

Department of Mechanical Engineering

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Mechanical Engineering

Overall Summary Sheet (2022 – Till Date)

| Sr. No. | Research Category | 2022 | 2023 | 2024 | 2025 | 2026 | Total |
|---------|-------------------------------------|------|------|------|------|------|-------|
| 1 | SCI/WOS Publications | 03 | 04 | 04 | 03 | 01 | 15 |
| 2 | Scopus Journal Articles | 04 | 05 | 08 | 05 | 01 | 23 |
| 3 | Scopus Conference Papers | - | 03 | 02 | 04 | - | 09 |
| 4 | Scopus Book / Book Chapters | - | - | 01 | - | - | 01 |
| 5 | Patents | - | 01 | 02 | - | - | 03 |
| 6 | Funded Research Projects | - | - | - | - | 02 | 02 |
| 7 | Consultancy Projects | - | - | - | - | - | - |
| 8 | Research MoUs | - | - | - | - | - | - |
| 9 | International Conferences Organized | - | - | - | - | - | - |

B.1 SCI/WOS Journal/Conference Publications

| S.N | Year | Faculty | Authors | Title | Name of Journal/Conference |
|-----|------|-----------------------------------|---|---|---|
| 1 | 2026 | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Comparative CFD analysis of heat transfer enhancement using NACA0021 and NACA2421 aerofoil inserts in turbulent pipe flow | Energy Sources Part A Recovery Utilization and Environmental Effects |
| 2 | 2025 | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Overview of the future perspective of aerofoil-based passive heat transfer enhancement | Engineering Research Express |
| 3 | | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | A chronological review of heat transfer enhancement using inserts in channel flows | Physica Scripta |
| 4 | | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Comparative analysis of aerobeats and aerofoil shapes for heat transfer enhancement in heat exchanger systems | ASME International Mechanical Engineering Congress and Exposition Proceedings Imece |
| 5 | 2024 | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | Numerical investigation of FGMs of various material distributions with discontinuities under localized loadings | Mechanics Based Design of Structures and Machines |
| 6 | | Dr. More, Satish R. | Wagh, S.V., More, S.R., Madhav, V.V.V., V, R., Siddiqui, M.I.H. | Effects of low-power laser hardening on the mechanical and metallurgical properties of biocompatible SAE 420 steel | Journal of Materials Research and Technology |
| 7 | | Dr. More, Satish R. | More, S.R., Menghani, J.V., Vyas, A. | Effect of Ni Addition on the Metallurgical and Mechanical Properties of WC – 10Co – 4Cr Laser Cladding Surfaces on Mild Steel | Metal Science and Heat Treatment |
| 8 | | Dr. Sapali, Shivalingappa Nagappa | Pal, J.S., Sapali, S.N., Deshmukh, P.W. | Estimation and analysis of exergy loss and performance evaluation of marine freshwater generating system | Journal of Thermal Engineering |
| 9 | 2023 | Dr. Khond, Anuj A. | Akash A. Deshmukh, Khond, A.A., Bhatt, J.G., Palikundwar, U.A. | Thermodynamic and Kinetic Studies of Glass-Forming Compositions in Ca– Mg–Cu Ternary Metallic Glasses | Glass Physics and Chemistry |
| 10 | | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | XFEM based thermo-elastic numerical analysis of FGMs with various discontinuities | Mechanics Based Design of Structures and Machines |
| 11 | | Dr. Digvijay Patil | Naik, M; Rivera, PC; Bilton, AM | Understanding the state of sanitation in India through qualitative methods and aseptic tank sensing device | Proceedings of ASME 2023 international design engineering technical conferences |
| 12 | | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | Experimental Investigation of Repair of Plate with Edge and Center Crack by Surface Bounded Composite Patch | International Journal of Steel Structures |
| 13 | 2022 | Dr. Khond, Anuj A. | Deshmukh, A.A., Khond, A.A., Bhatt, J.G., Palikundwar, U.A. | Local structure order around Ni in Hf–Cu–Ni glassy ribbons: XANES and EXAFS study at Ni K–edge | Physica B Condensed Matter |

| | | | | |
|----|--------------------|--------------------------------|---|--|
| 14 | Dr. Digvijay Patil | Khan, R; Patil, D and Kumar, R | Development of High Performance Vertical Falling Film Plastic Dehumidifier Exploiting Surface Modification Technique | Journal of solar energy engineering transactions of the ASME |
| 15 | Dr. More, Satish R | Kanakavalli, P.B., More, S.R. | Determining optimal parameters using Taguchi's design of experiments (DOE) for improving the quality of biogas generation process | Engineering Research Express |

B.2. Scopus Journal Publications

| S.N | Year | Faculty | Authors | Title | Name of Journal |
|-----|---|---------------------|---|---|---|
| 1 | 2026 | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Comparative CFD analysis of heat transfer enhancement using NACA0021 and NACA2421 aerofoil inserts in turbulent pipe flow | Energy Sources Part A Recovery Utilization and Environmental Effects |
| 2 | 2025 | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Overview of the future perspective of aerofoil-based passive heat transfer enhancement | Engineering Research Express |
| 3 | | | Jadhao, R.R., Chitragar, P., Kamble, D. | A chronological review of heat transfer enhancement using inserts in channel flows | Physica Scripta |
| 4 | | | Prof. Gadge Nilima Baliram | Bawane, R.K., Gadge, N.B., Bawane, D.K., Gadge, P.B. | Experimental study on performance of diesel engines operating under different fuel injection pressures using Calophyllum methyl ester with and without doping of nickel-oxide |
| 5 | | Dr. Khond, Anuj A. | Khond, A., Charkha, P., Tiwari, H. | Synthesis of Al-AlN metal matrix composites by powder metallurgy route | Engineering Research Express |
| 6 | | Pande, Rushikesh S. | Pande, R.S., Bachchhav, B.D. | Effect of MoS2 nano-additive size and concentration on the wear performance of crude Jatropa-based bio-lubricant | World Journal of Engineering |
| 7 | | 2024 | Prof. Rohit Jadhao | Jadhao, R., Mahobiya, V., Dhore, P.B., Kale, M., Charkha, P. | Experimental Analysis of Mechanical Tests on a Plate Composed of Banana Fibre |
| 8 | Kale, M., Sherje, N., Dhore, P., ... Gorane, P.S., Jadhao, R. | | | Design & Development of Automatic Pesticide Spraying Machine | Advances in Nonlinear Variational Inequalities |
| 9 | Prof. Birajdar, Vishal V. | | Khetre, S.N., Birajdar, V.V., Ovhal, M., Pachpute, S. | Optimization of Manufacturing Processes using Artificial Intelligence and Machine Learning | Nanotechnology Perceptions |
| 10 | Prof. Khetre, Subhash | | Khetre, S., Bongale, A., Kumar, S., Ramesh, B.T. | Temperature Analysis in Cubic Boron Nitrate Cutting Tool during Minimum Quantity Lubrication Turning with a Coconut-Oil-Based Nano-Cutting Fluid Using Computational Fluid Dynamics | Coatings |
| 11 | Dr. Mishra, Kundan | | Mishra, K., Lal, A., Sutaria, B.M. | Numerical investigation of FGMs of various material distributions with discontinuities under localized loadings | Mechanics Based Design of Structures and Machines |
| 12 | Dr. More, Satish R. | | Wagh, S.V., More, S.R., | Effects of low-power laser hardening on the mechanical and metallurgical properties of | Journal of Materials Research and |

| | | | | | |
|----|------|---|--|--|---|
| | | Madhav, V.V.V., V, R., Siddiqui, M.I.H. | biocompatible SAE 420 steel | Technology | |
| 13 | | Dr. More, Satish R. | More, S.R., Menghani, J.V., Vyas, A. | Effect of Ni Addition on the Metallurgical and Mechanical Properties of WC – 10Co – 4Cr Laser Cladding Surfaces on Mild Steel | Metal Science and Heat Treatment |
| 14 | | Dr. Sapali, Shivalingappa Nagappa | Pal, J.S., Sapali, S.N., Deshmukh, P.W. | Estimation and analysis of exergy loss and performance evaluation of marine freshwater generating system | Journal of Thermal Engineering |
| 15 | 2023 | Prof. Gadge Nilima Baliram | Bawane, R.K., Gadge, N.B., Bawane, D., Gadge, P. | Diesel engine performance with nickel-oxide-doped Calophyllum oil biodiesel under varying injection timings | International Journal of Ambient Energy |
| 16 | | Dr. Khond, Anuj A. | Akash A. Deshmukh, Khond, A.A., Bhatt, J.G., Palikundwar, U.A. | Thermodynamic and Kinetic Studies of Glass-Forming Compositions in Ca– Mg–Cu Ternary Metallic Glasses | Glass Physics and Chemistry |
| 17 | | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | Experimental Investigation of Repair of Plate with Edge and Center Crack by Surface Bounded Composite Patch | International Journal of Steel Structures |
| 18 | | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | XFEM based thermo-elastic numerical analysis of FGMs with various discontinuities | Mechanics Based Design of Structures and Machines |
| 19 | | Dr. Yadav, Vikas | Chaudhary, S., Dangi, S., Yadav, V., Suri, N.M., Tyagi, M. | Effect of preheating on the mechanical and high temperature tribological behaviour of reusing marble dust with aluminium composite | Advances in Materials and Processing Technologies |
| 20 | 2022 | Dr. Biradar, Madagonda K. | Biradar, M.K., Parmar, D.N., Yadav, A.K. | CFD and exergy analysis of subcritical/supercritical CO ₂ based naturally circulated solar thermal collector | Renewable Energy |
| 21 | | Dr. Khond, Anuj A. | Deshmukh, A.A., Khond, A.A., Bhatt, J.G., Palikundwar, U.A. | Local structure order around Ni in Hf–Cu–Ni glassy ribbons: XANES and EXAFS study at Ni K-edge | Physica B Condensed Matter |
| 22 | | Dr. More, Satish R | Kanakavalli, P.B., More, S.R. | Determining optimal parameters using Taguchi's design of experiments (DOE) for improving the quality of biogas generation process | Engineering Research Express |
| 23 | | Dr. More, Satish R | More, S.R., Bhatt, D.V., Menghani, J.V., Jagtap, R.K. | CFD Simulation and Experimental Results Validation of Slurry Erosion Wear using Slurry Pot Test Rig | Trends in Sciences |

B.3. Scopus Conference Publications

| S.N | Year | Faculty | Authors | Title | Name of Journal |
|-----|------|-----------------------------------|--|---|---|
| 1 | 2025 | Prof. Rohit Jadhao | Jadhao, R.R., Chitragar, P., Kamble, D. | Comparative analysis of aerobeeds and aerofoil shapes for heat transfer enhancement in heat exchanger systems | ASME International Mechanical Engineering Congress and Exposition Proceedings IMECE |
| 2 | | Prof. Gadge Nilima Baliram | Bawane, R.K., Gadge, N., Shelke, G.N., Bawane, D. | Injector Deposition and Behavior Change of Diesel Engine Fueled with Calophyllum Oil Biodiesel Blend under 150 Hrs Endurance Test | SAE Technical Papers conference |
| 3 | | Prof. Pati, Rahul Arun | Pati, R.A., Deore, E. | Study of tribological performance of eutectic al-si alloy composite enhanced with combination of kyanite and graphite reinforcement | ASME International Mechanical Engineering Congress and Exposition Proceedings IMECE |
| 4 | | Dr. Sapali, Shivalingappa Nagappa | Kanaskar, A.S., Sapali, S.N., Haribhakta, V.K., Sati, S.C., Vaidya, S. | Cushioning Design for a Load Coupled Hydraulic Actuator Using Multi-body Dynamics Simulation Approach | Lecture Notes in Mechanical Engineering |
| 5 | 2024 | Dr. Khond, Anuj A. | Khond, A., Charkha, P., Tiwari, H. | Synthesis and characterization of Al-AIN composite | Materials Today Proceedings |
| 6 | | Dr. Sapali, Shivalingappa Nagappa | Kanaskar, A.S., Sapali, S.N., Haribhakta, V.K., Sati, S.C. | A Review on Cushioning Characteristics in High-Speed Hydraulic Actuators | Journal of Physics Conference Series |
| 7 | 2023 | Prof. Jadhav, Dhanaji R. | Pesode, P., Barve, S., Wankhede, S.V., Pawar, S.K., Jadhav, D.R. | Antibacterial Activities of Plasma Electrolytic Oxidation Coated Magnesium Alloys | AIP Conference Proceedings |
| 8 | | Prof. Jadhav, Dhanaji R. | Pesode, P., Barve, S., Wankhede, S.V., Jadhav, D.R., Pawar, S.K. | Titanium alloy selection for biomedical application using weighted sum model methodology | Materials Today Proceedings |
| 9 | | Dr. Mishra, Kundan | Mishra, K., Lal, A., Sutaria, B.M. | Stochastic Fracture Analysis of FGM Plate with Edge Crack Under Mechanical Loadings using XFEM | Lecture Notes in Mechanical Engineering |

B.4. Scopus Book/Book Chapters

| S.N | Year | Faculty | Authors | Title | Name of Publisher |
|-----|------|----------------------|---|--|-------------------|
| 1 | 2024 | Prof. Subhash Khetre | Subhash Khetre, Santosh Pachpute, Vishal Birajdar, and Milind Ovhal | Abrasive water jet machining of composites | De Gruyter Brill |

B.5. Patents

| S.N | Patent Application No | Status of Patent (Published/Granted) | Inventor/s Name | Title | Applicant/s Name |
|-----|-----------------------|--------------------------------------|---|---|--|
| 1 | 486384-001 | In Process 2026 | Prof. Parasappa Mali Dr. Satish More Prof. Dhanaji Jadhav Prof. Sandeep Gore | A rotatable multi-speciman fixture with indexing mechanism for slurry jet erosion equipment | Prof. Parasappa Mali Dr. Satish More Prof. Dhanaji Jadhav Prof. Sandeep Gore |
| 2 | 425090-001 | Published 2024 | Mr. Subhash Khetre Dr. Aparna Pande Dr. Milind Ovhal Dr. Vishal Birajdar Dr. Santosh Pachpute | Intelligent e-vehicle charging station based on internet of things | Mr. Subhash Khetre Dr. Aparna Pande Dr. Milind Ovhal Dr. Vishal Birajdar Dr. Santosh Pachpute |
| 3 | 424989-001 | Published 2024 | Mr. Subhash Khetre Dr. Aparna Pande Dr. Vishal V Birajdar Dr. Milind Ovhal Dr. Santosh Pachpute | AI-based bio-fertilizer preparation device for agriculture | Mr. Subhash Khetre Dr. Aparna Pande Dr. Vishal V Birajdar Dr. Milind Ovhal Dr. Santosh Pachpute |
| 4 | 403496-001 | Published 2023 | Dr.Keshav Nandurkar, Dr. Mukund Kharde, Dr. Nanasheeb Gurule, Mr. Govind Dhage, Mr. Vishalsingh Rajput, Mr. Avinash Somatkar | Seed and fertilizer sprayer drone | Dr.Keshav Nandurkar Dr. Mukund Kharde Dr. Nanasheeb Gurule Mr. Govind Dhage Mr. Vishalsingh Rajput Mr. Avinash Somatkar |

B.6. Funded Research Projects (In Process)

| S.N | Principal Investigator | Co-principal Investigator | Amount | Funding Agency |
|-----|------------------------|---------------------------|----------|---|
| 1 | Dr. Satish More | Dr. Madagonda Biradar | 880000/- | Indian Knowledge System Division of MoE |
| 2 | Dr. Digvijay Patil | - | 49000/- | Foundation for ISHRAE Research Science and Technology |

The book explores new possibilities in the domain of Abrasive Water Jet Machining (AWJM) of composites. AWJM is a well industrialized process, but some parameters of AWJM process need to be precisely optimized in line with the properties of advanced materials (such as composites) to achieve superior machining characteristics. By incorporating AI and ML techniques, the AWJM process can become more adaptive and intelligent, leading to better consistency and quality in machining operation. The book also highlights the sustainability and greener approaches during machining which can lead to cost savings and improved efficiency in the long run. Further, the book combines theoretical insights with practical implications, offering valuable knowledge on optimizing the cut quality characteristics of AWJM process by integrating AI and ML techniques, and promoting sustainability in machining operations to researchers, engineers, and practitioners working in the domain of AWJM of Composites.

THE SERIES: ADVANCED COMPOSITES

The goal of *Advanced Composites* is the combined presentation of materials, manufacturing technology and engineering aspects of composites. This Series covers the complete range of multi scale composite materials, including nanocomposites, biocomposites, functional and smart composites, structural composites, gradient and layered composites, eco-composites, composites based in natural materials, etc. Current topics of interest include the physical and chemical properties, microstructural characterization of composites, design and manufacture of composites and structures, mechanical behaviour in use environments, testing and characterisation techniques, modelling and optimization methods, fracture, creep, tribology, machinability and performance of composites in service.

Advanced Composites is essential reference for academics, materials, physics, chemical researchers, mechanical and materials, biomedical engineers, professionals in composite-related industries.

ABRASIVE WATER JET MACHINING OF COMPOSITES
Edited by Sachin Salunkhe, Vikas Sisodia and J. Paulo Davim

DE GRUYTER

ABRASIVE WATER JET MACHINING OF COMPOSITES

EMPIRICAL AND ANALYTICAL MODELLING

*Edited by Sachin Salunkhe, Vikas Sisodia
and J. Paulo Davim*

ADVANCED COMPOSITES



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Subhash Khetre*, Santosh Pachpute, Vishal Birajdar, and Milind Ovhal

Chapter 12

An insight into the kerf taper, surface properties, and delamination in abrasive water-jet machining (AWJM) process

Abstract: Kerf taper and delamination are undesirable geometrical defects inherent to abrasive water-jet machining (AWJM) of layered fiber-reinforced polymer composites. This is mainly attributed to the characteristics of water-jet energy as well as the anisotropic nature of the material. This chapter presents the study about kerf taper, surface properties, and delamination in the AWJM process. AWJM is an emerging technology for material processing with distinct advantages such as the absence of no thermal distortion, high machining versatility, high flexibility, and small cutting forces. As a result, much remains to be learned about the process and technology, and most of the knowledge regarding abrasive water jet is considered to be classified. The aim of this chapter is to examine the AWJM process, parameters, working system, kerf taper, and optimization using ANN and machine learning.

Keywords: Abrasive water-jet machining (AWJM), kerf taper, optimization, ANN, machine learning, properties, material

12.1 Introduction

Abrasively propelled water-jet machining (AWJM) is an advanced manufacturing process that utilizes a high-velocity stream of abrasive-laden water to cut, shape, and machine various materials [1]. This process has gained significant attention in industrial applications due to its versatility, precision, and environmental friendliness. Within the realm of AWJM, several critical factors contribute to the overall efficiency and quality of the machining process. This introduction focuses on three key aspects [2] such as kerf taper, surface properties, and delamination. Kerf taper refers to the phenomenon where the cut width at the top of a workpiece is different from the cut width at the

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Santosh Pachpute, Department of Mechanical Engineering, D. Y. Patil University, Ambi, Talegaon Dabhade, Pune, Maharashtra, India

Vishal Birajdar, Milind Ovhal, Department of Mechanical Engineering, Nutan College of Engineering and Research, Talegaon Dabhade, Pune, Maharashtra, India

Proposal

THE INDIAN KNOWLEDGE SYSTEMS DIVISION OF MoE

भारतीयज्ञानसंवर्धनयोजना-7IKS COMPETITIVE RESEARCH PROPOSAL PROGRAM: 2026-2027
2026-27 IKS BG SAMVARDHAN YOJANA PROPOSAL COVER PAGE

(not included in page limit) Proposal title:

Lead Researcher (Principal Investigator):

Name: Dr. Satish R More

Email address: satish.more@nmiet.edu.in

Phone number: 9420892923

Academic rank: Associate Professor

Appointment type: Full Time

Physical work location: Nutan Maharashtra Institute of Engineering and Technology Talegaon Pune

Academic home department: Mechanical Engineering

Co-PI(s) (if any):

Name: Dr. Biradar Madagonda

Email address: madagonda.biradar@nmiet.edu.in

Phone number: 9545353232

Academic rank: Assistance Professor

Appointment type: Full Time

Physical work location: Nutan Maharashtra Institute of Engineering and Technology Talegaon Pune

Academic home department: Mechanical Engineering

Cooperator(s)/Collaborator(s) (if any): NA**Project Budget Amount: 880000/-**

I certify that I will lead the project and complete all the tasks outlined in the proposal. I certify that a Project completion report will be submitted at the end of the project and the funding support from IKS Division of MoE will be acknowledged in any publication resulting from this work.

Principal Investigator

Principal Investigator Printed Name:
Dr. Satish Rajdhar More

Date: 29/1/2026

FOUNDATION FOR ISHRAE, RESEARCH, SCIENCE, TECHNOLOGY (FIRST)

1103-04, 11th Floor, Chiranjiv Tower,

43, Nehru Place, New Delhi-110 019

Tel: 011 41635655

Proforma for Submission of Proposals for Student Research Project Grant – SRPG - Under Graduate - 2025-256to 'FIRST'

Please complete all of the information requested in the following tables. All Submissions must be submitted electronically in PDF format by e-mail at executive@ishraehq.in

Due Date : 15 Oct 2025

Late or incomplete applications will not be accepted.

I. GENERAL INFORMATION

| S.No | Item | Details |
|------|--|---|
| 1 | College Name and address | Nutan Maharashtra Institute of Engineering and Technology |
| 2 | Faculty Adviser /Guide Name (Name, Address, Mobile number and email) | Dr. Digvijay Ankush Patil |
| 3 | Is Faculty Adviser /Guide ISHRAE member? If yes, ISHRAE Membership Number | Yes 75194 |
| 4 | Principal of the College (Name, Address and email) | Dr. Pramod Patil NMIET, Talegaon Dabhade principal@nmiot.edu.in |
| 5 | Local ISHRAE Chapter Name and Address (Name, Address and email) | Nutan Maharashtra Institute of Engineering and Technology, Talegaon Dabhade digvijay.patil@nmiot.edu.in |
| 6 | ISHRAE Student Chair at the local chapter (Name, Address with Mobile number and Email) | Mr. Nilesh Gaikwad nilesh.gaikwad@pccoepune.org 9604700437 |
| 7 | Name of the project Mentor from ISHRAE Society | Nil |
| 8 | Title of the Project | Experimental Study on Composite Evaporative Cooling Pads with Novel Water Distributor for Enhanced Cooling Efficiency and Durability |
| 9 | Amount Requested | Rs. 49000/- |

IV. CERTIFICATE FROM THE LOCAL ISHRAE CHAPTER

The student project entitled- **“Experimental Study on Composite Evaporative Cooling Pads with Novel Water Distributor for Enhanced Cooling Efficiency and Durability”**, by our ISHRAE student members.

1. Ms. Dnyaneshwari Adinath Thorat (ISHRAE student membership ID: S002229)
2. Ms. Kartiki Deshmukh (ISHRAE student membership ID: S00132456)
3. Ms. Nikita Bhosale (ISHRAE student membership ID: S00132216)
4. Ms. Vaishnavi Sanjay Bhangre (ISHRAE student membership ID: S00133490)

of **Nutan Maharashtra Institute of Engineering and Technology, Talegaon Dabhade, Pune**, is submitted here with to the Project Coordinator, ITC – ISHRAE HQ, New Delhi.

We hereby certify that the above said project is worthy in HVAC & R field and may be considered for further scrutiny. If this project is selected for the grant, we ensure that the grant amount will be released based on the recommendation of SRPG committee.

We ensure that utilization certificate, state of expenditure, project completion report will be submitted to ISHRAE HQ on the successful completion of the Project.

Date: 14/10/2025

Place: Pune

Student Chair

Chapter President

Faculty Adviser/Guide



(Seal of the student chair)



(Seal of the Chapter President)

(Seal)

VI. ENDORSEMENT FROM THE HEAD OF THE INSTITUTION

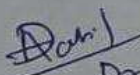
Project Title: Experimental Study on Composite Evaporative Cooling Pads with Novel Water Distributor

Certified that the institution welcomes the participation of **Ms. Dnyaneshwari Adinath Thorat, Ms. Kartiki Deshmukh, Ms. Nikita Bhosale and Ms. Vaishnavi Sanjay Bhangre** of **Third/Second year Mechanical Engineering Department** as the Principle Investigator/s (PI) for the above said project.

1. Certified that the equipment, other basic facilities and other administrative facilities as per the terms and conditions of the award of the Project, will be extended to the investigator(s) throughout the duration of the project.
2. The Institution shall ensure that financial and purchase procedures are followed as per the prevailing norms of the institution, within the allocated budget.
3. The Institution shall provide the Statement of Expenditure and the Utilisation Certificate of the grant as required by the ISHRAE in the prescribed format.
4. The grant for the proposal, if approved may be made in favour of

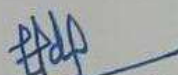
The Director, (Nutan Maharashtra Institute of Engineering and Technology)

- i. Institution Name as per Bank records: **Nutan Maharashtra Institute of Engineering and Technology**
- ii. Bank Account No.: **917010054972777**
- ii. IFSC Code: **UTIB0002137**
- iii. MICR Code: **411211036**
- iv. Bank Name: **Axis Bank**
- v. Bank Branch Address : **Talegaon Pune**


Dr. Digvijay Patil
Faculty Adviser/Guide of the students
Seal

Date: 14/10/2025
Place: **Talegaon Dabhade**




(Head of the Institution)
Seal

Director
Nutan Maharashtra Institute of Engineering & Technology
Talegaon Dabhade - 410507

PROJECT PREAMBLE BY GUIDE:

This project, titled “**Experimental Study on Composite Evaporative Cooling Pads with Novel Water Distributor**”, is designed to provide students with **hands-on research experience in the field of HVAC&R systems**, particularly focusing on **evaporative cooling technologies**.

Evaporative cooling offers a **low-cost and energy-efficient alternative** to conventional refrigeration-based cooling systems. However, conventional cooling pads suffer from **short service life, microbial growth, and uneven water distribution**, which reduces efficiency and increases maintenance. The proposed study introduces **composite pads made from durable plastic-natural fiber materials**, combined with a **novel water distributor**, to enhance **cooling efficiency, pad longevity, and overall system performance**.

The project aims to enable students to **integrate theoretical knowledge with practical experimentation**, including material selection, pad fabrication, flow distribution optimization, instrumentation, and data analysis. Students will also gain experience in **simulation, performance evaluation, and technical documentation**, aligning with ISHRAE’s mission to **promote research and innovation in HVAC&R**.



Dr. Digvijay Ankush Patil
SIGNATURE OF THE GUIDE :

SIGNATURE OF ISHRAE MENTOR:

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(Khond, Anuj A.)

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Identifiers

Web of Science ResearcherID: AAC-1591-2020

Published names

Khond, Anuj

Organizations

Nutan Maharashtra Inst Engn & Technol
National Institute of Technology (NIT System)

Visvesvaraya National Institute of
Technology, Nagpur

Subject Categories

Materials Science; Metallurgy &
Metallurgical Engineering; Physics;
Crystallography; Engineering

Profile summary

- 11** Total documents
- 11** Publications indexed in Web of Science
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- 0** Preprints
- 0** Dissertations or Theses
- 0** Non-indexed publications
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**Thermodynamic
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Compositions in Ca-Mg-Cu Ternary Metallic Glasses

Deshmukh, AA; Khond, AA; (...); Palikundwar, UA
Dec 2023
| GLASS PHYSICS AND CHEMISTRY
49(6), pp.604-616

Herein, we systematically studied the thermodynamic and

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2

Article Local structure order around Ni in Hf-Cu-Ni glassy ribbons: XANES and EXAFS study at Ni K-edge

Deshmukh, AA; Khond, AA; (...); Palikundwar, UA
Apr 1 2022
| PHYSICA B-CONDENSED MATTER

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Kinetics and phase formation during crystallization of Hf₆₄Cu₁₈Ni₁₈ amorphous alloy

Khond, A; Adil, S; (...);
Srivastav, AK
Feb 1 2021
| PHASE TRANSITIONS
94(2), pp.110-121

In this work, crystallization kinetics and phase formation of

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Tang, J
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64 Khond, Anuj A
63 Srivastav, Anil K
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Corrosion Studies of Hf₆₄Cu₁₈Ni₁₈ Metallic Glass in Acidic and Alkaline Media

Khond, A; Arya, SB; (...);
Srivastav, AK
Apr 2021
| TRANSACTIONS OF
THE INDIAN INSTITUTE
OF METALS
74(4), pp.949-956

In the present paper, the
corrosion behavior of
Hf-rich Hf₆₄Cu₁₈Ni₁₈

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Kinetic Approach to Determine the Glass-Forming Ability in Hf-Based Metallic Glasses

Khond, A;
Chattopadhyay, C; (...);
Srivastav, AK

Apr 2021

| METALLURGICAL AND
MATERIALS
TRANSACTIONS A-
PHYSICAL METALLURGY
AND MATERIALS
SCIENCE
52(4), pp.1169-1173

In this study, the glass-forming ability (GFA) of the Hf-Cu-Ni system has

[Full Text at Publisher](#)

6

Article
Understanding the role of Er on glass-forming ability parameters and

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critical cooling rate in Fe-based multicomponent bulk metallic glasses

Deshmukh, AA; Khond, AA; (...); Palikundwar, UA
Apr 5 2020
| JOURNAL OF ALLOYS AND COMPOUNDS
819

In this paper, the role of a lanthanide element, Erbium (Er) on the glass-

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7

Article Investigation of glass forming ability parameters in Hf-Cu-Ni glassy alloy

Deshmukh, AA; Khond, AA; (...); Palikundwar, UA
Mar 1 2020
| ENGINEERING RESEARCH EXPRESS

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Article
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Khond, A; Babu, DA; (...);
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Nov 15 2018

| JOURNAL OF NON-CRYSTALLINE SOLIDS

500, pp.191-195

In the present work, Hafnium (Hf) based metallic glasses (MGs)

[Full Text at Publisher](#)

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Applicability of * Parameter on Glass Forming Ability of Zr-,Ti-,Hf-(Cu- Ni)-based Metallic Glasses

Khond, A; Bhatt, J and
Srivastav, AK

Nov 2018

| TRANSACTIONS OF
THE INDIAN INSTITUTE
OF METALS

71(11), pp.2839-2843

Bulk metallic glasses are
considered as potential
materials for

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 Web of Science ResearcherID: JZE-6055-2024

Published name ⓘ

Patil, Digvijay

Organizations ⓘ

Indian Institute of Technology (IIT) - Bombay
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Subject Categories

Engineering; Energy & Fuels; Mechanics
; Thermodynamics

4
H-Index

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1 **Proceedings Paper**

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UNDERSTANDING THE STATE OF SANITATION IN INDIA THROUGH QUALITATIVE METHODS AND A SEPTIC TANK SENSING DEVICE

Naik, M; Rivera, PC; (...); Bilton, AM
ASME International Design Engineering Technical Conferences / 42nd Annual Computers and Information in Engineering Conference (IDETC-CIE) / 35th International Conference on Design Theory and Methodology (DTM) 2023
| PROCEEDINGS OF ASME 2023 INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, IDETC-CIE2023, VOL 6

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Article
Development of High Performance Vertical Falling Film Plastic Dehumidifier Exploiting Surface Modification Technique

Khan, R; Patil, D and Kumar, R
 Oct 1 2022
 | JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME
 144(5)

Plastics as air-liquid desiccant contacting surfaces are being

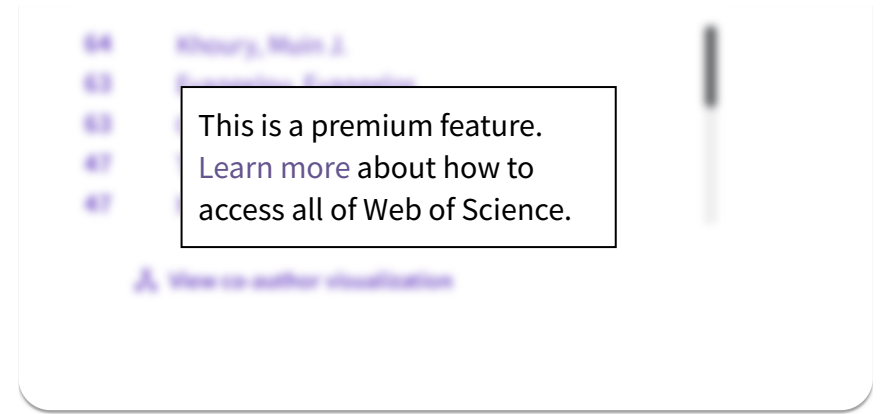
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Article

Performance intensification of regeneration process for non-corrosive plastic plate vertical falling film tower

Kumar, R; Patil, D; (...); Lu, T
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[Full Text at Publisher](#)

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Article Experimental investigation of maldistribution in vertical plate falling film tower

Kumar, R; Patil, D; (...); Aras, P

7 Citations
0 References

2017
| CHEMICAL
ENGINEERING
COMMUNICATIONS
204(11), pp.1237-1245

Falling film towers are
popular in process
industries due to
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Article
**Wetting
enhancement of
polypropylene
plate for falling
film tower
application**

Patil, D; Kumar, R and
Xiao, F

Oct 2016

| CHEMICAL
ENGINEERING AND
PROCESSING-PROCESS
INTENSIFICATION
108, pp.1-9

Falling film towers are

18

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Published name i Mishra, Kundan

Organizations i MIT Acad Engn
National Institute of Technology (NIT System)

Subject Categories Mechanics; Engineering; Construction & Building Technology

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1 Article
Analysis of intelligent hybrid fuzzy
0 References

logic system for multiple crack diagnosis of rotor shaft rotating in fluid environment using vibration signature

Yadao, A and Mishra, K
Jul 2 2025
| SADHANA-ACADEMY
PROCEEDINGS IN
ENGINEERING
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50(3)

From last three decades, fuzzy logic has been applied in

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Article Modeling and Identification of Fault in Fixed-Fixed Rotor

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Submerged in Fluid Environment Based on Hybrid Genetic Algorithm and Clonal Selection Algorithm Approach

Yadao, A and Mishra, K
Feb 2025
| MECHANICS OF SOLIDS
60(1), pp.524-547

A rotor transverse crack is a serious flaw that poses a serious

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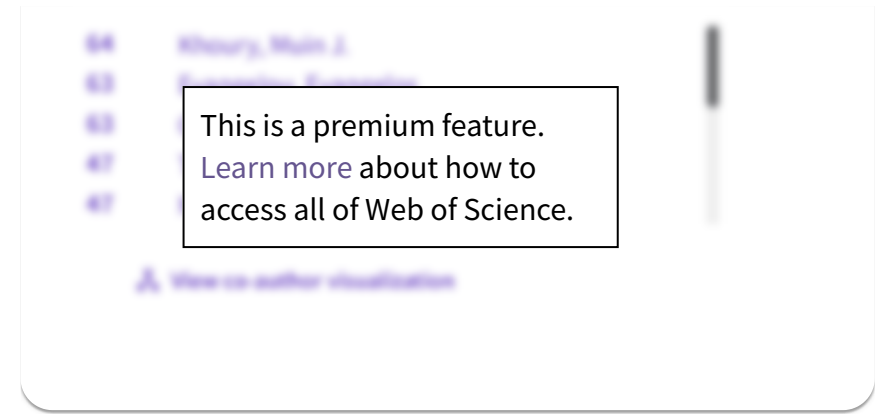
Article A Hybridization of CSA DEA Approach for Detection of Multiple Transverse

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Crack Rotor Shaft Rotating in Fluid Environment under Axial and Bending Loading

Yadao, A and Mishra, K
Aug 2024
| MECHANICS OF
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59(4), pp.2100-2126

Rotor shaft cracks can
be acknowledged as a
substantial issue

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4

Article
**Numerical
investigation
of FGMs of
various
material
distributions
with
discontinuities**

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References

under localized loadings

Mishra, K; Lal, A and Sutaria, BM

Jul 2 2024

| MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES

52(7), pp.4739-4758

In the present study, the fracture analysis of functionally graded

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Article
Experimental Investigation of Repair of Plate with Edge and Center Crack by Surface Bounded Composite Patch

Mishra, K; Lal, A and Sutaria, BM

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Apr 2023
| INTERNATIONAL
JOURNAL OF STEEL
STRUCTURES
23(2), pp.534-547

In the present study,
the experimental
investigation of the

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6 **Article**
XFEM based thermo-elastic numerical analysis of FGMs with various discontinuities

Mishra, K; Lal, A and Sutaria, BM

Dec 2 2023

| MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES

51(12), pp.6998-7029

In this study, mixed-mode stress intensity factor (MMSIF) and

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7 **Article**
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Published name ⓘ

Jadhao, Rohit Rajend

Organizations ⓘ

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Subject Categories

Engineering; Environmental Sciences & Ecology; Physics; Energy & Fuels; Materials Science

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**Comparative
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NACA0021 and NACA2421 aerofoil inserts in turbulent pipe flow

Jadhao, RR; Chitragar, P and Kamble, D

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| ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS 48(1)

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Overview of the future perspective of aerofoil-based passive heat transfer enhancement

Jadhao, RR; Chitragar, P and Kamble, D
Mar 31 2025
| ENGINEERING RESEARCH EXPRESS
7(1)

With increasing demands for sustainability and

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Review A chronological review of heat transfer enhancement using inserts in channel flows

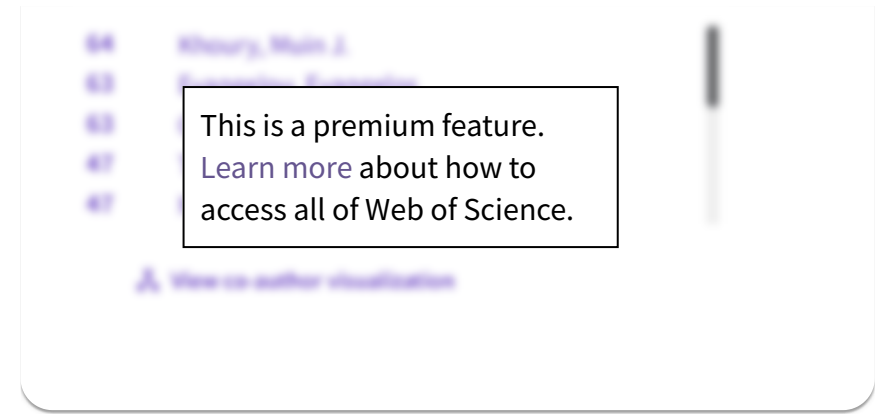
Jadhao, RR; Chitragar, P and Kamble, D

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Mar 1 2025

| PHYSICA SCRIPTA

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Heat transfer enhancement has become an important

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Jadhao, RR; Chitragar, P and Kamble, D
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-  <https://orcid.org/0000-0003-3320-8265>

Published names ⓘ

More, Satish R.

Organizations ⓘ

Nutan Maharashtra Inst Engn & Technol
Siddhartha Academy of Higher Education

Nutan Maharashtra Inst Engn & Technol
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National Institute of Technology (NIT
System)

Subject Categories

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Physics; Instruments & Instrumentation

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1 **Article**

Effects of low-power laser hardening on the mechanical and metallurgical properties of biocompatible SAE 420 steel

Wagh, SV; More, SR; (...); Siddiqui, MIH
May-jun 2024
| JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY- JMR&T
30, pp.1611-1619

The present experimental work is carried out on SAE 420

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Properties of WC-10Co-4Cr Laser Cladding Surfaces on Mild Steel

More, SR; Menghani, JV and Vyas, A
Feb 2024 (Early Access)
| METAL SCIENCE AND HEAT TREATMENT

The effect of laser cladding process technological

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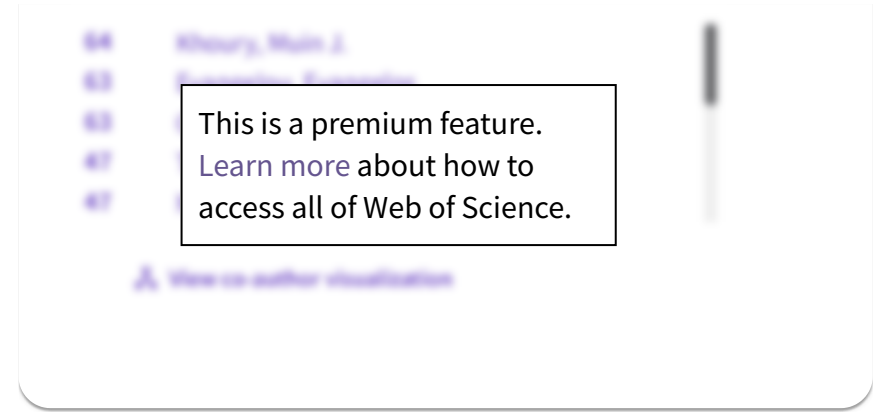
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Determining optimal parameters using Taguchi's design of experiments (DOE) for improving the quality of biogas generation process

Kanakavalli, PB and More, SR
Jun 1 2022
| ENGINEERING RESEARCH EXPRESS
4(2)

The use of an anaerobic process of biogas production depends on

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CO₂ laser cladding of AlFeCoCrNiCu powder on AISI 316

Menghani, J; Vyas, A; (...); Patnaik, A
Jul 29 2021
| HIGH TEMPERATURE MATERIALS AND PROCESSES
40, pp.265-280

The purpose of the current investigation is to analyze the effect of

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Article Study of the Fracture Behavior under the Effect of Cross-ply and Angle-ply Arrangement of FRP Composite

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Laminate Subjected to Central Circular Cut-out with Mechanical and Thermal Loading Conditions

Madhav, VV; Gupta,
AVSSKS and More, SR
Jun 2021

| INTERNATIONAL
JOURNAL OF
ENGINEERING
34(6), pp.1526-1532

In advance composite
material the
propagation of crack is

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Proceedings Paper Optimization of wall thickness and geometric accuracy in stretch forming combined with

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Jagtap, R; Kakandikar, G; (...); More, S
International Conference on Advances in Materials Processing and Manufacturing Applications (ICADMA) 2021
| MATERIALS TODAY-PROCEEDINGS
44, pp.4393-4398

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[Full Text at Publisher](#)

7

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Menghani, J; Vyas, A;
(...); More, S
International
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and Manufacturing
Technology (ICE3MT)
2021
| MATERIALS TODAY-
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38, pp.2824-2829

High entropy alloy is the
new development in
material compositions.

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Article

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Characterization and Optimization of Slurry Erosion Behavior of SS 316 at Room Temperature

Vyas, A; Menghani, J; (...); Ingole, SP
Apr 2021
| TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS
74(4), pp.839-849

Erosion is the most prominent issue in several engineering

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Article
Laser Cladding of PAC 718, Tribaloy T-700 and METCO 41 C Hard Facing Powders on AISI

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SS 304L Substrate

More, SR; Bhatt, DV; (...);
Desale, GR
Feb 2021

| INTERNATIONAL
JOURNAL OF
ENGINEERING
34(2), pp.480-486

The present
investigation aims to
deposit the three

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Article
**Effect of
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and Hardness
on Slurry
Erosion
Behaviour of
A356 Alloy Using
Slurry Pot Test
Rig**

More, SR; Bhatt, DV and
Menghani, JV

10

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References

Dec 2019
| TRANSACTIONS OF
THE INDIAN INSTITUTE
OF METALS
72(12), pp.3191-3199

A356 alloy is used in
pump impeller, casing
and pipes in power

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Proceedings Paper
**The Study of
Slurry Erosion
Wear Behaviour
of Coal Bottom
Ash Slurry
Handling
Pipeline**

More, SR; Ingole, SP;
(...); Menghani, JV
148th The-Minerals-
Metals-and-Materials-
Society (TMS) Annual
Meeting and Exhibition
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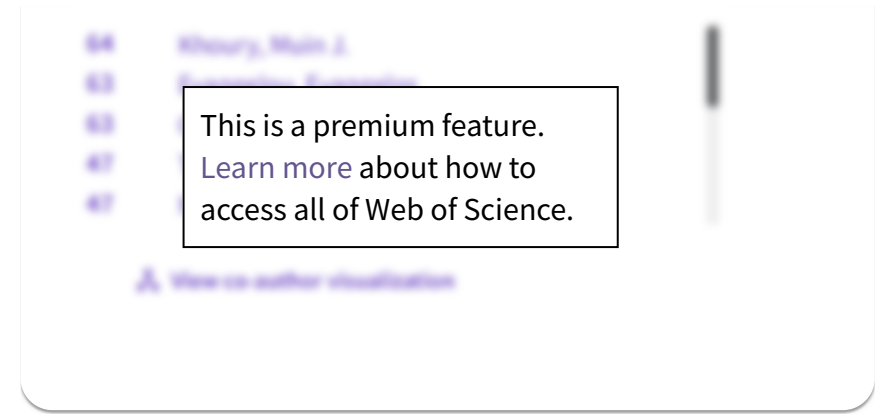
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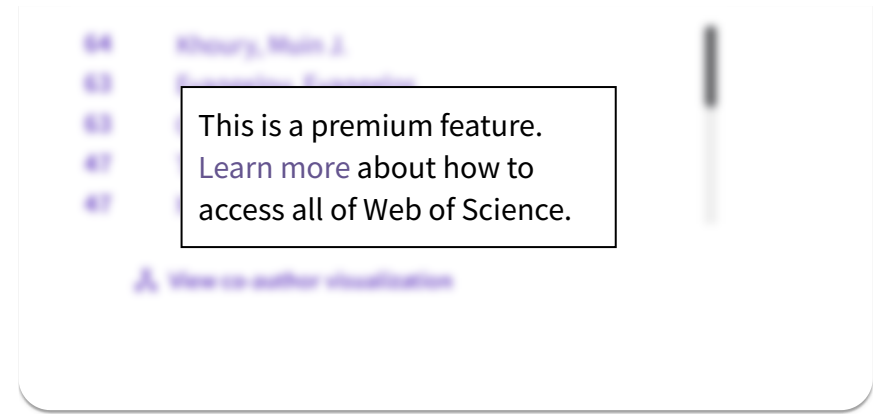
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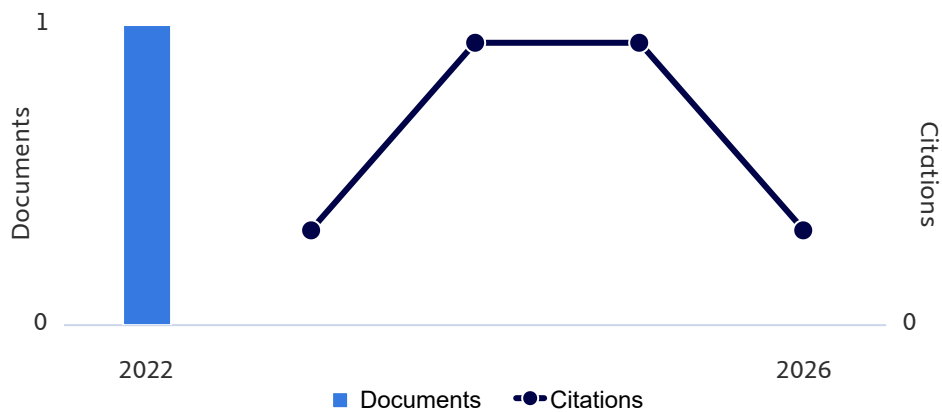
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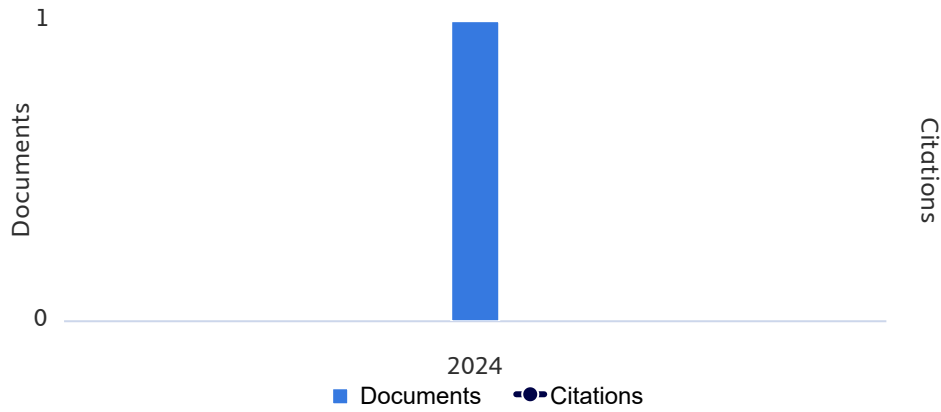
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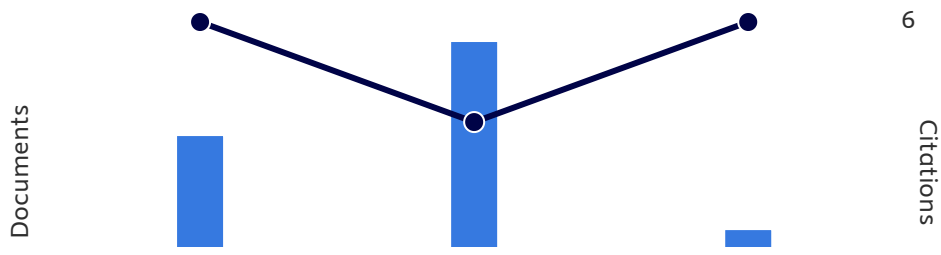
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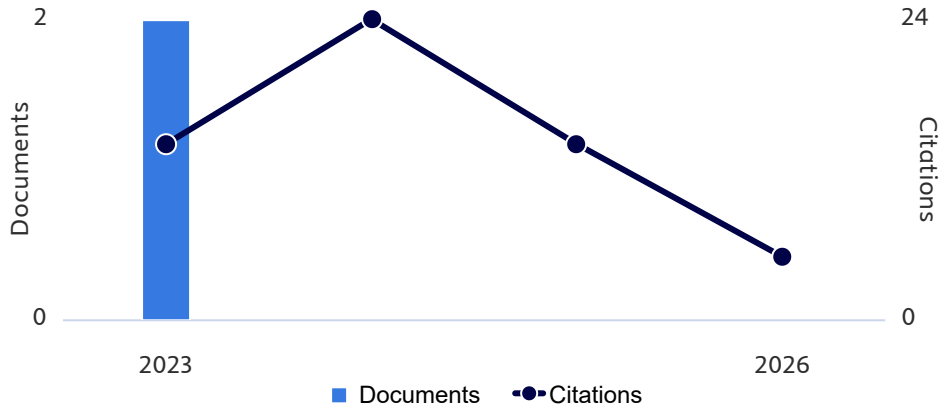
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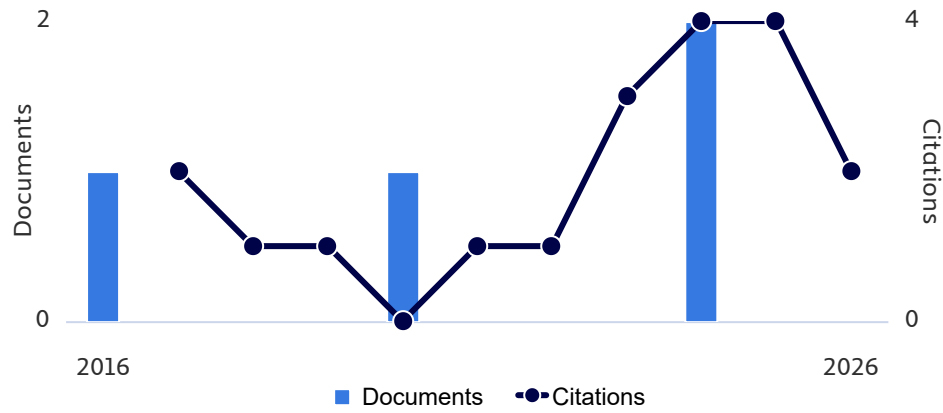
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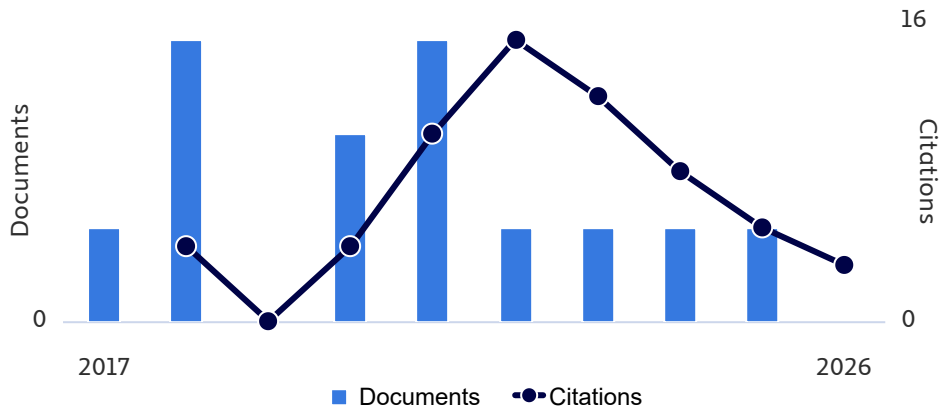
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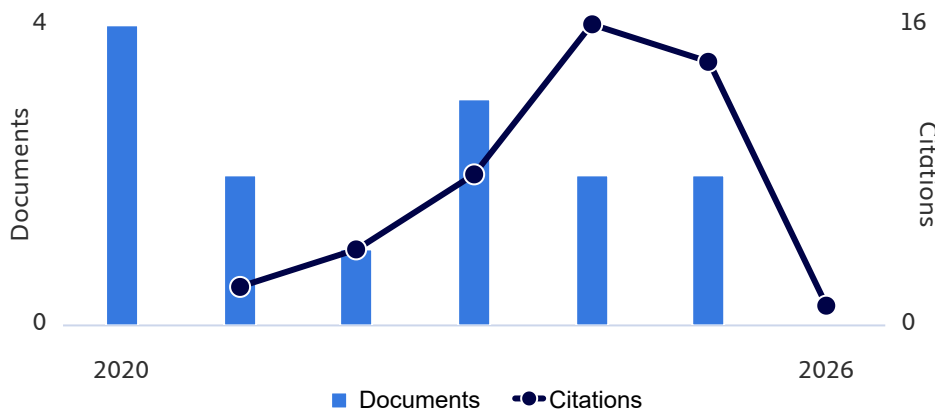
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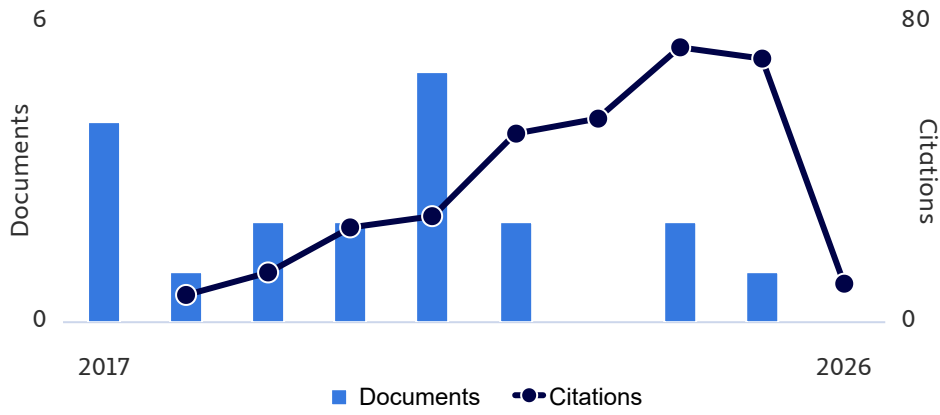
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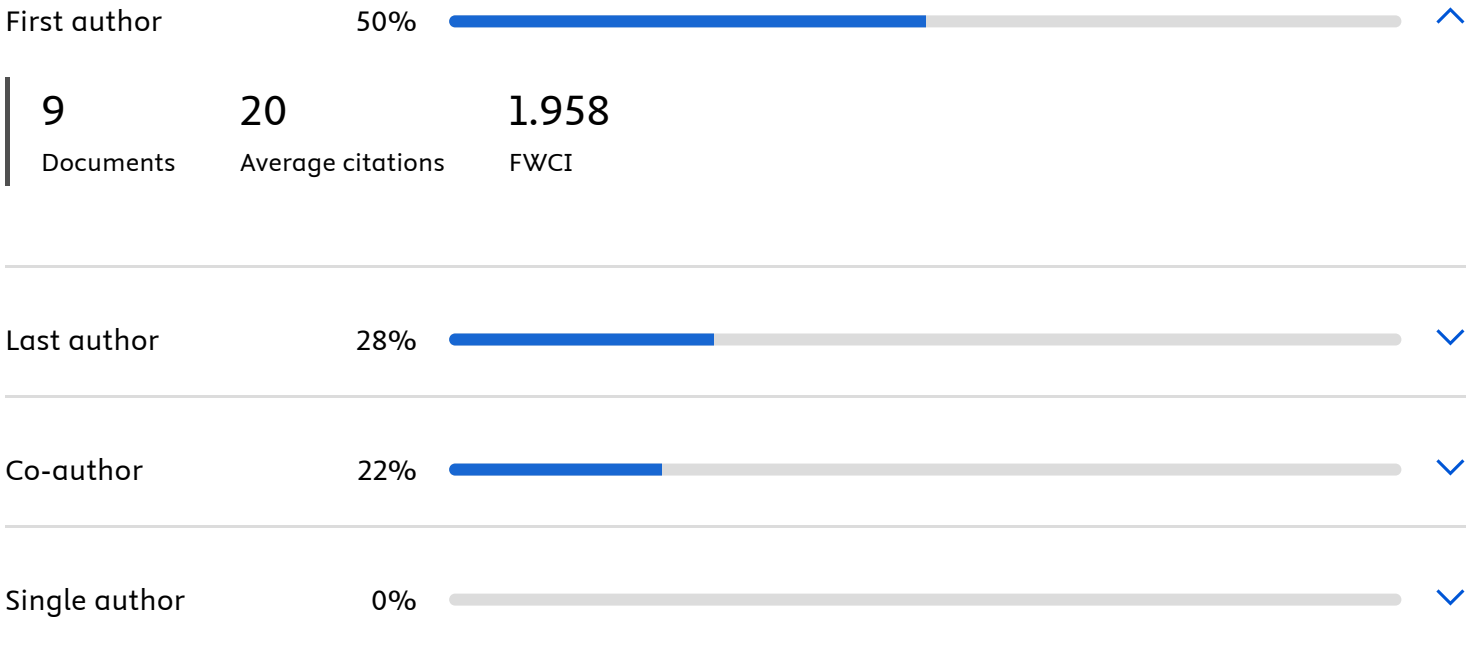
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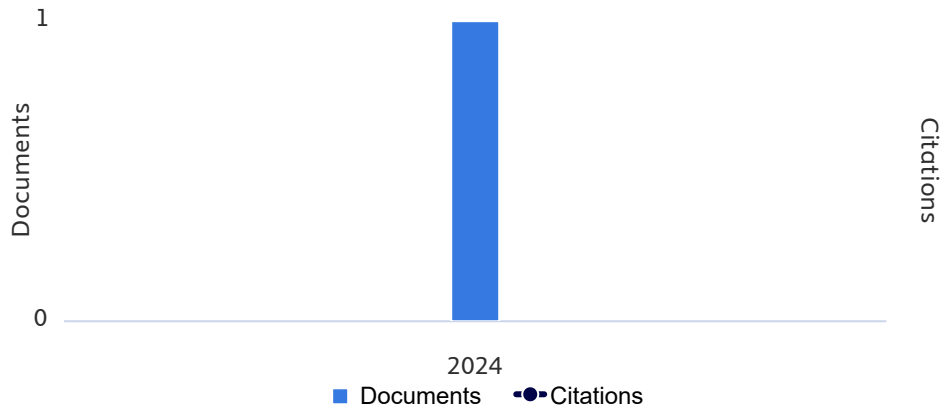
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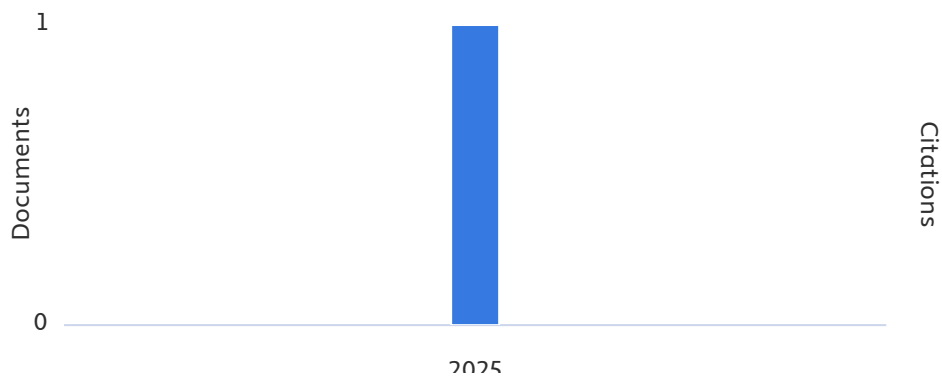
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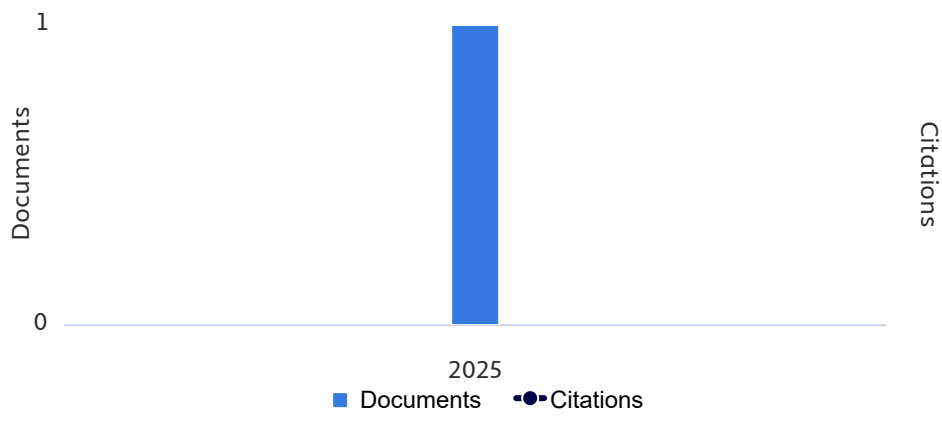
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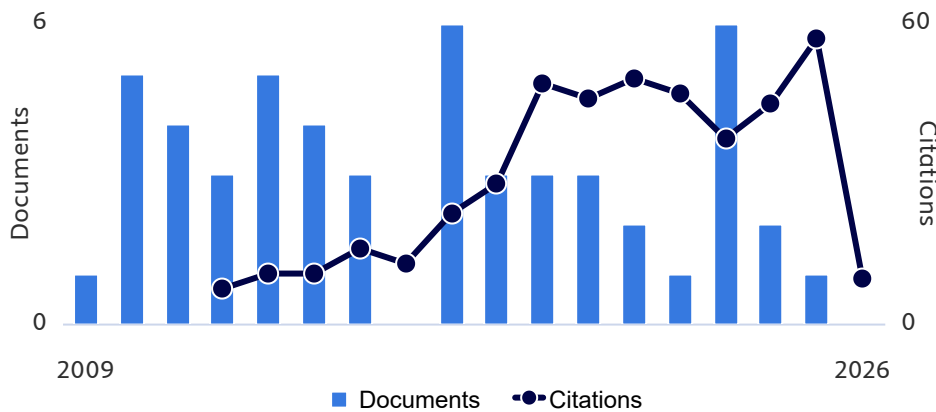
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