Special Issue

Laser and Plasma Processing of Advanced Functional Materials for Magnetic, Electrotechnical and Electrochemical Applications

Message from the Guest Editors

The aim of this SI is to cover all relevant aspects of materials science, highlighting the benefits of laser and plasma processing. Thus, submissions on laser ablation—in vacuum, in a controlled atmosphere, or in liquids—are all welcomed. Accordingly, this joint Special Issue welcomes manuscripts on the challenges and trends covering research, with a special focus on the design, synthesis, and characterization of any type of advanced functional materials, including:

- Magnetic materials and compounds—including glasses and ceramics (metals, oxides, non-oxides, composites, etc.); ferroelectric materials and multiferroics; and superconductivity materials and their response to magnetic fields;
- Carbon allotropes and structures—including diamond and diamond-like carbon (amorphous carbon); graphite, fullerenes, and carbon sheets (graphene, nanotubes, nanobuds, nanowalls, and nanoribbons); and carbon fiber composites; activated carbon, and carbonaceous nanomaterials;
- Organometallics and hybrid MOF materials—including for electrochemical synthesis, electroanalytical methods, and sensor applications;

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About the Journal

Message from the Editor-in-Chief

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