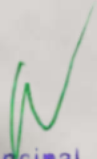


MODERN MATERIALS FOR ENGINEERING AND RESEARCH

SELECTED PEER-REVIEWED EXTENDED ARTICLES
BASED ON ABSTRACTS PRESENTED AT THE
1st INTERNATIONAL CONFERENCE ON
MODERN MATERIALS FOR ENGINEERING AND RESEARCH


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A.J. Institute of Engineering & Technology
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EDITED BY:
DR. THANGAPRAKASH SENGODAN
DR. CHANDRASEKARA ADAKE
DR. D.M. SANGEETHA
DR. SUNIL RAYKAR

 TRANS TECH PUBLICATIONS

Modern Materials for Engineering and Research

Selected peer-reviewed extended articles
based on abstracts presented at the
1st International Conference on
Modern Materials for Engineering and Research
(ICMMER 2022)

Edited by
Dr. Thangaprakash Sengodan
Dr. Chandrasekara Adake
Dr. D.M. Sangeetha
Dr. Sunil Raykar



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Preface

The 2022 First International Conference on Modern Materials for Engineering and Research (ICMMER 2022) aimed to promote the integration of advanced areas in Materials Science and Engineering. The field of advanced engineering and physical materials has not only helped the development of various fields of science and technology but also contributes to the improvement of the quality of human life to a great extent.

The conference focuses on state-of-the-art technologies and advances in engineering materials and physical sciences. ICMMER 2022 was organized by the Department of Mechanical Engineering, SENGUNTHAR ENGINEERING COLLEGE (an autonomous institution), Tiruchengode, Tamil Nadu, India, during 29-30 September 2022. ICMMER 2022 provided a remarkable opportunity for the academic, research and industrial communities to address new challenges and share solutions and discuss future research directions in the above fields. ICMMER 2022 welcomed experts, professionals, academicians and researchers from all over the world. There is an immense opportunity to learn and express the views through interactive sessions and technical papers presentation. Eminent professionals, scholars and young postgraduate researchers were granted an opportunity to share their views and enhance their knowledge of broad spectrums of engineering materials and physical sciences. Moreover, ICMMER 2022 included plenary lectures, keynote speakers' eminent personalities from around the world in addition to contributed papers presentations.

The conference received submissions from 6 countries, and the editorial board of ICMMER has accepted the papers after the stringent screening and review process. ICMMER is a scientific event aimed to be conducted every year in the fourth week of September.

ICMMER 2022 was organized in an online mode. Each presenter was given ten minutes for the presentation and three minutes for queries and discussion. The entire meeting has been conducted using the Google Meet platform.

Dr. Thangaprakash Sengodan
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