Special Issue

Advanced Processing and Polymeric Material Design for Integrated Sensing Technologies

Message from the Guest Editors

This Special Issue brings together cutting-edge research at the intersection of advanced manufacturing, advanced materials, and sensors technologies, thereby emphasizing their collective role in driving innovation across critical sectors. As modern manufacturing evolves toward greater precision, flexibility, and integration with digital systems, the development and application of novel materials ranging from nanostructured composites and bioinspired polymers to multifunctional smart materials are playing a pivotal role in enabling the next generation of sensor technologies. Contributions included in this Special Issue span a broad spectrum of topics, including additive manufacturing, micro- and nanoscale fabrication, sustainable processing methods, machine learning-assisted material design, and in situ characterization techniques. Emphasis is placed on interdisciplinary approaches that integrate materials science, engineering, and computational modeling to solve complex By showcasing recent advances and emerging trends, this Special Issue aims to foster collaboration across disciplines and to accelerate the translation of scientific discoveries into applications.

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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