

## Preface

The 12th Annual International Conference on Material Science and Engineering (ICMSE2024) was successfully held in Hangzhou, Zhejiang, China at July 26-28, 2024.

The ICMSE2024 is becoming one of the leading international conferences for presenting novel and fundamental advances in the fields of material science and engineering in China. We believe that through keynote speeches by outstanding, internationally recognized scholars, in oral sessions and posters presentations, the Conference has reflected an overview of the latest developments in materials science. The topics of ICMSE 2024 ensured an exchange of scientific information and opinions in a field with impressive dynamics, considering the technological progress, theoretical and practical aspects of the research. This forum provides opportunities for the senior and young researchers, as well as representatives to the academia and industry, to exchange new ideas, to establish research or business relations and to find partners for future collaboration. We hope that the conference has constituted significant contribution to the knowledge in this up to date scientific field.

The proceeding tends to collect the up-to-date, comprehensive and worldwide state-of-art knowledge on material science and engineering. The conference program was extremely rich, featuring invited keynote speeches, panel discussions, high-impact oral and poster presentations. The keynote speaker is internationally recognized leading expert in the research field of material science and engineering, who have demonstrated outstanding proficiency and have achieved distinction in their profession. We hope this conference will not only provide the participants a broad overview of the latest research results on material science and engineering, but also provide the participants a significant platform to build academic connections.

We would like to express our sincere gratitude to all the members of Technical Program Committee and our keynote speakers for their enthusiasm, time, and expertise. Our deep thanks also go to many volunteers and staffs for the long hours and hard work they have generously given to ICMSE 2024.

Finally, we would like to thank all the authors, speakers, and participants of this conference for their contributions to ICMSE 2024, and also looks forward to welcoming you to the ICMSE 2025.