloy processed through multidirectional cryoforging , A Joshi, N Kumar, KK Yogesha, R Jayaganthan, SK Nath, Journal of Materials Engineering and Performance 25, 3031-3045, 60, 2016

14. A Comparative study on tensile and fracture behavior of Al–Mg alloy processed through cryorolling and cryo groove rolling , KK Yogesha, N Kumar, A Joshi, R Jayaganthan, SK Nath Metallography, Microstructure, and Analysis 5, 251-263, 26, 2016

Conferences/Seminars attended:

Sl. No.	Details ofConferences/Seminars/ Workshops	PresentedPapers(Titleof thePaperPresented)	Dates (From–To)	Sponsoring Agency
1.	IIM-NMD-ATM 2015	Mechanical Behavior of 5052 Al–Mg Alloy Processed Through Cryorolling	13th to 16th Nov, 2015	PSG Tech. Coimbatore
2.	IIM-NMD-ATM 2015	Tensile and Fracture properties of Al 2014 alloy processed throughmultidirectional Forging	13th to 16th Nov, 2015	PSG Tech. Coimbatore
3.	ICMR 2016	Effect of deformation temperature on mechanical properties and microstructural evolution in Al 2014 alloy processed through multidirectional Cryoforging	21– 23 Jun 2016	IISc Bangalore
4.	ICFDFM 2016	High Cycle Fatigue Strength of 5052 Al-Mg Alloy Processed by Cryorolling	28th to 30th Sep, 2016	IISc Bangalore
5.	ISAMEA-2017	Improvement of fatigue strength in ultrafine grained (UFG) 5052 Al alloy processed by cryo-groove rolling	24th to 25th Mar, 2017	NIE, Mysore
6.	ISAMEA-2017	Influence of Phosphorus Addition on Strength and Ductile Behavior of Fe based Alloy Processed through Powder Metallurgy (P/M) Route	24th to 25th Mar, 2017	NIE, Mysore
7.	ISAMEA-2017	Improvement of Fracture Toughness of Al 2014 Alloy Processed Through Cryorolling	24th to 25th Mar, 2017	NIE, Mysore
8.	ISAMEA-2017	Investigation of Mechanical and Fracture Behavior of Fine-Grained Ze41 Alloy	24th to 25th Mar, 2017	NIE, Mysore

9.	ICMAT 2017	Mechanical properties of 5052 Al alloy processed through cryogenic groove rolling	18th to 23rd June, 2017	MRS, Singapore
10.	ICMAT 2017	High cycle fatigue behavior of bulk UFG Al 2014 alloy processed through cryorolling	18th to 23rd June, 2017	MRS, Singapore
11.	ICMAT 2017	Effect of Secondary Phase Distribution on Mechanical Behavior of Bulk Nanostructured Mg-4Zn-4Gd Alloy.	18th to 23rd June, 2017	MRS, Singapore
12.	AMPCO 2017	Structure Property correlations in Multi-directional Cryoforged (MDCFed) Al 2014 Alloy.	30th Nov to 2nd Dec 2017	I I T Roorkee
13.	ISAM 2017	Mechanical Behaviour of Ultrafine Grained (Bulk Nano Structured) 5052 Al Alloy Processed through Multi Directional Forging	27th December 2017	SJCE Mysore
14.	ISAM 2017	Influence of phosphide microstructure on the tribological properties of iron based alloys through hot powder forging route	27th December 2017	SJCE Mysore
15.	ISAM 2017	EBSD analysis of crack tip plasticity	27th December 2017	SJCE Mysore
16.	IIM-NMD-ATM 2018	Tensile and Fracture Behavior of 5052 Al Alloy Processed through Cryo-Forging	14th to 16th Nov 2018	IIM, Kolkata

OTHER INFORMATION:
(Patents Filed/ Membership/Administration/Consultancy/Evaluator/Research Guidance and funding/Awards/Key Roles/Invited Talks Delivered, etc)

Sl. No.	Type of Membership	Professional Bodies/Organizations/ University Bodies/Others	Period of Membership
1	LM-ISTE, LM -44547	The Indian Society for Technical Education	Life Member
2	LM-1646154	The Institute of Engineers India	Life member
3	LM-IIM-56533	The Indian Institute of Metals	Life Member