Detlef M Smilgies

List of Publications by Year
in descending order

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301 papers	16,738 citations	10351 72 h-index	19690 117 g-index
322 all docs	322 docs citations	322 times ranked	18080 citing authors

#	Article	IF	Citations
1	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. Energy and Environmental Science, 2017, 10, 2095-2102.	15.6	588
2	Scherrer grain-size analysis adapted to grazing-incidence scattering with area detectors. Journal of Applied Crystallography, 2009, 42, 1030-1034.	1.9	573
3	A Bicontinuous Double Gyroid Hybrid Solar Cell. Nano Letters, 2009, 9, 2807-2812.	4.5	446
4	Nanostructure Dependence of Field-Effect Mobility in Regioregular Poly(3-hexylthiophene) Thin Film Field Effect Transistors. Journal of the American Chemical Society, 2006, 128, 3480-3481.	6.6	439
5	Induction of Circularly Polarized Electroluminescence from an Achiral Lightâ€Emitting Polymer via a Chiral Smallâ€Molecule Dopant. Advanced Materials, 2013, 25, 2624-2628.	11.1	365
6	Crystallization Kinetics of Organicâ€“Inorganic Trihalide Perovskites and the Role of the Lead Anion in Crystal Growth. Journal of the American Chemical Society, 2015, 137, 2350-2358.	6.6	326
7	Origin of vertical orientation in two-dimensional metal halide perovskites and its effect on photovoltaic performance. Nature Communications, 2018, 9, 1336.	5.8	323
8	High-Lamellar Ordering and Amorphous-Like Ï€-Network in Short-Chain Thiazolothiazoleâ€“Thiophene Copolymers Lead to High Mobilities. Journal of the American Chemical Society, 2009, 131, 2521-2529.	6.6	264
9	Phase Transition Control for High Performance Ruddlesdenâ€“Popper Perovskite Solar Cells. Advanced Materials, 2018, 30, e1707166.	11.1	244
10	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. Nature Communications, 2015, 6, 8598.	5.8	219
11	Kinetics of the self-assembly of nanocrystal superlattices measured by real-time in situ X-rayÂscattering. Nature Materials, 2016, 15, 775-781.	13.3	216
12	Long-Range Ordered Thin Films of Block Copolymers Prepared by Zone-Casting and Their Thermal Conversion into Ordered Nanostructured Carbon. Journal of the American Chemical Society, 2005, 127, 6918-6919.	6.6	214
13	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. Nature Communications, 2018, 9, 5302.	5.8	212
14	Preparation, Structure, and Optical Properties of Nanoporous Gold Thin Films. Langmuir, 2007, 23, 2414-2422.	1.6	206
15	Controlling Nanocrystal Superlattice Symmetry and Shape-Anisotropic Interactions through Variable Ligand Surface Coverage. Journal of the American Chemical Society, 2011, 133, 3131-3138.	6.6	198
16	High performance ambient-air-stable FAPbI₃ perovskite solar cells with molecule-passivated Ruddlesdenâ€“Popper/3D heterostructured film. Energy and Environmental Science, 2018, 11, 3358-3366.	15.6	196
17	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. Journal of the American Chemical Society, 2019, 141, 2684-2694.	6.6	189
18	Shape-Anisotropy Driven Symmetry Transformations in Nanocrystal Superlattice Polymorphs. ACS Nano, 2011, 5, 2815-2823.	7.3	188

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19	Order Parameters and Areas in Fluid-Phase Oriented Lipid Membranes Using Wide Angle X-Ray Scattering. Biophysical Journal, 2008, 95, 669-681.	0.2	186
20	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. Joule, 2018, 2, 1313-1330.	11.7	180
21	Tetrathienoacene Copolymers As High Mobility, Soluble Organic Semiconductors. Journal of the American Chemical Society, 2008, 130, 13202-13203.	6.6	178
22	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. ACS Energy Letters, 2018, 3, 1078-1085.	8.8	171
23	Cellulose microfibril crystallinity is reduced by mutating C-terminal transmembrane region residues CESA1 ^{A903V} and CESA3 ^{T942I} of cellulose synthase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4098-4103.	3.3	165
24	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. Nano Letters, 2019, 19, 7181-7190.	4.5	163
25	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. Joule, 2019, 3, 1746-1764.	11.7	159
26	Solvent Additive Effects on Small Molecule Crystallization in Bulk Heterojunction Solar Cells Probed During Spin Casting. Advanced Materials, 2013, 25, 6380-6384.	11.1	156
27	Hybrid Perovskite Thinâ€Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. Advanced Materials, 2017, 29, 1604113.	11.1	155
28	Columnar Self-Assembly of Colloidal Nanodisks. Nano Letters, 2006, 6, 2959-2963.	4.5	149
29	Control of Self-Assembly of Lithographically Patternable Block Copolymer Films. ACS Nano, 2008, 2, 1396-1402.	7.3	149
30	Strain in Nanoscale Germanium Hut Clusters on Si(001) Studied by X-Ray Diffraction. Physical Review Letters, 1996, 77, 2009-2012.	2.9	148
31	Crystal and electronic structures of pentacene thin films from grazing-incidence x-ray diffraction and first-principles calculations. Physical Review B, 2007, 76, .	1.1	147
32	Self-Assembled Simple Hexagonal AB₂ Binary Nanocrystal Superlattices: SEM, GISAXS, and Defects. Journal of the American Chemical Society, 2009, 131, 3281-3290.	6.6	143
33	Surface Atomic Structure of KDP Crystals in Aqueous Solution: An Explanation of the Growth Shape. Physical Review Letters, 1998, 80, 2229-2232.	2.9	140
34	Grazing-incidence small-angle X-ray scattering from thin polymer films with lamellar structures â€“ the scattering cross section in the distorted-wave Born approximation. Journal of Applied Crystallography, 2006, 39, 433-442.	1.9	136
35	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. ACS Nano, 2017, 11, 8329-8338.	7.3	136
36	Highly Efficient Ruddlesdenâ€“Popper Halide Perovskite PA₂MA₄Pb₅I₁₆ Solar Cells. ACS Energy Letters, 2018, 3, 1975-1982.	8.8	135

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37	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. Journal of Materials Chemistry C, 2015, 3, 2528-2538.	2.7	130
38	One-dimensional self-confinement promotes polymorph selection in large-area organic semiconductor thin films. Nature Communications, 2014, 5, 3573.	5.8	129
39	Scalable Ambient Fabrication of High-Performance CsPbI2Br Solar Cells. Joule, 2019, 3, 2485-2502.	11.7	124
40	Alkylsubstituted Thienothiophene Semiconducting Materials: Structureâ^'Property Relationships. Journal of the American Chemical Society, 2009, 131, 11930-11938.	6.6	122
41	Subsurface Dimerization in III-V Semiconductor (001) Surfaces. Physical Review Letters, 2001, 86, 3586-3589.	2.9	121
42	Reconstructing a solid-solid phase transformation pathway in CdSe nanosheets with associated soft ligands. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17119-17124.	3.3	120
43	Solvent-Mediated Self-Assembly of Nanocube Superlattices. Journal of the American Chemical Society, 2014, 136, 1352-1359.	6.6	120
44	Controlling nucleation, growth, and orientation of metal halide perovskite thin films with rationally selected additives. Journal of Materials Chemistry A, 2017, 5, 113-123.	5.2	115
45	Highly Stable Semiconducting Polymers Based on Thiazolothiazole. Chemistry of Materials, 2010, 22, 4191-4196.	3.2	108
46	New Bonding Configuration on Si(111) and Ge(111) Surfaces Induced by the Adsorption of Alkali Metals. Physical Review Letters, 1998, 80, 3980-3983.	2.9	104
47	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 23240-23248.	1.5	104
48	Spatially Controlled Fabrication of Nanoporous Block Copolymers. Chemistry of Materials, 2004, 16, 3800-3808.	3.2	100
49	Exploiting Molecular Weight Distribution Shape to Tune Domain Spacing in Block Copolymer Thin Films. Journal of the American Chemical Society, 2018, 140, 4639-4648.	6.6	99
50	Additive-Driven Phase-Selective Chemistry in Block Copolymer Thin Films: The Convergence of Topâ€"Down and Bottomâ€"Up Approaches. Advanced Materials, 2004, 16, 953-957.	11.1	97
51	Structure and growth morphology of an archetypal system for organic epitaxy: PTCDA on Ag(111). Physical Review B, 2002, 66, .	1.1	96
52	Conducting Block Copolymers of Regioregular Poly(3â€hexylthiophene) and Poly(methacrylates): Electronic Materials with Variable Conductivities and Degrees of Interfibrillar Order. Macromolecular Rapid Communications, 2007, 28, 1816-1824.	2.0	95
53	Inner Structure of Thin Films of Lamellar Poly(styrene-b-butadiene) Diblock Copolymers As Revealed by Grazing-Incidence Small-Angle Scattering. Macromolecules, 2007, 40, 630-640.	2.2	93
54	Impact of Size Dispersity, Ligand Coverage, and Ligand Length on the Structure of PbS Nanocrystal Superlattices. Chemistry of Materials, 2018, 30, 807-816.	3.2	93

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55	Widely Tunable Morphologies in Block Copolymer Thin Films Through Solvent Vapor Annealing Using Mixtures of Selective Solvents. Advanced Functional Materials, 2015, 25, 3057-3065.	7.8	86
56	Reducing the confinement of PBDB-T to ITIC to improve the crystallinity of PBDB-T/ITIC blends. Journal of Materials Chemistry A, 2018, 6, 15610-15620.	5.2	86
57	Monitoring In Situ Growth and Dissolution of Molecular Crystals: Towards Determination of the Growth Units. Angewandte Chemie International Edition in English, 1997, 36, 955-959.	4.4	85
58	Solvent-Induced Surface Morphology of Thin Polymer Films. Macromolecules, 2001, 34, 1369-1375.	2.2	85
59	Structural Rearrangements in a Lamellar Diblock Copolymer Thin Film during Treatment with Saturated Solvent Vapor. Macromolecules, 2010, 43, 418-427.	2.2	85
60	Transistor Paint: Environmentally Stable Nâ€alkyldithienopyrrole and Bithiazoleâ€Based Copolymer Thinâ€Film Transistors Show Reproducible High Mobilities without Annealing. Advanced Functional Materials, 2009, 19, 3427-3434.	7.8	83
61	Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 21766-21774.	4.0	82
62	Molecular Self-Assembly at Bare Semiconductor Surfaces: Characterization of a Homologous Series of n-Alkanethiolate Monolayers on GaAs(001). ACS Nano, 2007, 1, 30-49.	7.3	79
63	The Role of Ligand Packing Frustration in Body-Centered Cubic (bcc) Superlattices of Colloidal Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 2406-2412.	2.1	79
64	Tuning Molecular Relaxation for Vertical Orientation in Cylindrical Block Copolymer Films via Sharp Dynamic Zone Annealing. Macromolecules, 2012, 45, 7107-7117.	2.2	78
65	Troika II: a versatile beamline for the study of liquid and solid interfaces. Journal of Synchrotron Radiation, 2005, 12, 329-339.	1.0	76
66	Interface-Induced Nucleation, Orientational Alignment and Symmetry Transformations in Nanocube Superlattices. Nano Letters, 2012, 12, 4791-4798.	4.5	76
67	Kinetic Stabilization of the Solâ€“Gel State in Perovskites Enables Facile Processing of Highâ€Efficiency Solar Cells. Advanced Materials, 2019, 31, e1808357.	11.1	76
68	X-ray diffraction studies of potassium dihydrogen phosphate (KDP) crystal surfaces. Journal of Crystal Growth, 1999, 205, 202-214.	0.7	75
69	Structure/Processing Relationships of Highly Ordered Lead Salt Nanocrystal Superlattices. ACS Nano, 2009, 3, 2975-2988.	7.3	75
70	Molecular weightâ€“gyration radius relation of globular proteins: a comparison of light scattering, small-angle X-ray scattering and structure-based data. Journal of Applied Crystallography, 2015, 48, 1604-1606.	1.9	75
71	Robust Control of Microdomain Orientation in Thin Films of Block Copolymers by Zone Casting. Journal of the American Chemical Society, 2011, 133, 11802-11809.	6.6	74
72	Look fast: Crystallization of conjugated molecules during solution shearing probed inâ€situ and in real time by Xâ€ray scattering. Physica Status Solidi - Rapid Research Letters, 2013, 7, 177-179.	1.2	73

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73	Lamellar Diblock Copolymer Thin Films Investigated by Tapping Mode Atomic Force Microscopy:Â Molar-Mass Dependence of Surface Ordering. Macromolecules, 2003, 36, 8717-8727.	2.2	72
74	Indexation scheme for oriented molecular thin films studied with grazing-incidence reciprocal-space mapping. Journal of Applied Crystallography, 2007, 40, 716-718.	1.9	72
75	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. ACS Applied Materials & Interfaces, 2019, 11, 17570-17582.	4.0	72
76	Probing in Real Time the Soft Crystallization of DNAâ€Capped Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 380-384.	7.2	71
77	Contactâ€Induced Nucleation in Highâ€Performance Bottomâ€Contact Organic Thin Film Transistors Manufactured by Largeâ€Area Compatible Solution Processing. Advanced Functional Materials, 2016, 26, 2371-2378.	7.8	71
78	Direct Structural Mapping of Organic Fieldâ€Effect Transistors Reveals Bottlenecks to Carrier Transport. Advanced Materials, 2012, 24, 5553-5558.	11.1	70
79	Restructuring in block copolymer thin films: In situ GISAXS investigations during solvent vapor annealing. Progress in Polymer Science, 2017, 66, 80-115.	11.8	68
80	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. Journal of Materials Chemistry A, 2020, 8, 1095-1104.	5.2	68
81	Guiding Crystallization around Bends and Sharp Corners. Advanced Materials, 2012, 24, 2692-2698.	11.1	62
82	The quantum-confined Stark effect in layered hybrid perovskites mediated by orientational polarizability of confined dipoles. Nature Communications, 2018, 9, 4214.	5.8	61
83	Observation of Capillary Waves on Liquid Thin Films from Mesoscopic to Atomic Length Scales. Physical Review Letters, 1999, 83, 3470-3473.	2.9	59
84	Melting and Sintering of a Body-Centered Cubic Superlattice of PbSe Nanocrystals Followed by Small Angle X-ray Scattering. Journal of Physical Chemistry C, 2011, 115, 6397-6404.	1.5	59
85	Using Molecular Design to Increase Hole Transport: Backbone Fluorination in the Benchmark Material		

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91	Structural Instabilities in Lamellar Diblock Copolymer Thin Films During Solvent Vapor Uptake. Langmuir, 2008, 24, 13815-13818.	1.6	55
92	Molecular Self-Assembly at Bare Semiconductor Surfaces: Cooperative Substrateâ˜'Molecule Effects in Octadecanethiolate Monolayer Assemblies on GaAs(111), (110), and (100). ACS Nano, 2010, 4, 3447-3465.	7.3	55
93	Scherrer grain-size analysis adapted to grazing-incidence scattering with area detectors. Erratum. Journal of Applied Crystallography, 2013, 46, 286-286.	1.9	55
94	Crystalline Gibbs Monolayers of DNA-Capped Nanoparticles at the Airâ€“Liquid Interface. ACS Nano, 2011, 5, 7978-7985.	7.3	53
95	Surface engineering of styrene/PEGylatedâ€fluoroalkyl styrene block copolymer thin films. Journal of Polymer Science Part A, 2009, 47, 267-284.	2.5	52
96	Reversible Kirkwoodâ€“Alder Transition Observed in Pt₃Cu₂ Nanoctahedron Assemblies under Controlled Solvent Annealing/Drying Conditions. Journal of the American Chemical Society, 2012, 134, 14043-14049.	6.6	52
97	Ordered Structure Rearrangements in Heated Gold Nanocrystal Superlattices. Nano Letters, 2013, 13, 5710-5714.	4.5	52
98	GISAXS Characterization of Order in Hexagonal Monolayers of FePt Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 14427-14432.	1.5	50
99	Low Packing Density Self-Assembled Superstructure of Octahedral Pt₃Ni Nanocrystals. Nano Letters, 2011, 11, 2912-2918.	4.5	50
100	Two-dimensional gold trisoctahedron nanoparticle superlattice sheets: self-assembly, characterization and immunosensing applications. Nanoscale, 2018, 10, 5065-5071.	2.8	50
101	An Efficient Route to Mesoporous Silica Films with Perpendicular Nanochannels. Advanced Materials, 2008, 20, 246-251.	11.1	49
102	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. Polymer, 2014, 55, 1327-1332.	1.8	49
103	Coherent x-ray diffraction imaging of silicon oxide growth. Physical Review B, 1999, 60, 9965-9972.	1.1	48
104	Evidence for a soft-phonon mechanism in the reconstruction of the Mo(001) surface. Physical Review B, 1989, 40, 1338-1340.	1.1	46
105	Heterogeneous Nucleation Promotes Carrier Transport in Solutionâ€Processed Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2013, 23, 291-297.	7.8	46
106	Crystallization of DNAâ€Capped Gold Nanoparticles in Highâ€Concentration, Divalent Salt Environments. Angewandte Chemie - International Edition, 2014, 53, 1316-1319.	7.2	46
107	Geometry-independent intensity correction factors for grazing-incidence diffraction. Review of Scientific Instruments, 2002, 73, 1706-1710.	0.6	45
108	Multilayer X-ray optics at CHESS. Journal of Synchrotron Radiation, 2006, 13, 204-210.	1.0	45

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109	Impact of the Solvation State of Lead Iodide on Its Twoâ€Step Conversion to MAPbI₃: An In Situ Investigation. Advanced Functional Materials, 2019, 29, 1807544.	7.8	45
110	Solvent Vapor Annealing in the Molecular Regime Drastically Improves Carrier Transport in Small-Molecule Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 2325-2330.	4.0	44
111	Poly(N-isopropylacrylamide) Surfactant-Functionalized Responsive Silver Nanoparticles and Superlattices. ACS Nano, 2014, 8, 4799-4804.	7.3	44
112	Vertical alignment of multilayered quantum dots studied by x-ray grazing-incidence diffraction. Physical Review B, 1999, 60, 2516-2521.	1.1	43
113	Surface Induced Tilt Propagation in Thin Films of Semifluorinated Liquid Crystalline Side Chain Block Copolymers. Macromolecules, 2007, 40, 81-89.	2.2	43
114	Rational Design of Organic Semiconductors for Texture Control and Selfâ€Patterning on Halogenated Surfaces. Advanced Functional Materials, 2014, 24, 5052-5058.	7.8	43
115	Understanding Hydrogen Bonding Interactions in Crosslinked Methylammonium Lead Iodide Crystals: Towards Reducing Moisture and Light Degradation Pathways. Angewandte Chemie - International Edition, 2019, 58, 13912-13921.	7.2	43
116	Bismuthâ€Based Perovskiteâ€Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuthâ€•and Leadâ€Based Films. Solar Rrl, 2019, 3, 1800305.	3.1	41
117	Self-assembled propylammonium cations at grain boundaries and the film surface to improve the efficiency and stability of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 23739-23746.	5.2	41
118	Roomâ€Temperature Partial Conversion of Î±â€FAPbI₃Perovskite Phase via PbI₂Solvation Enables Highâ€Performance Solar Cells. Advanced Functional Materials, 2020, 30, 1907442.	7.8	41
119	Entropic, Enthalpic, and Kinetic Aspects of Interfacial Nanocrystal Superlattice Assembly and Attachment. Chemistry of Materials, 2018, 30, 54-63.	3.2	40
120	Observation of intermediate-range order in a nominally amorphous molecular semiconductor film. Journal of Materials Chemistry, 2007, 17, 1458-1461.	6.7	39
121	Stepwise Swelling of a Thin Film of Lamellae-Forming Poly(styrene-b-butadiene) in Cyclohexane Vapor. Macromolecules, 2012, 45, 5185-5195.	2.2	39
122	Resolution and intensity considerations of an ideal He atom timeâ€ofâ€flight spectrometer for measurements of surface phonon dispersion curves. Review of Scientific Instruments, 1988, 59, 2185-2194.	0.6	38
123	Stacking of Hexagonal Nanocrystal Layers during Langmuirâ€“Blodgett Deposition. Journal of Physical Chemistry B, 2012, 116, 6017-6026.	1.2	38
124	2D Freestanding Janus Gold Nanocrystal Superlattices. Advanced Materials, 2019, 31, e1900989.	11.1	38
125	Importance of C2 Symmetry for the Device Performance of a Newly Synthesized Family of Fused-Ring Thiophenes. Chemistry of Materials, 2010, 22, 2770-2779.	3.2	36
126	A disordered layered phase in thin films of sexithiophene. Chemical Physics Letters, 2013, 574, 51-55.	1.2	36

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127	Structure formation in P3HT/F8TBT blends. Energy and Environmental Science, 2014, 7, 1725-1736.	15.6	36
128	In Situ Study of Evaporation-Induced Surface Structure Evolution in Asymmetric Triblock Terpolymer Membranes. Macromolecules, 2016, 49, 4195-4201.	2.2	35
129	Pathways to Mesoporous Resin/Carbon Thin Films with Alternating Gyroid Morphology. ACS Nano, 2018, 12, 347-358.	7.3	35
130	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. Faraday Discussions, 2015, 181, 181-192.	1.6	34
131	Controlling Polymorphism in Pharmaceutical Compounds Using Solution Shearing. Crystal Growth and Design, 2018, 18, 602-606.	1.4	34
132	On the coexistence of different polymorphs in organic epitaxy: Î± and Î² phase of PTCDA on Ag(1 1 1). Applied Surface Science, 2001, 175-176, 332-336.	3.1	33
133	Self-Assembly and Thermal Stability of Binary Superlattices of Gold and Silicon Nanocrystals. Journal of Physical Chemistry Letters, 2013, 4, 3677-3682.	2.1	33
134	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. Nano Letters, 2016, 16, 7814-7821.	4.5	33
135	Wide and Tunable Bandgap MAPbBr_{3â^'x}Cl_x Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. Solar Rrl, 2021, 5, 2000718.	3.1	32
136	Surface morphology and in-plane-epitaxy of SmBa2Cu3O7â^'Î´ films on SrTiO3 (001) substrates studied by STM and grazing incidence x-ray diffraction. Solid State Communications, 1996, 98, 157-161.	0.9	31
137	In-plane alignment of para-sexiphenyl films grown on KCl(0 0 1). Applied Surface Science, 2002, 189, 24-30.	3.1	31
138	Stepwise Self-Assembly of Ordered Supramolecular Assemblies Based on Coordination Chemistry. Langmuir, 2006, 22, 2082-2089.	1.6	31
139	X-ray diffraction study of a semiconductor/electrolyte interface:. Surface Science, 1996, 352-354, 346-351.	0.8	30
140	Solvent vapor annealing of an insoluble molecular semiconductor. Journal of Materials Chemistry, 2010, 20, 2623.	6.7	30
141	The Diffraction Pattern Calculator(DPC) toolkit: a user-friendly approach to unit-cell lattice parameter identification of two-dimensional grazing-incidence wide-angle X-ray scattering data. Journal of Applied Crystallography, 2014, 47, 2090-2099.	1.9	30
142	Morphology and growth kinetics of organic thin films deposited by hot wall epitaxy. Organic Electronics, 2004, 5, 23-27.	1.4	29
143	Reciprocal space mapping and single-crystal scattering rods. Journal of Synchrotron Radiation, 2005, 12, 807-811.	1.0	29
144	Thermal Stability of the Black Perovskite Phase in Cesium Lead Iodide Nanocrystals Under Humid Conditions. Chemistry of Materials, 2019, 31, 9750-9758.	3.2	29

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145	In situ study of the film formation mechanism of organicâ€“inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. Journal of Materials Chemistry A, 2020, 8, 7695-7703.	5.2	29
146	Single Crystalline Nature of para-Sexiphenyl Crystallites Grown on KCl(100). Journal of Nanoscience and Nanotechnology, 2006, 6, 698-703.	0.9	28
147	In Situ Tracking of Composition and Morphology of a Diblock Copolymer Film with GISAXS during Exchange of Solvent Vapors at Elevated Temperatures. Advanced Functional Materials, 2018, 28, 1706226.	7.8	28
148	Pulsed Laser Annealing of Thin Films of Self-Assembled Nanocrystals. ACS Nano, 2011, 5, 7010-7019.	7.3	26
149	Hybrid perovskite solar cells: In situ investigation of solution-processed PbI₂ reveals metastable precursors and a pathway to producing porous thin films. Journal of Materials Research, 2017, 32, 1899-1907.	1.2	26
150	Effect of the Molecular Weight of AB Diblock Copolymers on the Lamellar Orientation in Thin Films: Theory and Experiment. Macromolecular Rapid Communications, 2007, 28, 579-584.	2.0	25
151	Silicon Nanocrystal Superlattices. ChemPhysChem, 2013, 14, 84-87.	1.0	25
152	Structure and Dynamics of Asymmetric Poly(styrene-b-1,4-isoprene) Diblock Copolymer under 1D and 2D Nanoconfinement. ACS Applied Materials & Interfaces, 2015, 7, 12328-12338.	4.0	25
153	Morphology and Optoelectronic Variations Underlying the Nature of the Electron Transport Layer in Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 602-615.	2.5	25
154	Structure of the low-temperature phase of molybdenum (001) investigated by helium-atom scattering. Physical Review B, 1991, 43, 1260-1263.	1.1	24
155	A plasmonic fluid with dynamically tunable optical properties. Journal of Materials Chemistry, 2009, 19, 8728.	6.7	24
156	Design of block copolymer membranes using segregation strength trend lines. Molecular Systems Design and Engineering, 2016, 1, 278-289.	1.7	24
157	Structural Evolution of Perpendicular Lamellae in Diblock Copolymer Thin Films during Solvent Vapor Treatment Investigated by Grazingâ€Incidence Smallâ€Angle Xâ€Ray Scattering. Macromolecular Rapid Communications, 2013, 34, 1289-1295.	2.0	23
158	Kinetics of Block Copolymer Phase Segregation during Sub-millisecond Transient Thermal Annealing. Macromolecules, 2016, 49, 6462-6470.	2.2	23
159	Disordered structure of cubic iron silicide films on Si(111). Physical Review B, 1995, 51, 9715-9721.	1.1	22
160	Cu(001) to HD energy transfer and translational to rotational energy conversion on surface scattering. Journal of Chemical Physics, 2001, 115, 7713-7724.	1.2	22
161	Crystallization in diblock copolymer thin films at different degrees of supercooling. Physical Review E, 2009, 79, 041802.	0.8	22
162	Sputtered ZnO seed layer enhances photovoltaic behavior in hybrid ZnO/P3HT solar cells. Organic Electronics, 2013, 14, 3477-3483.	1.4	22

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163	Role of Halides in the Ordered Structure Transitions of Heated Gold Nanocrystal Superlattices. Langmuir, 2015, 31, 6924-6932.	1.6	22
164	Nucleation and strain-stabilization during organic semiconductor thin film deposition. Scientific Reports, 2016, 6, 32620.	1.6	22
165	Thermal Phase Transitions in Superlattice Assemblies of Cuboidal CH₃NH₃PbI₃ Nanocrystals Followed by Grazing Incidence X-ray Scattering. Journal of Physical Chemistry C, 2019, 123, 17555-17565.	1.5	22
166	Formation of titled clusters in the electrochemical deposition of copper on n-GaAs(001). Surface Science, 1996, 367, 40-44.	0.8	21
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