ChemInform Abstract: Thin Films of Metals, Metal Chalcogenides and Oxides Deposited at the Water-Oil Interface Using Molecular Precursors

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Abstract

The interface between two immiscible liquids is emerging as a powerful medium for the growth and deposition of nanostructured thin films of metals and compound semiconductors. Materials obtained through this exceedingly simple route seem to often adopt fascinating forms and morphologies. In this article, we outline features unique to the interface that shape the striking deposits and highlight the nature and properties of nanostructured films obtained using this technique.