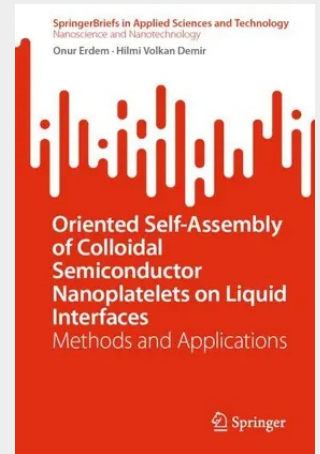


Oriented Self-Assembly of Colloidal Semiconductor Nanoplatelets on Liquid Interfaces

Methods and Applications

This book highlights the fabrication of orientation-controlled colloidal quantum well (nanoplatelet) thin films using liquid interface self-assembly. The book details methods for orientation-controlled deposition of CdSe core nanoplatelets for characterization of directional energy transfer in nanoplatelets and layer-by-layer construction of CdSe/CdZnS core/shell nanoplatelets to create optically active waveguides with precisely tunable thickness and excellent uniformity across device scale. It also provides a future outlook for construction of large-scale two- and three-dimensional nanoplatelet superstructures and their incorporation into device fabrication.

This book highlights the fabrication of orientation-controlled colloidal quantum well (nanoplatelet) thin films using liquid interface self-assembly. The book details methods for orientation-controlled deposition of CdSe core nanoplatelets for characterization of directional energy transfer in nanoplatelets and layer-by-layer construction of CdSe/CdZnS core/shell nanoplatelets to create optically active waveguides with precisely tunable thickness and excellent uniformity across device scale. It also provides a future outlook for construction of large-scale two- and three-dimensional nanoplatelet superstructures and their incorporation into device fabrication.



53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789811970511
Medium: Buch
ISBN: 978-981-19-7051-1
Verlag: Palgrave Macmillan
Erscheinungstermin: 28.10.2022
Sprache(n): Englisch
Auflage: 1. Auflage 2022
Serie: Nanoscience and Nanotechnology
Produktform: Kartoniert
Gewicht: 158 g
Seiten: 76
Format (B x H): 155 x 235 mm

