

Special Issue Reprint

Advances of Nanoparticles and Thin Films

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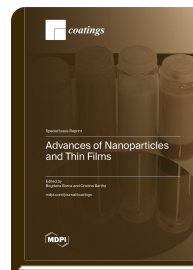
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ISBN 978-3-7258-4301-5 (Hardback)

ISBN 978-3-7258-4302-2 (PDF)



Nanoparticles and thin films are at the forefront of materials science due to their unique size-dependent properties and wide applicability across various technological fields. This reprint presents recent research focused on the development, fabrication, and functionalization of nanostructured systems. Topics include advanced methods for creating precisely structured nanoscale materials, green synthesis approaches, and the integration of nanomaterials into coatings, memory devices, sensors, and biomedical applications. The focus is on how structure, fabrication techniques, and material performance are interconnected. Studies also explore the applications of nanomaterials in targeted therapies, energy-efficient electronics, and smart multifunctional components. Continued advances in synthesis, characterization, and theoretical modeling are essential for optimizing these systems.

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