Section
Applied Industrial Technologies
Introduction for Applied Industrial Technologies

This section focuses on industrial smart and sustainable technologies and processes oriented towards practical applications. It focuses on smart industrial systems, and related environmental and sustainability research and practice. Through our published articles, we aim at helping societies become more sustainable. It has the aims of waste valorization and increasing efficiencies in the uses of energy, water, and resources, within an industrial symbiosis and circular economy perspective, with special focus on the use of modern techniques aligned with the Industry 4.0 strategy. By contrast, works focusing on more theoretical developments should be addressed to more specialized journals. The section publishes original papers, review articles, technical notes, and letters to the editor. Authors are encouraged to submit manuscripts that bridge the gaps between applied research, development, and implementation.

Author Benefits


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Subject Area

Smart Manufacturing
- Additive manufacturing
- Advanced technologies
- Advanced manufacturing processes
- Supply-demand
- Production logistics

Optimal Industrial Systems
- Systems optimization
- Process optimization
- Control
- Decision systems
- Water–Energy Nexus

Industry 4.0
- Cyber-physical systems
- Digitalization
- IoT
- Cloud based systems
- Virtual reality
- Mixed reality
- Augmented reality
- Predictive maintenance
- Process modeling
- Data analytics
- Artificial intelligence

Environmental Footprints in Industry
- Environmental life cycle
- Material flow analysis
- Eco-design
- Resource efficiency
- Waste management
- Life Cycle Assessment/Life Cycle Cost
- Eco-efficiency
- Circular Economy
- Social Life Cycle Assessment

Industrial Sustainability
- Roadmapping and strategy
- Sustainable processes
- Circular economy
- Industrial symbiosis
- Business models
- Life cycle
- Raw materials
- Electric Energy Efficiency
- Thermal Energy Efficiency
- Heat recovery
- Thermal Energy Storage
- Renewable Energy
- Industrial Symbiosis/Manufacturing and Process Industry
- Sustainable production
- Sustainable Reutilization of Waste Materials
- Waste recovery and valorization technologies
- Restorative Economy

Sustainable Products and Services
- Product impacts
- Recycling
- Disposal
- Cradle-to-grave
- Reutilization
- Risk and safety
- Decision support tools
- Green growth business model

Industrial Safety
- Risk Management
- Occupational Safety