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Editorial

Special issue CHEMPOR 2023 – 14th International Chemical and Biological Engineering Conference[☆]



The 14th International Chemical and Biological Engineering Conference (CHEMPOR 2023), organized by Bragança Polytechnic University and the Portuguese Engineers Association, was held in Bragança, Portugal, on September 12–15, 2023. CHEMPOR 2023 focused on recent developments in various settings, including biorefinery, biotechnology, energy and environment, innovative materials, and the creation and design of novel reaction and separation processes, always foreseeing industrial applications for a sustainable future. The conference served as a melting pot to celebrate creativity, diversity, and friendship among participants, fostering the exchange of ideas and enabling fruitful interactions. It brought together professionals from the academic, industrial, scientific, and technological communities, uniting over 300 delegates from 12 countries.

This collection of papers from CHEMPOR 2023 vividly illustrates how biological and chemical engineers are tackling the major societal challenges of our time. They highlight converging initiatives to promote sustainability through a circular economy where materials are valued and renewable. The papers present contemporary contributions in

wastewater treatment, waste and biomass valorization, energy transition solutions, efforts to mitigate climate change, and bio-based approaches to produce, separate, and purify valuable compounds using ionic liquids or eutectic solvents. The selected works featured in this special issue represent an excellent reflection of the conference spirit. The attendees' dedication to seeking innovative solutions and producing high-quality scientific outputs also stood out.

Finally, we want to express our profound appreciation to all the participants and our enormous gratitude to all our sponsors and associated scientific journals and publishers. In particular, we acknowledge the editorial team of Separation and Purification Technology, especially Bart Van der Bruggen and Raquel Aires-Barros, for their significant support and enthusiasm.

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