Preface

This issue features articles that showcase research findings presented at the International Conference on Functional Materials for Energy and Manufacturing (ICFMEM 2023), which was held on July 26, 2023, at Pallavan College of Engineering in Kancheepuram, Tamilnadu, India. ICFMEM provided a platform for experts, researchers, scholars, and academicians across the globe to exhibit their recent innovative research results and the most recent trends in the diverse fields of materials and energy.

The program was comprised of three Plenary and four Invited lectures and eighty oral presentations covering emerging fields of materials and energy. The organizing committee sincerely acknowledges the support and continuous encouragement from Shri. E. Santhanam, Smt. S. Selvambal (Patrons-RBRI), Dr. P. Anandhi (Conference Chair) and Dr. Kamrul Hasan Talukder (Conference Secretary), Khulna University, Bangladesh.

Also, we would like to express thanks to Professor Dr. Ilhami Colak, Nisantasi University, Turkey, for rendering his support. We are grateful to the advisory committee and technical review committee (National/International) for their valuable suggestions and contributions in organizing the impressive scientific event.

The organizers sincerely thank the guest editors and all the reviewers for their great efforts in bringing out the high-standard scientific publication. The organizers of the conference also extend their gratitude to the publisher Scientific net for support in the publication of this issue.

Dr. S. Harikrishnan Principal, Pallavan College of Engineering, Tamilnadu, India

Committee

Organizing Secretary

Dr. Kamrul Hasan Talukder, Prof & Dean, SETS, Khulna University, Bangladesh

Conference Chair

Dr. P. Anandhi, Ranbal Research Institute, Kancheepuram, India

Advisory Committee

- Dr. Md. Rezaul Haque, Professor, Khulna University, Bangladesh
- Dr. Farzana Nahid, Professor, Khulna University, Bangladesh
- Dr. Md. Haider Ali Biswas, Professor, Khulna University, Bangladesh
- Dr. Md. Shamim Ahsan, Professor, Khulna University, Bangladesh
- Dr. S. Harikrishnan, Principal, Pallavan College of Engineering, Kanchipuram, India
- Dr. R. Thangappan, Periyar University, Salem, India
- Dr. G. Murugadoss, Sathyabama University, Chennai, India
- Dr. S. Sankar, Sriram Engineering College, Chennai, India
- Dr. R. Vinayagamoorthy, SCSVMV University, Kancheepuram, India
- Dr. D.S. Vijayan, AVIT, Chennai, India
- Dr. A. Rajaram, EGS Pillay Engineering College, Nagapattinam, India
- Dr. K. Anisha, SCSVMV University, Kancheepuram, India
- Dr. G. Chinnadurai, Rajiv Gandhi College of Engg, Chennai, India
- Dr. S. Imran Ussain, Saveetha Engineering College, Chennai, India
- Dr. B. Senthil, SRM Institute of Science & Technology, Chennai, India
- Dr. G. Sriharan, AVC College of Engineering, Tamilnadu, India
- Prof. M. Seeman, Annamalai University, Tamilnadu, India
- Dr. P. Sivaraj, Annamalai University, Tamilnadu, India
- Dr. Muthumanickam, Institution of Textile Technology, Chennai, India
- Dr. R. Selvam, Saveetha Engineering College, Chennai, India
- Dr. L. Prabhu, Aarupadai Veedu Institute of Tech, Chennai, India
- Dr. M. Prabahar, Aarupadai Veedu Institute of Tech, Chennai, India
- Er. P. Vignesh, Project Engineer, EinNel Technologies

Advisory Committee (International Members)

- Dr. Vincenzo Bianco, Universita degli Studi di Genova, Italy
- Dr. Mohammed Hafiz Ali, University of Texas, USA
- Dr. Muhammed Bin Mat Noor, Universiti Malaysia, Pahang
- Dr. Nidal AbuHamdeh, King Abdulaziz University, Saudi Arabia
- Dr. Tarek Bouktir, University of Ferhat Abbas Setif, Algeria
- Dr. Evangelos Bellos, National Technical University of Athens, Greece
- Dr. Hamzah Ahmad, Universiti Malaysia, Pahang
- Dr. Tooraj Yousefi, Ryerson University, Canada
- Dr. Hakan F Oztop, Firat University, Turkey
- Dr. Robert A Taylor, University of New South Wales, Australia
- Dr. M. Shanmugam, Yeungnam University, South Korea

- Dr. Luis Lugo, Universidade de Vigo, Spain
- Dr. Ayodele A Daniyan, Obafemi Awolowo University, Nigeria
- Dr. D. Jegan Raj, Wolkite University, Ethiopia
- Dr. Aloysius F. Hepp, Chief Technologist Nanotech Innovations, USA
- Dr. Jaime C. Galvez, Universidad Politecnica de Madrid, Madrid, Spain
- Dr. Nader Karimi, Queen Mary University of London, England
- Dr. Muhammad Sharif, The University of Alabama, USA
- Dr. Azura Che Soh, Universiti Putra Malaysia, Malaysia
- Dr. Mazin Zeki Othman, Dhofar University, Oman
- Dr. Isaac I. Akinwumi, Covenant University, Nigeria
- Dr. Balew Baye, Debre Tabor University, Ethiopia
- Dr. Alaa El Din Mahmoud, Environmental Sciences Department, Faculty of Science, Alexandria University, Egypt.
- Dr. Benlekkam Mohamed Lamine, Smart Structure Laboratory, University Center d'Ain Temouchent, Algeria

Technical Review Committee

- Dr. Abu Shamim Mohammad Arif, Professor, Khulna University, Bangladesh
- Dr. Munnujahan Ara, Professor, Khulna University, Bangladesh
- Dr. Md. Rashedur Rahman, Professor, Khulna University, Bangladesh
- Dr. Pradip Lingfa, NERIST, Arunachel Pradesh, India
- Dr. John Philip, IGCAR, India
- Dr. K.M. Pandey, NIT Silchar, India
- Dr. A. Arivarasan, Kalasalingam University, Krishnankovil, India
- Dr. R. Prakash, VIT University, Vellore, Tamilnadu, India
- Dr. D. Dineshkumar, Sathyabama University, India
- Dr. B. Raja, IIIT&DM, Kancheepuram, Chennai, India
- Dr. A. Rajasekhar, SRM Institute of Science & Technology, India
- Dr. A.D. Dhass, Indus Institute of Technology and Engineering, Indus University, Gujarat, India
- Dr. R. K. Sharma, Manipal University, Jaipur, India

Publication Committee

- Prof. Viacheslav Barsukov, Kyiv National University of Technologies and Design, Ukraine
- Dr. Md. Shamim Ahsan, Professor, Khulna University, Bangladesh
- Dr. Jamil Ahmed, Associate Professor, Khulna University, Bangladesh
- Dr. Md. Omar Faruk Rasel, Associate Professor, Khulna University, Bangladesh
- Dr. V. Jawahar Senthilkumar, Anna University, Chennai, India

Conference Photos





