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Physical and Applied Chemistry of Novel Materials and Their Applications

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Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to provide an original and unique environment for researchers in academia and industry to share and discuss their cutting-edge results on the physical and applied chemistry of novel materials (such as ionic liquids, MOF, perovskites, ferroelectrics materials, nanomaterials, nanocatalysts, nanocomposite membrane, plasma technology, hybrid organic/inorganic sensors, biodegradable polymers, novel technological membranes, aerogels, novel heat transfer fluids, etc.) covering their characterization, modelling, and/or applications.

These novel materials possess unique properties useful for a wide range of applications in fields as diverse as petrochemicals, energy storage, fine chemicals, pharmaceuticals, biotechnology, hydrometallurgy, environmental remediation and nuclear sciences. In all these fields, such materials can provide novel research strategies and technologies that enable major contributions towards establishing the sustainable processes required for the future of the process industry.

Dr. Johan Jacquemin

Guest Editor



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Special Issue



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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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