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Autore	Erdem Onur
Titolo	Oriented Self-Assembly of Colloidal Semiconductor Nanoplatelets on Liquid Interfaces : Methods and Applications / / by Onur Erdem, Hilmi Volkan Demir
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Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Colloidal Semiconductor Nanocrystals -- Chapter 3. Self-Assembly at Liquid Interfaces -- Chapter 4. Liquid Interface Self-Assembly with Colloidal Quantum Wells -- Chapter 5. Self-Assembled Colloidal Quantum Wells for Optoelectronics -- Conclusion .
Sommario/riassunto	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.
