



Process Integration and Optimisation for Sustainable Systems

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Deadline for manuscript
submissions:

closed (15 April 2020)

Message from the Guest Editors

Process integration and optimisation of energy and resource flows within industrial and regional systems provide an engineering basis in the move toward sustainability. Process integration applies a holistic approach to systems design where the performances of individual components are devised to benefit the total system. The importance of holistic thinking can impact system design at multiple scales, from micro-reactors to the processes and sites of entire countries and regions. Circular economy, industrial ecology, industrial symbiosis, and life cycle analysis, are related holistic concepts. In working toward sustainable development and systems, process integration and optimisation, combined with these related ideas, have the potential to extract the maximum value and efficiency of energy and resources, leading to a greener economy that minimizes the release of GHG emissions, particulates, and other harmful emissions.





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Message from the Editor-in-Chief

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