

## Special Issue

# Crystal Engineering in the Pharmaceutical Sciences

### Message from the Guest Editor

As Desiraju noted, “crystal engineering”—a term coined more than sixty years ago—remains central to solid-state chemistry and the development, manufacturing, and control of pharmaceuticals. It focuses on understanding intermolecular interactions and crystal packing, and using this knowledge to design solids with desirable physical and chemical properties; in this way, it is closely linked to pharmaceutical development and formulation design. Crystal engineering is especially important for salts and cocrystals. For salts, a key concern is the risk of disproportionation; for cocrystals, questions include whether they can be prepared reproducibly, whether they are stable, and whether they deliver advantageous properties. In parallel, liposomal products and lipid-based nanocarriers provide complementary strategies for engineering drug microenvironments and performance. Avoiding late-appearing or hidden polymorphs—and using crystal-structure prediction to aid the discovery of all relevant polymorphs—remains a major area of focus. Finally, applications of crystal engineering to manufacturing pharmaceutical solids in space are of particular interest.

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### Guest Editor

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## Pharmaceuticals

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### Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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