

## Special Issue

# Advances in Polymer Composites for Nanogenerator Applications

### Message from the Guest Editors

The rapid advancement in energy harvesting technologies has positioned nanogenerators as a pivotal solution for powering self-sustained systems. This Special Issue focuses on recent breakthroughs and emerging trends in polymer composites for nanogenerator applications, emphasizing both fundamental research and practical implementations. The scope includes, but is not limited to, the development of novel polymer composites incorporating nanoparticles, 2D materials, and hybrid systems to enhance energy conversion efficiency; cutting-edge fabrication techniques and scalable device architectures; and the study of structure–property relationships to optimize device performance for piezoelectric, triboelectric, and hybrid nanogenerators. Furthermore, we welcome contributions on the integration of these materials into wearable electronics, IoT devices, self-powered sensors, and biomedical systems, along with research addressing sustainability, recyclability, and improved durability of polymer composites.

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### Guest Editors

Dr. Swathi Ippili  
Dr. Venkatraju Jella  
Prof. Dr. Soon-Gil Yoon

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### Deadline for manuscript submissions

closed (25 December 2025)



## Polymers

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### Message from the Editor-in-Chief

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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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