Special Issue

Advances in Synthetic Diamond Materials (Second Edition)

Message from the Guest Editor

This Special Issue on “Advances in Synthetic Diamond Materials” invites scientists, designers, and engineers to publish their recent achievements concerning the material properties and characteristics of single crystal and polycrystalline CVD diamonds, and how these can be utilized. Topics of interest encompass optics, electronics, and electrochemistry. We expect articles to summarize how CVD diamonds can be tailored for specific applications, on the basis of their ability to synthesize a consistent and engineered high-performance product. The Special Issue will cover (but not restricted) the following areas:

- Methods of diamond materials’ synthesis.
- Characterization of diamond materials (optical, electrical, structural, mechanical, etc.).
- Tailoring diamonds to their end application as chemo- and bio-sensors, transducers, optical elements, electronic devices, etc.
- Environmental applications and water treatment.
- Smart materials and systems.

Full papers, communications, and reviews are welcome.

Guest Editor

Prof. Dr. Kazimierz Fabisiak
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Deadline for manuscript submissions

closed (20 August 2025)

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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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