

Unimolecular and supramolecular electronics I : chemistry and physics meet at metal-molecule interfaces

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Abstrak

This book about charge transport in organic semiconductors, frontiers of organic conductors and superconductors, fullerenes, carbon nanotubes, and graphene for molecular electronics, current challenges in organic photovoltaic solar energy conversion, molecular monolayers as semiconducting channels in field effect transistors, issues and challenges in vapor-deposited top metal contacts for molecule-based electronic devices, and spin polarized electron tunneling and magnetoresistance in molecular junctions.