

Materials Chemistry and Physics

SPECIAL ISSUE ON AMORPHOUS AND NANOCRYSTALLINE CARBON FILMS: DEVELOPMENT AND APPLICATION

The issue is dedicated to the memory of the late Professor Mildred S. Dresselhaus (1930-2017).



Executive Guest Editor



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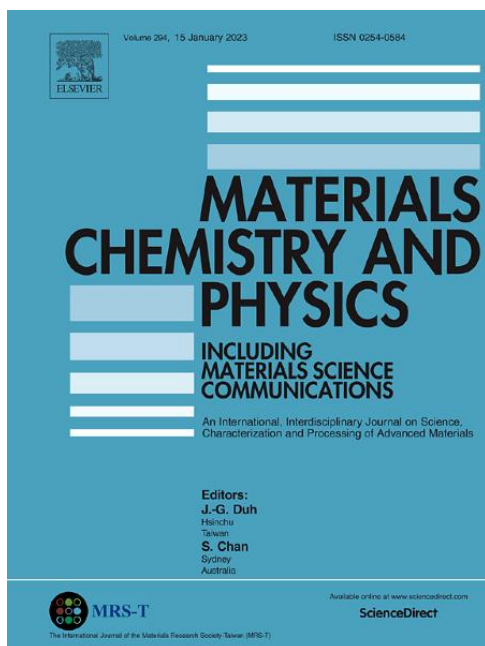
The field of amorphous and nanocrystalline carbon films has grown tremendously during the last ten years. Depending on the precursor and fabrication conditions, the film can be in the form of crystalline carbon (e.g., graphite, graphene and diamond) or amorphous carbon (e.g., turbostratic carbon and diamond-like carbon), with a wide range of microstructure and with electrical properties ranging from conductors to insulators. This special issue aims to provide a coherent view of the field, with coverage of the fabrication, structure, properties and applications, along with their relationships. The applications exploit the electrical, electromagnetic, optical, mechanical, chemical, electrochemical and thermal behavior.



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- Graphite
- Graphene
- Diamond
- Amorphous carbon
- Turbostratic carbon
- Diamond-like carbon
- Film
- Nanomaterial

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Special Issue Website:

<https://www.sciencedirect.com/journal/materials-chemistry-and-physics/about/call-for-papers#amorphous-and-nanocrystalline-carbon-films-development-and-applications>

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