

Detlef M Smilgies

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296
papers

14,155
citations

67
h-index

107
g-index

322
ext. papers

15,438
ext. citations

8.4
avg, IF

6.6
L-index

#	Paper	IF	Citations
296	Precipitation dominated thin films of acetaminophen fabricated by meniscus guided coating. <i>CrystEngComm</i> , 2022 , 24, 311-320	3.3	
295	Wide and Tunable Bandgap MAPbBr ₃ /Clx Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000718	7.1	10
294	Structurally Asymmetric Porous Carbon Materials with Ordered Top Surface Layers from Nonequilibrium Block Copolymer Self-Assembly. <i>Macromolecules</i> , 2021 , 54, 2979-2991	5.5	4
293	Grazing-incidence X-ray scattering of lamellar thin films. Erratum. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1024-1024	3.8	
292	Promoting Bandlike Transport in Well-Defined and Highly Conducting Polymer Thin Films upon Controlling Dopant Oxidation Levels and Polaron Effects. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2938-2949	4.1	3
291	Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000668	7.1	10
290	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , 2021 , 2021, 9671892	7.8	8
289	Freeing Organic Semiconductor Nanowires from Nanoporous Aluminum Oxide Templates: Effects on Morphology, Crystal Structure, and Molecular Aggregation. <i>Crystal Growth and Design</i> , 2021 , 21, 721-728	3.5	1
288	Coupled Dynamics of Colloidal Nanoparticle Spreading and Self-Assembly at a Fluid-Fluid Interface. <i>Langmuir</i> , 2020 , 36, 6106-6115	4	13
287	Lyotropic Liquid Crystalline Mesophase Governs Interfacial Molecular Orientation of Conjugated Polymer Thin Films. <i>Chemistry of Materials</i> , 2020 , 32, 6043-6054	9.6	7
286	Solvent Vapor Annealing of a Diblock Copolymer Thin Film with a Nonselective and a Selective Solvent: Importance of Pathway for the Morphological Changes. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000150	4.8	9
285	Efficient Hybrid Mixed-Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020 , 4, 2000272	7.1	17
284	Reversible Temperature-Induced Structural Transformations in PbS Nanocrystal Superlattices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13456-13466	3.8	5
283	In situ study of the film formation mechanism of organic/inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7695-7703	7.3	25
282	Room-Temperature Partial Conversion of FAPbI ₃ Perovskite Phase via PbI ₂ Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1907442	15.6	27
281	Enhancement of charge transfer in thermally-expanded and strain-stabilized TIPS-pentacene thin films. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
280	A simple sample-changing robot for grazing-incidence X-ray scattering. <i>Journal of Applied Crystallography</i> , 2020 , 53, 294-296	3.8	

279	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1095-1104	13	49
278	Three-dimensional nanoparticle assemblies with tunable plasmonics via a layer-by-layer process. <i>Nano Today</i> , 2020 , 30, 100823	17.9	4
277	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36417-36427	9.5	3
276	Block Copolymer Self-Assembly-Directed and Transient Laser Heating-Enabled Nanostructures toward Phononic and Photonic Quantum Materials. <i>ACS Nano</i> , 2020 , 14, 11273-11282	16.7	7
275	Charge-Dependent Microphase Separation in Thin Films from a Multiresponsive Pentablock Quaterpolymer: A GISAXS Investigation. <i>Macromolecules</i> , 2020 , 53, 6255-6266	5.5	4
274	Tuning Organic Semiconductor Alignment and Aggregation via Nanoconfinement. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22799-22807	3.8	4
273	Phase Space Considerations for a microSAXS Beamline Located on a Diamond Laue Side-Bounce Monochromator. <i>Instruments</i> , 2020 , 4, 23	1.2	
272	The stabilization of food grade copper-chlorophyllin in low pH solutions through association with anionic polysaccharides. <i>Food Hydrocolloids</i> , 2020 , 98, 105255	10.6	3
271	Scalable Ambient Fabrication of High-Performance CsPbI ₂ Br Solar Cells. <i>Joule</i> , 2019 , 3, 2485-2502	27.8	94
270	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 7181-7190	11.5	110
269	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI ₃ : An In Situ Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807544	15.6	36
268	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1808357	24	57
267	Thermal Phase Transitions in Superlattice Assemblies of Cuboidal CH ₃ NH ₃ PbI ₃ Nanocrystals Followed by Grazing Incidence X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17555-17565	3.8	14
266	Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21766-21774	9.5	56
265	Grazing-incidence X-ray scattering of lamellar thin films. <i>Journal of Applied Crystallography</i> , 2019 , 52, 247-251	3.8	6
264	2D Freestanding Janus Gold Nanocrystal Superlattices. <i>Advanced Materials</i> , 2019 , 31, e1900989	24	27
263	High flux membranes, based on self-assembled and H-bond linked triblock copolymer nanospheres. <i>Journal of Membrane Science</i> , 2019 , 585, 10-18	9.6	9
262	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. <i>Solar Rrl</i> , 2019 , 3, 1800305	7.1	30

261	Self-assembled propylammonium cations at grain boundaries and the film surface to improve the efficiency and stability of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23739-23746	13	26
260	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17570-17582	9.5	41
259	Mechanistic investigation via QCM-D into the color stability imparted to betacyanins by the presence of food grade anionic polysaccharides. <i>Food Hydrocolloids</i> , 2019 , 93, 226-234	10.6	14
258	Quantifying multiple crystallite orientations and crystal heterogeneities in complex thin film materials. <i>CrystEngComm</i> , 2019 , 21, 5707-5720	3.3	10
257	Understanding Hydrogen Bonding Interactions in Crosslinked Methylammonium Lead Iodide Crystals: Towards Reducing Moisture and Light Degradation Pathways. <i>Angewandte Chemie</i> , 2019 , 131, 14050-14059	3.6	2
256	Understanding Hydrogen Bonding Interactions in Crosslinked Methylammonium Lead Iodide Crystals: Towards Reducing Moisture and Light Degradation Pathways. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13912-13921	16.4	24
255	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. <i>Joule</i> , 2019 , 3, 1746-1761	6.8	118
254	Thermal Stability of the Black Perovskite Phase in Cesium Lead Iodide Nanocrystals Under Humid Conditions. <i>Chemistry of Materials</i> , 2019 , 31, 9750-9758	9.6	20
253	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2684-2694	16.4	135
252	In Situ Tracking of Composition and Morphology of a Diblock Copolymer Film with GISAXS during Exchange of Solvent Vapors at Elevated Temperatures. <i>Advanced Functional Materials</i> , 2018 , 28, 1706226	15.6	22
251	Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701607	4.6	10
250	Exploiting Molecular Weight Distribution Shape to Tune Domain Spacing in Block Copolymer Thin Films. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4639-4648	16.4	70
249	Two-dimensional gold trisoctahedron nanoparticle superlattice sheets: self-assembly, characterization and immunosensing applications. <i>Nanoscale</i> , 2018 , 10, 5065-5071	7.7	43
248	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707166	24	192
247	Origin of vertical orientation in two-dimensional metal halide perovskites and its effect on photovoltaic performance. <i>Nature Communications</i> , 2018 , 9, 1336	17.4	228
246	In Situ and Real-Time Studies, via Synchrotron X-ray Scattering, of the Orientational Order of Cellulose Nanocrystals during Solution Shearing. <i>Langmuir</i> , 2018 , 34, 5263-5272	4	11
245	Morphology and Optoelectronic Variations Underlying the Nature of the Electron Transport Layer in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 602-615	6.1	20
244	Coordinated Responsive Arrays of Surface-Linked Polymer Islands-CORALS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7459-7468	9.5	1

243	Impact of Size Dispersity, Ligand Coverage, and Ligand Length on the Structure of PbS Nanocrystal Superlattices. <i>Chemistry of Materials</i> , 2018 , 30, 807-816	9.6	62
242	Colossal Anisotropy of the Dynamic Magnetic Susceptibility in Low-Dimensional Nanocube Assemblies. <i>ACS Nano</i> , 2018 , 12, 1403-1412	16.7	15
241	Locally Favored Two-Dimensional Structures of Block Copolymer Melts on Nonneutral Surfaces. <i>Macromolecules</i> , 2018 , 51, 520-528	5.5	13
240	Controlling Polymorphism in Pharmaceutical Compounds Using Solution Shearing. <i>Crystal Growth and Design</i> , 2018 , 18, 602-606	3.5	22
239	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , 2018 , 3, 1078-1085	20.1	132
238	Breaking the Bimolecular Crystal: The Effect of Side-Chain Length on Oligothiophene/Fullerene Intercalation. <i>Chemistry of Materials</i> , 2018 , 30, 2550-2556	9.6	5
237	Functionalized Nanochannels from Self-Assembled and Photomodified Poly(Styrene- <i>b</i> -Butadiene- <i>b</i> -Styrene). <i>Small</i> , 2018 , 14, e1701885	11	16
236	Carboxyl-functionalized nanochannels based on block copolymer hierarchical structures. <i>Faraday Discussions</i> , 2018 , 209, 303-314	3.6	4
235	Au nanocrystal superlattices: nanocrystallinity, vicinal surfaces, and growth processes. <i>Nanoscale</i> , 2018 , 10, 15371-15378	7.7	2
234	Reducing the confinement of PBDB-T to ITIC to improve the crystallinity of PBDB-T/ITIC blends. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15610-15620	13	69
233	Highly Efficient Ruddlesden-Popper Halide Perovskite PA2MA4Pb5I16 Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 1975-1982	20.1	98
232	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , 2018 , 2, 1313-1330	27.3	125
231	Nanochannels: Functionalized Nanochannels from Self-Assembled and Photomodified Poly(Styrene- <i>b</i> -Butadiene- <i>b</i> -Styrene) (Small 18/2018). <i>Small</i> , 2018 , 14, 1870083	11	
230	On the Effect of Confinement on the Structure and Properties of Small-Molecular Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700308	6.4	16
229	Oriented UiO-66 thin films through solution shearing. <i>CrystEngComm</i> , 2018 , 20, 294-300	3.3	12
228	Pathways to Mesoporous Resin/Carbon Thin Films with Alternating Gyroid Morphology. <i>ACS Nano</i> , 2018 , 12, 347-358	16.7	26
227	. <i>Chemistry of Materials</i> , 2018 , 30, 54-63	9.6	30
226	High performance ambient-air-stable FAPbI3 perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , 2018 , 11, 3358-3366	35.4	154

225	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , 2018 , 9, 5302	17.4	136
224	Self-Assembled Membranes with Featherlike and Lamellar Morphologies Containing Helical Polypeptides. <i>Macromolecules</i> , 2018 , 51, 8174-8187	5.5	9
223	The quantum-confined Stark effect in layered hybrid perovskites mediated by orientational polarizability of confined dipoles. <i>Nature Communications</i> , 2018 , 9, 4214	17.4	35
222	Assembly Dynamics of Plasmonic DNA-Capped Gold Nanoparticle Monolayers. <i>Langmuir</i> , 2018 , 34, 14711-14720	17.4	35
221	Solvent Vapor Annealing: Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport (Adv. Mater. Interfaces 9/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870040	4.6	
220	Perovskite Photovoltaics: Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases (Adv. Mater. 2/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
219	Hybrid perovskite solar cells: In situ investigation of solution-processed PbI ₂ reveals metastable precursors and a pathway to producing porous thin films. <i>Journal of Materials Research</i> , 2017 , 32, 1899-1907	2.5	24
218	Vertical vs Lateral Macrophase Separation in Thin Films of Block Copolymer Mixtures: Computer Simulations and GISAXS Experiments. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31291-31301	9.5	9
217	Silicon Nanocrystal Superlattice Nucleation and Growth. <i>Langmuir</i> , 2017 , 33, 13068-13076	4	5
216	Organic thin films with charge-carrier mobility exceeding that of single crystals. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10313-10319	7.1	8
215	Size-Dependent Photoluminescence Efficiency of Silicon Nanocrystal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23240-23248	3.8	78
214	Bubble Assemblies of Nanocrystals: Superlattices without a Substrate. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4865-4871	6.4	4
213	Emergent Properties of an Organic Semiconductor Driven by its Molecular Chirality. <i>ACS Nano</i> , 2017 , 11, 8329-8338	16.7	90
212	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. <i>Energy and Environmental Science</i> , 2017 , 10, 2095-2102	35.4	496
211	Superlattice self-assembly: Watching nanocrystals in action. <i>Europhysics Letters</i> , 2017 , 119, 28003	1.6	10
210	Controlling nucleation, growth, and orientation of metal halide perovskite thin films with rationally selected additives. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 113-123	13	92
209	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. <i>Advanced Materials</i> , 2017 , 29, 1604113	24	120
208	Restructuring in block copolymer thin films: In situ GISAXS investigations during solvent vapor annealing. <i>Progress in Polymer Science</i> , 2017 , 66, 80-115	29.6	60

207	Kinetics of Block Copolymer Phase Segregation during Sub-millisecond Transient Thermal Annealing. <i>Macromolecules</i> , 2016 , 49, 6462-6470	5.5	19
206	Asymmetric block copolymer membranes with ultrahigh porosity and hierarchical pore structure by plain solvent evaporation. <i>Chemical Communications</i> , 2016 , 52, 12064-12067	5.8	13
205	Orientationally Ordered Silicon Nanocrystal Cuboctahedra in Superlattices. <i>Nano Letters</i> , 2016 , 16, 7814-7821	5.8	28
204	Cooling Dodecanethiol-Capped 2 nm Diameter Gold Nanocrystal Superlattices below Room Temperature Induces a Reversible Order-Disorder Structure Transition. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27682-27687	3.8	11
203	Nucleation and strain-stabilization during organic semiconductor thin film deposition. <i>Scientific Reports</i> , 2016 , 6, 32620	4.9	18
202	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. <i>Advanced Functional Materials</i> , 2016 , 26, 2371-2378	15.6	60
201	In Situ Study of Evaporation-Induced Surface Structure Evolution in Asymmetric Triblock Terpolymer Membranes. <i>Macromolecules</i> , 2016 , 49, 4195-4201	5.5	31
200	Design of block copolymer membranes using segregation strength trend lines. <i>Molecular Systems Design and Engineering</i> , 2016 , 1, 278-289	4.6	19
199	Confinement effects on the crystalline features of poly(9,9-dioctylfluorene). <i>European Polymer Journal</i> , 2016 , 81, 650-660	5.2	11
198	Kinetics of the self-assembly of nanocrystal superlattices measured by real-time in situ X-ray scattering. <i>Nature Materials</i> , 2016 , 15, 775-81	27	184
197	Vertical orientation of solvent cast nanofilled PS-b-PEO block copolymer thin films at high nanoparticle loading. <i>Polymer</i> , 2016 , 82, 22-31	3.9	4
196	Toward an equilibrium structure in lamellar diblock copolymer thin films using solvent vapor annealing [An in-situ time-resolved GISAXS study. <i>European Polymer Journal</i> , 2016 , 81, 607-620	5.2	7
195	Thin Film Transistors: Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing (Adv. Funct. Mater. 14/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2396-2396	15.6	1
194	Transient phases during fast crystallization of organic thin films from solution. <i>APL Materials</i> , 2016 , 4, 016103	5.7	16
193	Thermal reorganization of alkyl-substituted thienothiophene semiconductors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5255-5262	7.1	4
192	Artificial membranes with selective nanochannels for protein transport. <i>Polymer Chemistry</i> , 2016 , 7, 6189-6201	7.6	17
191	Role of Halides in the Ordered Structure Transitions of Heated Gold Nanocrystal Superlattices. <i>Langmuir</i> , 2015 , 31, 6924-32	4	20
190	The Role of Ligand Packing Frustration in Body-Centered Cubic (bcc) Superlattices of Colloidal Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2406-12	6.4	67

189	Reconfigurable Nanorod Films: An in Situ Study of the Relationship between the Tunable Nanorod Orientation and the Optical Properties of Their Self-Assembled Thin Films. <i>Chemistry of Materials</i> , 2015 , 27, 2659-2665	9.6	12
188	Processing-Structure-Property Relationships in Laser-Annealed PbSe Nanocrystal Thin Films. <i>ACS Nano</i> , 2015 , 9, 4096-102	16.7	8
187	Widely Tunable Morphologies in Block Copolymer Thin Films Through Solvent Vapor Annealing Using Mixtures of Selective Solvents. <i>Advanced Functional Materials</i> , 2015 , 25, 3057-3065	15.6	70
186	Using Molecular Design to Increase Hole Transport: Backbone Fluorination in the Benchmark Material Poly(2,5-bis(3-alkylthiophen-2-yl)thieno[3,2-b]thiophene (pBTTT). <i>Advanced Functional Materials</i> , 2015 , 25, 7038-7048	15.6	47
185	Molecular weight-gyration radius relation of globular proteins: a comparison of light scattering, small-angle X-ray scattering and structure-based data. <i>Journal of Applied Crystallography</i> , 2015 , 48, 1604-1606	3.8	49
184	Synergistic Impact of Solvent and Polymer Additives on the Film Formation of Small Molecule Blend Films for Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1501121	21.8	50
183	Toward Additive-Free Small-Molecule Organic Solar Cells: Roles of the Donor Crystallization Pathway and Dynamics. <i>Advanced Materials</i> , 2015 , 27, 7285-92	24	50
182	Nanocrystal superlattices that exhibit improved order on heating: an example of inverse melting?. <i>Faraday Discussions</i> , 2015 , 181, 181-92	3.6	30
181	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. <i>Nature Communications</i> , 2015 , 6, 8598	17.4	188
180	Structure and Dynamics of Asymmetric Poly(styrene-b-1,4-isoprene) Diblock Copolymer under 1D and 2D Nanoconfinement. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12328-38	9.5	23
179	Crystallization kinetics of organic-inorganic trihalide perovskites and the role of the lead anion in crystal growth. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2350-8	16.4	266
178	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2528-2538	7.1	100
177	Connecting the particles in the box--controlled fusion of hexamer nanocrystal clusters within an AB binary nanocrystal superlattice. <i>Scientific Reports</i> , 2014 , 4, 6731	4.9	12
176	Poly(N-isopropylacrylamide) surfactant-functionalized responsive silver nanoparticles and superlattices. <i>ACS Nano</i> , 2014 , 8, 4799-804	16.7	41
175	One-dimensional self-confinement promotes polymorph selection in large-area organic semiconductor thin films. <i>Nature Communications</i> , 2014 , 5, 3573	17.4	116
174	() toolkit: a user-friendly approach to unit-cell lattice parameter identification of two-dimensional grazing-incidence wide-angle X-ray scattering data. <i>Journal of Applied Crystallography</i> , 2014 , 47, 2090-2099	3.8	25
173	Rational Design of Organic Semiconductors for Texture Control and Self-Patterning on Halogenated Surfaces. <i>Advanced Functional Materials</i> , 2014 , 24, 5052-5058	15.6	37
172	Lamellar Diblock Copolymer Thin Films during Solvent Vapor Annealing Studied by GISAXS: Different Behavior of Parallel and Perpendicular Lamellae. <i>Macromolecules</i> , 2014 , 47, 5711-5718	5.5	53

171	Late stage crystallization and healing during spin-coating enhance carrier transport in small-molecule organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5681-5689	7.1	51
170	Structure formation in P3HT/F8TBT blends. <i>Energy and Environmental Science</i> , 2014 , 7, 1725-1736	35.4	35
169	Solvent-mediated self-assembly of nanocube superlattices. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1352-9	16.4	106
168	Complex macrophase-separated nanostructure induced by microphase separation in binary blends of lamellar diblock copolymer thin films. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1622-9	4.8	7
167	Time-resolved GISAXS and cryo-microscopy characterization of block copolymer membrane formation. <i>Polymer</i> , 2014 , 55, 1327-1332	3.9	46
166	Application of CHES single-bounce capillaries at synchrotron beamlines. <i>Journal of Physics: Conference Series</i> , 2014 , 493, 012034	0.3	5
165	Crystallization of DNA-Capped Gold Nanoparticles in High-Concentration, Divalent Salt Environments. <i>Angewandte Chemie</i> , 2014 , 126, 1340-1343	3.6	6
164	Crystallization of DNA-capped gold nanoparticles in high-concentration, divalent salt environments. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1316-9	16.4	37
163	Organic Semiconductors: Rational Design of Organic Semiconductors for Texture Control and Self-Patterning on Halogenated Surfaces (Adv. Funct. Mater. 32/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5168-5168	15.6	1
162	In-situ real-time x-ray scattering for probing the processing-structure-performance relation. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1695, 14		1
161	Look fast: Crystallization of conjugated molecules during solution shearing probed in-situ and in real time by X-ray scattering. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 177-179	2.5	65
160	Solvent additive effects on small molecule crystallization in bulk heterojunction solar cells probed during spin casting. <i>Advanced Materials</i> , 2013 , 25, 6380-4	24	144
159	Sputtered ZnO seed layer enhances photovoltaic behavior in hybrid ZnO/P3HT solar cells. <i>Organic Electronics</i> , 2013 , 14, 3477-3483	3.5	21
158	Ordered structure rearrangements in heated gold nanocrystal superlattices. <i>Nano Letters</i> , 2013 , 13, 5710-15	4.5	47
157	Structural evolution of perpendicular lamellae in diblock copolymer thin films during solvent vapor treatment investigated by grazing-incidence small-angle X-ray scattering. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1289-95	4.8	20
156	Silicon nanocrystal superlattices. <i>ChemPhysChem</i> , 2013 , 14, 84-7	3.2	25
155	A disordered layered phase in thin films of sexithiophene. <i>Chemical Physics Letters</i> , 2013 , 574, 51-55	2.5	32
154	Solvent vapor annealing in the molecular regime drastically improves carrier transport in small-molecule thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2325-30	9.5	41

153	Scherrer grain-size analysis adapted to grazing-incidence scattering with area detectors. Erratum. <i>Journal of Applied Crystallography</i> , 2013 , 46, 286-286	3.8	48
152	Induction of circularly polarized electroluminescence from an achiral light-emitting polymer via a chiral small-molecule dopant. <i>Advanced Materials</i> , 2013 , 25, 2624-8	24	256
151	Molecular Order and Dynamics of Nanometric Thin Layers of Poly(styrene-b-1,4-isoprene) Diblock Copolymers. <i>Macromolecules</i> , 2013 , 46, 9729-9737	5.5	12
150	Self-Assembly and Thermal Stability of Binary Superlattices of Gold and Silicon Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4,	6.4	32
149	Heterogeneous Nucleation Promotes Carrier Transport in Solution-Processed Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2013 , 23, 291-297	15.6	46
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