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## Functional Nanoparticle Arrays

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Deadline for manuscript  
submissions:

**closed (31 January 2022)**

### Message from the Guest Editor

Nanoparticle arrays, in which particles with well-defined and tailored structures, sizes and compositions behave as artificial atoms and are arranged in controlled patterns, have attracted tremendous attention in the last few decades because of their unique chemical and physical properties, which are quite different from those of bulk materials. The size and interparticle spacing of the nanoparticles that constitute nanostructures can have a dramatic effect on their properties. The electrical, optical and magnetic properties of nanoparticle-based nanostructures can be tuned to a substantial degree by varying the particle–particle interactions. The most critical factor in the realization of nanoparticle-based technology is the development of effective methods for the controllable fabrication of high-density nanoparticle films with defined size, density and functional structures in various dimensions.

This Special Issue will be dedicated to all nanoparticle arrays and related researches. Original research papers, short communications or state-of-the-art reviews are all welcome.



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## Message from the Editor-in-Chief

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