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ABSTRACT:

Chiral nanostructured materials

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Chiral nanomaterials have garnered significant attention in recent years due to their promising applications in various chiral processes. In this lecture, we present a series of examples showcasing the preparation and application of these materials. The discussed examples include (i) chiral nanoscale polymeric particles synthesized via miniemulsion polymerization of amino acid-based monomers, and (ii) hybrid inorganic/organic chiral thin films fabricated using molecular layer deposition. We will highlight our findings on utilizing these chiral nanosystems in applications such as chiral crystallization and stereoselective synthesis, demonstrating their potential to advance the field of molecular chirality.

References

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