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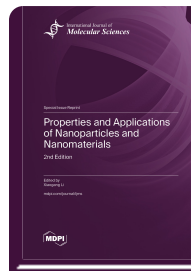
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Properties and Applications of Nanoparticles and Nanomaterials

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Nanomaterials have rapidly developed, and attention surrounding their use has increased in recent years. The emergence of various nanomaterials, i.e., nanoparticles, nano-grained alloys, and gradient nanostructures, is expected to make it possible for materials with super or very special properties to be applied in unusual practical contexts. There is a wide range of applications for nanomaterials in biochemistry or molecular medicine, fuel cells or metal-ion batteries, and flexible electronics, as well as in various components related to energy. The physical and chemical properties of nanostructures are determined by their chemical composition and structure and are also affected by the formation process, which is critical for their reliability and their use in practical applications.



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