



Design of Functional Nanomaterial Architectures: From One Dimensional to Multi-Dimensional

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Message from the Guest Editor

Dear Colleagues,

Industrial design in the 19th and 20th century touted the phrase ‘form follows function’, meaning the shape of a building or structure should reflect its intended purpose. In the nanodomain, this phrase is inverted, ‘function follows form’, as the purpose and properties of a structure are defined by its shape and architecture.

Nanomaterials have huge potential to disrupt technologies across nearly all aspects of modern life through physics, miniaturized electronics, renewable energy devices, and tissue engineering. These tiny, precisely structured materials are exceptional because of their quantum confined properties—and unlocking these exceptional properties in macroscale devices requires intelligent assembly into complex multidimensional shapes.

This Special Issue is aimed at exploring how nanomaterials can be designed, grown, or assembled into multidimensional functional architectures, encompassing modeling, synthesis, and processing of nanomaterials, with a focus on how the nano-architectures add application specificity to 0D, 1D or 2D nanomaterials.





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Message from the Editor-in-Chief

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