



ICFME-2022

International Conference on Frontiers in Materials Engineering

December 14 – 16, 2022

Organized by: Department of Metallurgy Engineering and Materials Science, IIT Indore

Venue: Indian Institute of Technology Indore Campus

<http://icfme2022.iiti.ac.in>

Call for Paper

Patron

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Director,
Indian Institute of Technology Indore

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Professor Sung Hun Jin
Incheon National University, S. Korea

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Prof. Hemant Borkar, IIT Indore, India

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5111(Lab)

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Dear Professor/Researcher

Greetings from IIT Indore!

It is my pleasure to inform you that the Department of Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore is organizing "International Conference on Frontiers in Materials Engineering (ICFME-2022)" which is scheduled for December 14-16, 2022 at IIT Indore, Madhya Pradesh, India.

Researchers, academicians, industry professionals, students, and individuals are invited to submit the abstracts on the following themes (but not limited to).

- **Materials Synthesis, Processing and Characterization:** Nanomaterials, Soft-materials Nanostructures, thin films, 2D materials, composites, metal alloys, lightweight materials etc.
- **Energy Materials:** Solar cell, batteries, supercapacitor, hydrogen generation and storage, fuel cell, piezo- and thermo-electric etc.
- **Sustainable and Environmental Materials:** Sensors, CO₂ capture and sequestration, catalysis, pollutant adsorption and degradation
- **Mechanics of Materials:** Fracture and failure, deformation behavior, indentation mechanics, phase equilibria
- **Corrosion and Surface Protection:** Corrosion mechanism and measurement, coating, anodization, inhibitors
- **Materials for Strategic and Societal Applications:** Defense, space, transport, textile, medical etc.
- **Computational Modeling and Simulation:** DFT, molecular mechanics, machine learning etc.

Online Link to submit the abstract: <https://forms.gle/A1VGSrpYdeyzmrD18>

Online Link for Registration: <https://forms.gle/L32ji2aWDTNaczjH8>

IMPORTANT DATES:

Abstract submission deadline: **15 September 2022**

Notice for Abstract Acceptance: **30 September 2022**

Registration Deadline: **15 October 2022**

Please find the attached brochure of the conference. We request you to kindly circulate the information of ICFME-2022 to the research groups/individuals who might be interested to participate in the conference and display in your notice board.

NOTE: The conference will be in physical mode (offline), however, hybrid mode option may be adopted if there will be any covid-19 restrictions.

Looking forward to seeing your participation in ICFME-2022.

With sincere regards

Dr. Ajay Kumar Kushwaha
General Chair, ICFME-2022
(On-behalf of organizing team)



IIT Indore

International Conference on Frontiers in Materials Engineering

December 14 – 16, 2022

Department of Metallurgy Engineering and Materials Science (MEMS)
Indian Institute of Technology Indore

ICFME-2022

Indian Institute of Technology Indore (IIT Indore) is an institute of national importance established by the Government of India in 2009. Its campus sprawls over around 500 acres with around 3000 on campus residents. IIT Indore is equipped with a world-class research infrastructure with renowned faculty members. The institute is ranked 396th in the QS World University Rankings 2023 and 9th amongst the Indian Universities, highest amongst the second generation IITs. The Department of Metallurgy Engineering and Materials Science (MEMS) has been functioning as a full-fledged department since 2016. The emphasis of the department is to promote multidisciplinary research for finding sustainable solutions to real-world problems through its cutting-edge research on all the frontiers of material science and engineering. The ICFME-2022 will include the PLENARY talks, KEYNOTE lectures, and INVITED talks delivered by eminent speakers. The ICFME-2022 will also provide an opportunity to present research work as contributing oral paper and poster presentations.

<http://icfme2022.iiti.ac.in>

IMPORTANT DATES

Abstract Submission Deadline

September 15, 2022

Notification of Abstract Acceptance

September 30, 2022

Registration Deadline

October 15, 2022

Awards

- 03 Best Oral Presentation Award
- 06 Best Poster Award

Accommodation

Limited accommodation may be given on the payment basis at IIT Indore Hostels. For more details, please visit the webpage: <http://icfme2022.iiti.ac.in/>

Contact

Dr. Ajay Kumar Kushwaha
General Chair, ICFME-2022

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Committee

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- Dr. R.S. Maurya (*Local Hospitality Chair*)
- Dr. Sumanta Samal (*Registration Chair*)
- Dr. Hemant Borkar (*Sessions Chair*)

Call for Abstract

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- **Materials Synthesis, Processing and Characterization:** Nanomaterials, Soft-materials, Nanostructures, Thin films, 2D materials, Composites, Metal alloys, Lightweight materials
- **Energy Materials:** Solar cell, Batteries, Supercapacitor, Hydrogen generation and storage, Fuel cell, Piezo- and Thermo-electric
- **Sustainable and Environmental Materials:** Sensors, CO₂ capture and sequestration, Catalysis, Pollutant adsorption and degradation
- **Mechanics of Materials:** Fracture and failure, Deformation behavior, Indentation mechanics, Phase equilibria
- **Corrosion and Surface Protection:** Corrosion mechanism and Measurement, Coating, Anodization, Inhibitors
- **Materials for Strategic and Societal Applications:** Defense, Space, Transport, Textile, Medical
- **Computational Modeling and Simulation:** DFT, Molecular mechanics, Machine learning

PUBLICATION: Selected papers may be published in Journal of (ICE) '*Nanomaterials and Energy*' after peer review.

Abstract Submission

The title should be written in Times New Roman 14 pts. The abstract should not contain more than 200 words. The abstract should be self-contained and written in Times New Roman 12 pts. Paragraph - Line Spacing- Single.

Upload Abstract using the following link:

<https://forms.gle/A1VGSrpYdeyzmrD18>

Registration

Participants can register online using the Google Form.

<https://forms.gle/L32ji2aWDTNACzjH8>

Student/Postdoc	5000 INR
Faculty/Scientist/others	8000 INR
Industry Delegates	15000 INR
International Student/Postdoc	250 USD
International Faculty/Scientist	450 USD

Mode of Payment: Via NEFT

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Beneficiary Account No.: 1476101027440

Name of Bank: Canara Bank

Branch: Simrol IIT Branch

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