Special Issue

Solar-to-Products: Latest Achievements in Solar-Driven Hydrogen and Chemicals Production

Message from the Guest Editors

This Special Issue collects the most recent and outstanding achievements in the solar-to-chemicals field from theoretical modeling to experimental results and demonstration projects including techno-economic assessments. Topics of this Special Issues are all the production processes based on chemical, electrochemical, photo-electrochemical concepts and applied photosynthesis processes, as well as thermo-chemical cycles. The goal is to cover the most investigated technologies from the vary basics to the most updated laboratories activities In addition, latest optics development and receiver concepts will be also discussed with the evaluation of these new technologies from efficiency point of view. Finally, energy balance, material development and chemical engineering aspects will be addressed to indicate the current status of solar-to-chemicals research, and the next steps to be taken. Prof. Dr. Manzolini Giampaolo

Dr. Gioele Di Marcoberardino

Guest Editors

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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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