Special Issue

Manufacturing Energy Efficiency and Industry 4.0

Message from the Guest Editors

Energy efficiency in manufacturing systems and processes will carry on being a key research topic. Research in the energy efficiency of manufacturing in the last decade has resulted in very promising improvements. While design-time energy efficiency considerations have received considerable attention, operating time efficiency is now increasingly benefitting from the adoption and implementation of Industry-4.0-enabling technologies. The Industrial Internet of Things (IIoT), the upgrade of manufacturing facilities into industrial cyber physical systems (ICPS), and the efficient exploitation of manufacturing and process monitoring data through advanced Machine Learning present concrete opportunities towards more responsive, smarter, and more energy-efficient manufacturing. This Special Issue considers the energy efficiency of both manufacturing processes and systems and how these can be improved by the use of Industry-4.0-enabling technologies.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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