Special Issue

Graphene Nanocomposites: Environmentally Friendly Synthesis and Applications

Message from the Guest Editors

Graphene nanocomposites have gained vast attention due to their ultrafine size and shape-dependent physicochemical properties. Indeed, novel synthesis of graphene nanocomposites deserves special attention. Several routes including chemical and physical synthetic methods are proposed for the preparation of such nanocomposites. However, to avoid environmental drawbacks and high production cost, environmentally friendly synthesis has been largely focused on. Since the microstructure and properties are extremely tunable via green synthetic methods, it is very interesting to investigate the graphene nanocomposites derived from such methods. In this Special Issue, we invite authors to submit original research and review articles that focus on environmentally feasible synthesis and applications of graphene nanocomposites. Particularly, the preparation of graphene nanocomposites under environmentally feasible conditions (without using toxic reagents) is one of the main focuses of this Special Issue. Potential applications of graphene nanocomposites in energy storage, catalysis, sensors, and biomedical, are also of interest.

Guest Editors

Prof. Dr. Ick Soo Kim

Nano Fusion Technology Research Group, Division of Frontier Fibers, Institute for Fiber Engineering (IFES), Interdisciplinary Cluster for Cutting Edge Research (ICCER), Shinshu University, Tokida 3-15-1, Ueda, Nagano Prefecture 386-8567, Japan

Prof. Dr. Seoung Hun KIM

Department of Organic and Nano Engineering, Hanyang University, 222 Wangsimni-ro, Seongdong-gu, Seoul, 04763, Korea

Deadline for manuscript submissions

closed (31 August 2020)

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/31357

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

mdpi.com/journal/catalysts

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/journal/catalysts

MDPI

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).