CALL FOR PAPERS

One of grand challenges for next generation devices is precise design, control, and optimization of material nanostructures to enhance their functionalities in response to the need of emerging technologies. Therefore, the progress in the development of artificial nanostructures for novel functionalities has been identified as a key to realize electronic, optoelectronic, energy, sensor, bio/medical, and environmental applications of advanced materials that cannot be achieved using traditional material structures. This special issue focuses on advanced materials with emphasis on artificial nanostructuring to create novel functionalities or to significantly enhance existing functionalities. It covers all aspects of functional materials including synthesis, characterization, and device applications. We invite submission of review articles and original research papers covering the following topics (but not limited to).

- Synthesis and fabrication of materials with artificial nanostructures
- Characterizations of artificial nanostructures
- Applications of materials with artificial nanostructures: electronics, photovoltaics, light emitting devices, batteries, fuel cells, sensors, photoelectrochemical cells, thermoelectrics, magnetoelectrics, catalysis, and water/air purification
- Modeling and simulation of artificial nanostructures for novel functionalities

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Important Dates

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