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Carbon-Based Functional Materials

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Deadline for manuscript submissions:

closed (20 July 2023)

Message from the Guest Editors

Developing eco-friendly functional materials for energy, luminescence and information-storage applications is currently one of the most important challenges faced by scientists in the relevant fields. Carbon-based materials including C₃N₄, diamond, graphene, carbon nanotube, and carbon nanodot are biocompatible and have achieved great advances in the fields of energy conversion, catalysis, luminescence, antimicrobials, illumination and so on.

Carbon-based functional materials become so popular in modern society due to their nontoxic properties, low cost and versatility. This topic aims to collect the latest progress in carbon-based functional materials in all field. Original articles, perspectives, case studies and review papers are all welcome. Which cover, but are not limited to, the following topics:

- Carbon-based luminescent materials;
- Novel routes for carbon-based functional materials;
- Carbon-based materials for energy production and storage;
- Carbon-based materials for catalysis;
- Carbon-based materials for lighting and displaying;
- Carbon-based antibacterial materials;
- Mechanism study of carbon-based materials;
- Structure and performance characterization.



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Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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