Special Issue

Synthesis and Applications of Novel Functional Materials

Message from the Guest Editors

Functional materials are widely applied in various fields due to their exceptional properties, such as magnetism, catalysis, and electrical and optical properties, high specific surface area, and superior mechanical properties. They are advanced materials designed and synthesized for specific functions, with tailored properties. Driven by recent advances in science and technology innovation, sustainable and green applications using functional materials are becoming increasingly popular. Novel functional materials can be developed by using a combination of organic and inorganic, sustainable biomass with or without polymers and nanomaterials. In response to sustainable development and societal challenges, researchers and engineers have recently focused their attention on designing and synthesizing emergent, novel functional materials for aerospace, biomedical, electronic, energy, and environmental applications. This revolution of novel functional materials and interfaces will accelerate the advancement of science and technology towards a sustainable and green world.

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