

Preface

The 2026 2nd International Conference on Environmental Monitoring and Ecological Restoration (EMER 2026) was successfully held from March 27 to 29, 2026. The conference brought together researchers, engineers, and practitioners from academia and industry to exchange the latest scientific findings and technological advancements in the fields of environmental monitoring and ecological restoration. Against the backdrop of increasing global environmental challenges, EMER 2026 provided an interdisciplinary platform to foster collaboration and promote innovative solutions toward sustainable environmental management.

The conference featured a series of high-level keynote speeches delivered by distinguished scholars. Professor Guangming Li (Tongji University, China) explored the feasibility of producing aviation fuel from waste tire pyrolysis oil, highlighting pathways for resource recovery and energy sustainability. Professor Dunzhu Li (Zhejiang A&F University, China) presented insights into the release kinetics and control strategies of emerging contaminants at the three-phase interface of plastic substrates, addressing critical issues related to microplastic pollution. Professor Shengqi Guo (Hebei University of Technology, China) discussed the application of defective photocatalytic systems in environmental pollution control, demonstrating innovative approaches for improving catalytic efficiency. In addition, Senior Lecturer Mohammed JK Bashir (Central Queensland University, Australia) elaborated on integrated strategies for circular economy and low-carbon waste management, emphasizing the transformation of waste into valuable resources. Complementing these keynote sessions, the conference also included a series of oral presentations, which collectively enriched the academic discourse by showcasing diverse perspectives and cutting-edge research outcomes, thereby enhancing the overall depth and breadth of the conference program.

The thematic scope of EMER 2026 encompassed a wide range of topics related to environmental monitoring and ecological restoration. Discussions addressed advanced techniques for monitoring air, water, and soil quality, as well as technologies for pollution control, carbon emission reduction, and ecological risk assessment. Particular attention was given to the development and application of green and sustainable remediation technologies, including bioremediation, phytoremediation, and emerging nanotechnology-based approaches. The integration of novel materials, microbial methods, and environmentally friendly chemical processes was also a central focus, alongside strategies for enhancing carbon sinks and advancing carbon capture. These topics collectively reflect the growing emphasis on combining monitoring precision with effective restoration methodologies to achieve long-term environmental resilience.

EMER 2026 attracted over 100 participants from numerous countries and regions, demonstrating its international appeal and academic significance. A total of 125 manuscripts were submitted to the conference, of which 51 papers were accepted after a rigorous peer-review process, resulting in an acceptance rate of approximately 41%. All submissions underwent thorough evaluation by experts in relevant fields, ensuring the scientific quality and integrity of the published proceedings.

The organizing committee would like to express their sincere appreciation to all authors for their valuable contributions, to the reviewers for their diligent and professional assessments, and to the organizing committee for their dedicated efforts in ensuring the success of the conference. It is hoped that the proceedings will serve as a useful reference for researchers and practitioners, and further stimulate advancements in environmental monitoring and ecological restoration.

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