

Special Issue

Self-Healing Materials for Smart Manufacturing Systems

Message from the Guest Editors

We are delighted to announce a Special Issue titled “Self-Healing Materials for Smart Manufacturing Systems”. This Issue focuses on recent advances in innovative materials that enable smart, adaptive, and efficient manufacturing processes. The integration of advanced materials with automation, artificial intelligence, and data-driven techniques is transforming manufacturing toward more flexible and sustainable systems. We invite original research, reviews, and case studies addressing topics such as the design and characterization of smart materials, their role in cyber-physical manufacturing systems, and strategies for optimizing processes through material innovation and intelligent control. This Special Issue aims to gather interdisciplinary work that drives progress in Industry 4.0, fostering collaboration between researchers and industry professionals. Contributions that highlight challenges and solutions for sustainable manufacturing and circular economy are also welcome. We look forward to your submissions and to advancing the future of intelligent manufacturing together.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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