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Anisotropic Functional Nanomaterials: Preparations, Characterizations, and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Anisotropic one- and two-dimensional nanoscale building blocks have fascinating and elegant physical and chemical properties that are dependent on their morphology and dimensions. In addition to the unique properties of anisotropic nanomaterials themselves, new functionalities can be actualized by surface modification and composites of anisotropic nanomaterials. In fact, it is expected that various types of anisotropic nanomaterials will be utilized in modern engineering practice in the near future; for example, different types of nanostructured thin films, fibrous composites, laminates, and multifunctional composites including anisotropic nanomaterials.

This Special Issue (SI) will compile recent progress in research and development in the field of anisotropic nanomaterials with useful properties. The articles presented in this SI will cover various topics, ranging from but not limited to the optimization of fabrication methods of anisotropic nanomaterials, composite preparations, the functionalization of surfaces, sensors, catalysis, electronic devices, and solar cells, among others.

Dr. Takashi Ikuno
Guest Editor

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Message from the Editor-in-Chief

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