Peter MÃ¼ller-Buschbaum

List of Publications by Year
in descending order

612 papers	23,616 citations	12330 69 h-index	18647 119 g-index
630 all docs	630 docs citations	630 times ranked	21377 citing authors

#	Article	IF	Citations
1	Improvement of the thermoelectric properties of PEDOT:PSS films via DMSO addition and DMSO/salt post-treatment resolved from a fundamental view. Chemical Engineering Journal, 2022, 429, 132295.	12.7	37
2	In Situ Study of FePt Nanoparticlesâ€Induced Morphology Development during Printing of Magnetic Hybrid Diblock Copolymer Films. Advanced Functional Materials, 2022, 32, 2107667.	14.9	3
3	Biopolymerâ€Templated Deposition of Ordered and Polymorph Titanium Dioxide Thin Films for Improved Surfaceâ€Enhanced Raman Scattering Sensitivity. Advanced Functional Materials, 2022, 32, 2108556.	14.9	12
4	Anatase titanium dioxide as rechargeable ion battery electrode - A chronological review. Energy Storage Materials, 2022, 45, 201-264.	18.0	45
5	In Situ GISAXS Observation and Large Area Homogeneity Study of Slot-Die Printed PS-b-P4VP and PS-b-P4VP/FeCl₃ Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 3143-3155.	8.0	4
6	The Influence of CsBr on Crystal Orientation and Optoelectronic Properties of MAPbI₃-Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 2958-2967.	8.0	18
7	Hierarchical propagation of structural features in protein nanomaterials. Nanoscale, 2022, 14, 2502-2510.	5.6	6
8	Solvent Tuning of the Active Layer Morphology of Nonâ€Fullerene Based Organic Solar Cells. Solar Rrl, 2022, 6, .	5.8	4
9	State of the art of ultra-thin gold layers: formation fundamentals and applications. Nanoscale Advances, 2022, 4, 2533-2560.	4.6	10
10	Revealing Donorâ€“Acceptor Interaction on the Printed Active Layer Morphology and the Formation Kinetics for Nonfullerene Organic Solar Cells at Ambient Conditions. Advanced Energy Materials, 2022, 12, .	19.5	40
11	In Situ Monitoring of Scale Effects on Phase Selection and Plasmonic Shifts during the Growth of AgCu Alloy Nanostructures for Anticounterfeiting Applications. ACS Applied Nano Materials, 2022, 5, 3832-3842.	5.0	7
12	Hydrophobic Graphene Quantum Dots for Defect Passivation and Enhanced Moisture Stability of CH₃NH₃PbI₃ Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	11
13	Processâ€Aid Solid Engineering Triggers Delicately Modulation of Yâ€Series Nonâ€Fullerene Acceptor for Efficient Organic Solar Cells. Advanced Materials, 2022, 34, e2200907.	21.0	94
14	Timeâ€Resolved Orientation and Phase Analysis of Lead Halide Perovskite Film Annealing Probed by In Situ GIWAXS. Advanced Optical Materials, 2022, 10, .	7.3	22
15	Simultaneous and Efficient Removal of Oleophilic and Hydrophilic Stains from Polyurethane by the Combination of Easy-Cleaning and Self-Cleaning. ACS Applied Materials & Interfaces, 2022, 14, 16641-16648.	8.0	7
16	Bronzeâ€Phase TiO₂ as Anode Materials in Lithium and Sodiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	53
17	Template-Induced Growth of Sputter-Deposited Gold Nanoparticles on Ordered Porous TiO₂ Thin Films for Surface-Enhanced Raman Scattering Sensors. ACS Applied Nano Materials, 2022, 5, 7492-7501.	5.0	11
18	Effect of Solvent Vapor Annealing on Diblock Copolymer-Templated Mesoporous Si/Ge/C Thin Films: Implications for Li-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 7278-7287.	5.0	2

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19	Operando Study of Structure Degradation in Solidâ€State Dyeâ€Sensitized Solar Cells with a TiO₂ Photoanode Having Ordered Mesopore Arrays. Solar Rrl, 2022, 6, .	5.8	4
20	Poly(sulfobetaine)-Based Diblock Copolymer Thin Films in Water/Acetone Atmosphere: Modulation of Water Hydration and Co-nonsolvency-Triggered Film Contraction. Langmuir, 2022, 38, 6934-6948.	3.5	7
21	Effect of Thermal Stimulus on Kinetic Rehydration of Thermoresponsive Poly(diethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Thin Films Probed by In Situ Neutron Reflectivity. Langmuir, 2022, 38, 8094-8103.	3.5	5
22	Solvent Tuning of the Active Layer Morphology of Nonâ€Fullerene Based Organic Solar Cells. Solar Rrl, 2022, 6, .	5.8	1
23	Facile Preparation of Silk Fabrics with Enhanced UV Radiation Shielding and Wrinkle Resistance by Cross-Linking Light-Responsive Copolymers. ACS Applied Materials & Interfaces, 2022, 14, 27187-27194.	8.0	13
24	Sprayed Nanometer-Thick Hard-Magnetic Coatings with Strong Perpendicular Anisotropy for Data Storage Applications. ACS Applied Nano Materials, 2022, 5, 8741-8754.	5.0	1
25	Elucidating the Role of Antisolvents on the Surface Chemistry and Optoelectronic Properties of CsPbBr_xI_{3-x} Perovskite Nanocrystals. Journal of the American Chemical Society, 2022, 144, 12102-12115.	13.7	31
26	In Situ Observation of Morphological and Oxidation Level Degradation Processes within Ionic Liquid Post-treated PEDOT:PSS Thin Films upon Operation at High Temperatures. ACS Applied Materials & Interfaces, 2022, 14, 30802-30811.	8.0	16
27	Hydrophobic Graphene Quantum Dots for Defect Passivation and Enhanced Moisture Stability of CH₃NH₃PbI₃ Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	2
28	Efficient and Stable Perovskite Solar Cells by Fluorinated Ionic Liquidâ€“Induced Component Interaction. Solar Rrl, 2021, 5, .	5.8	24
29	Real-time insight into nanostructure evolution during the rapid formation of ultra-thin gold layers on polymers. Nanoscale Horizons, 2021, 6, 132-138.	8.0	24
30	Singleâ€Layered Reflective Metasurface Achieving Simultaneous Spinâ€Selective Perfect Absorption and Efficient Wavefront Manipulation. Advanced Optical Materials, 2021, 9, 2001663.	7.3	25
31	Self-Assembled Micelles from Thermoresponsive Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (methacrylate)-<i Macromolecules, 2021, 54, 384-397.	4.8	20
32	Impact of CO₂ activation on the structure, composition, and performance of Sb/C nanohybrid lithium/sodium-ion battery anodes. Nanoscale Advances, 2021, 3, 1942-1953.	4.6	9
33	Efficient Electrical Doping of Organic Semiconductors Via an Orthogonal Liquidâ€Liquid Contact. Advanced Functional Materials, 2021, 31, 2009660.	14.9	10
34	SnO₂/Sn/Carbon nanohybrid lithiumâ€ion battery anode with high reversible capacity and excellent cyclic stability. Nano Select, 2021, 2, 642-653.	3.7	10
35	A graphitic carbon nitride metal-free visible light photocatalyst with controllable carbon self-doping towards efficient hydrogen evolution. Sustainable Energy and Fuels, 2021, 5, 5227-5235.	4.9	5
36	Layer-by-Layer Spray-Coating of Cellulose Nanofibrils and Silver Nanoparticles for Hydrophilic Interfaces. ACS Applied Nano Materials, 2021, 4, 503-513.	5.0	24

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37	A bromide-induced highly oriented low-dimensional Ruddlesdenâ€“Popper phase for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 15068-15075.	10.3	5
38	Abnormal fast dehydration and rehydration of light- and thermo-dual-responsive copolymer films triggered by UV radiation. Soft Matter, 2021, 17, 2603-2613.	2.7	6
39	Revealing the growth of copper on polystyrene-block-poly(ethylene oxide) diblock copolymer thin films with in situ GISAXS. Nanoscale, 2021, 13, 10555-10565.	5.6	11
40	Chemically fueled materials with a self-immolative mechanism: transient materials with a fast on/off response. Chemical Science, 2021, 12, 9969-9976.	7.4	13
41	Characterization of an active ingredient made of nanoscale iron(oxyhydr)oxide for the treatment of hyperphosphatemia. RSC Advances, 2021, 11, 17669-17682.	3.6	5
42	Tuneable interfacial surfactant aggregates mimic lyotropic phases and facilitate large scale nanopatterning. Nanoscale, 2021, 13, 371-379.	5.6	3
43	Synergistic Interplay between Asymmetric Backbone Conformation, Molecular Aggregation, and Charge-Carrier Dynamics in Fused-Ring Electron Acceptor-Based Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 2961-2970.	8.0	12
44	Superâ€Small TiO 2 Nanoparticles Homogeneously Embedded in Mesoporous Carbon Matrix Based on Dental Methacrylates and KOH Activation. ChemistrySelect, 2021, 6, 1508-1518.	1.5	0
45	Manipulating SnO₂ Growth for Efficient Electron Transport in Perovskite Solar Cells. Advanced Materials Interfaces, 2021, 8, 2100128.	3.7	33
46	Continuous fast pyrolysis synthesis of TiO₂/C nanohybrid lithiumâ€ion battery anode. Nano Select, 2021, 2, 1770-1778.	3.7	1
47	Si/Cu/C Nanohybrid Lithium-Ion Battery Anode with in Situ Incorporation of Nonagglomerated Super-Small Copper Nanoparticles Based on Epoxy Resin. Energy & Fuels, 2021, 35, 6250-6264.	5.1	5
48	Tailoring the Optical Properties of Sputter-Deposited Gold Nanostructures on Nanostructured Titanium Dioxide Templates Based on In Situ Grazing-Incidence Small-Angle X-ray Scattering Determined Growth Laws. ACS Applied Materials & Interfaces, 2021, 13, 14728-14740.	8.0	4
49	Selective Silver Nanocluster Metallization on Conjugated Diblock Copolymer Templates for Sensing and Photovoltaic Applications. ACS Applied Nano Materials, 2021, 4, 4245-4255.	5.0	14
50	Flexible Sample Environments for the Investigation of Soft Matter at the European Spallation Source: Part Iâ€”The In Situ SANS/DLS Setup. Applied Sciences (Switzerland), 2021, 11, 4089.	2.5	7
51	Increasing Photostability of Inverted Nonfullerene Organic Solar Cells by Using Fullerene Derivative Additives. ACS Applied Materials & Interfaces, 2021, 13, 19072-19084.	8.0	37
52	Emerging Organic/Hybrid Photovoltaic Cells for Indoor Applications: Recent Advances and Perspectives. Solar Rrl, 2021, 5, 2100042.	5.8	20
53	Flexible Sample Environment for the Investigation of Soft Matter at the European Spallation Source: Part IIâ€”The GISANS Setup. Applied Sciences (Switzerland), 2021, 11, 4036.	2.5	12
54	Technical Specification of the Small-Angle Neutron Scattering Instrument SKADI at the European Spallation Source. Applied Sciences (Switzerland), 2021, 11, 3620.	2.5	8

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55	PMMA-b-PNIPAM Thin Films Display Cononsolvency-Driven Response in Mixed Water/Methanol Vapors. Macromolecules, 2021, 54, 3517-3530.	4.8	20
56	Hydration and Thermal Response Kinetics of a Cross-Linked Thermoresponsive Copolymer Film on a Hydrophobic PAN Substrate Coating Probed by In Situ Neutron Reflectivity. Langmuir, 2021, 37, 6819-6829.	3.5	11
57	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosanâ€“Gelatin Hydrogel Composites for Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 22902-22913.	8.0	72
58	Flexible Sample Environments for the Investigation of Soft Matter at the European Spallation Source: Part IIIâ€”The Macroscopic Foam Cell. Applied Sciences (Switzerland), 2021, 11, 5116.	2.5	8
59	Humidityâ€Induced Nanoscale Restructuring in PEDOT:PSS and Cellulose Nanofibrils Reinforced Biobased Organic Electronics. Advanced Electronic Materials, 2021, 7, 2100137.	5.1	11
60	Influence of NaCl on the Structure and Dynamics of Phospholipid Layers. Frontiers in Physics, 2021, 9, .	2.1	5
61	Ternary Nanoswitches Realized with Multiresponsive PMMAâ€•b â€PNIPMAM Films in Mixed Water/Acetone Vapor Atmospheres. Advanced Engineering Materials, 2021, 23, 2100191.	3.5	4
62	Characterization and Quantification of Depletion and Accumulation Layers in Solidâ€•State Li⁺â€Conducting Electrolytes Using In Situ Spectroscopic Ellipsometry. Advanced Materials, 2021, 33, e2100585.	21.0	17
63	Co-Nonsolvency Effect in Solutions of Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (methacrylate)-b-poly(Mixtures. Macromolecules, 2021, 54, 5825-5837.	4.8	13
64	The Influence of the Blend Ratio, Solvent Additive, and Post-production Treatment on the Polymer Dynamics in PTB7:PCBM Blend Films. Macromolecules, 2021, 54, 6534-6542.	4.8	3
65	Tailoring Ordered Mesoporous Titania Films via Introducing Germanium Nanocrystals for Enhanced Electron Transfer Photoanodes for Photovoltaic Applications. Advanced Functional Materials, 2021, 31, 2102105.	14.9	9
66	Nanocellulose-Assisted Thermally Induced Growth of Silver Nanoparticles for Optical Applications. ACS Applied Materials & Interfaces, 2021, 13, 27696-27704.	8.0	10
67	Multidimensional Morphology Control for PSâ€bâ€P₄VP Templated Mesoporous Iron (III) Oxide Thin Films. Advanced Materials Interfaces, 2021, 8, 2100141.	3.7	6
68	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
69	Synergistic Stain Removal Achieved by Controlling the Fractions of Light and Thermo Responsive Components in the Dual-Responsive Copolymer Immobilized on Cotton Fabrics by Cross-Linker. ACS Applied Materials & Interfaces, 2021, 13, 27372-27381.	8.0	16
70	Salt-Dependent Phase Transition Behavior of Doubly Thermoresponsive Poly(sulfobetaine)-Based Diblock Copolymer Thin Films. Langmuir, 2021, 37, 9179-9191.	3.5	10
71	An experiment for novel material thin-film solar cell characterization on sounding rocket flights. Review of Scientific Instruments, 2021, 92, 074501.	1.3	4
72	Efficient and stable Ruddlesden-Popper layered tin-based perovskite solar cells enabled by ionic liquid-bulky spacers. Science China Chemistry, 2021, 64, 1577-1585.	8.2	26

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73	Solvation Behavior of Poly(sulfobetaine)-Based Diblock Copolymer Thin Films in Mixed Water/Methanol Vapors. Macromolecules, 2021, 54, 7147-7159.	4.8	8
74	Flexible Perovskite Solar Cells with High Power-Per-Weight: Progress, Application, and Perspectives. ACS Energy Letters, 2021, 6, 2917-2943.	17.4	100
75	Effects of Polymer Block Length Asymmetry and Temperature on the Nanoscale Morphology of Thermoresponsive Double Hydrophilic Block Copolymers in Aqueous Solutions. Macromolecules, 2021, 54, 7298-7313.	4.8	9
76	1,10-Phenanthroline as an Efficient Bifunctional Passivating Agent for MAPbI₃ Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 32894-32905.	8.0	13
77	Matrix Manipulation of Directlyâ€Synthesized PbS Quantum Dot Inks Enabled by Coordination Engineering. Advanced Functional Materials, 2021, 31, 2104457.	14.9	24
78	Photovoltaic cells based on ternary P3HT:PCBM: Ruthenium(II) complex bearing 8-(diphenylphosphino)quinoline active layer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126685.	4.7	7
79	Morphology Transformation Pathway of Block Copolymerâ€Directed Cooperative Selfâ€Assembly of ZnO Hybrid Films Monitored In Situ during Slotâ€Die Coating. Advanced Functional Materials, 2021, 31, 2105644.	14.9	11
80	Metamorphosis of Heterostructured Surfaceâ€Mounted Metalâ€“Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. Advanced Materials, 2021, 33, e2103218.	21.0	43
81	Correlation of Thermoelectric Performance, Domain Morphology and Doping Level in PEDOT:PSS Thin Films Postâ€Treated with Ionic Liquids. Macromolecular Rapid Communications, 2021, 42, e2100397.	3.9	6
82	Real-time observation of nucleation and growth of Au on CdSe quantum dot templates. Scientific Reports, 2021, 11, 18777.	3.3	2
83	How to Choose an Interfacial Modifier for Organic Photovoltaics Using Simple Surface Energy Considerations. ACS Applied Materials & Interfaces, 2021, 13, 46134-46141.	8.0	10
84	Multistate Nonvolatile Metamirrors with Tunable Optical Chirality. ACS Applied Materials & Interfaces, 2021, 13, 45890-45897.	8.0	22
85	Ionic Hydrogels Based Wearable Sensors to Monitor the Solar Radiation Dose for Vitamin D Production and Sunburn Prevention. ACS Applied Materials & Interfaces, 2021, 13, 45995-46002.	8.0	13
86	Lithium distribution and transfer in high-power 18650-type Li-ion cells at multiple length scales. Energy Storage Materials, 2021, 41, 546-553.	18.0	13
87	Residual solvent extraction via chemical displacement for efficient and stable perovskite solar cells. Journal of Energy Chemistry, 2021, 61, 8-14.	12.9	19
88	Stability of mixed-halide wide bandgap perovskite solar cells: Strategies and progress. Journal of Energy Chemistry, 2021, 61, 395-415.	12.9	34
89	Operando structure degradation study of PbS quantum dot solar cells. Energy and Environmental Science, 2021, 14, 3420-3429.	30.8	17
90	Poly(sulfobetaine) versus Poly(N-isopropylmethacrylamide): Co-Nonsolvency-Type Behavior of Thin Films in a Water/Methanol Atmosphere. Macromolecules, 2021, 54, 1548-1556.	4.8	17

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91	A hydrogen evolution system based on hybrid nanogel films with capabilities of spontaneous moisture collection and high light harvesting. Green Chemistry, 2021, 23, 8969-8978.	9.0	13
92	Out-of-equilibrium processes in crystallization of organic-inorganic perovskites during spin coating. Nature Communications, 2021, 12, 5624.	12.8	53
93	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. Nature Energy, 2021, 6, 977-986.	39.5	103
94	A Solutionâ€Processable Polymerâ€Based Thinâ€Film Thermoelectric Generator. Advanced Energy and Sustainability Research, 2021, 2, 2000060.	5.8	5
95	Spray-Deposited Anisotropic Ferromagnetic Hybrid Polymer Films of PS-b-PMMA and Strontium Hexaferrite Magnetic Nanoplatelets. ACS Applied Materials & Interfaces, 2021, 13, 1592-1602.	8.0	8
96	Correlating Optical Reflectance with the Topology of Aluminum Nanocluster Layers Growing on Partially Conjugated Diblock Copolymer Templates. ACS Applied Materials & Interfaces, 2021, 13, 56663-56673.	8.0	9
97	Ternary Nanoswitches Realized with Multiresponsive PMMAâ€bâ€PNIPMAM Films in Mixed Water/Acetone Vapor Atmospheres. Advanced Engineering Materials, 2021, 23, 2170043.	3.5	0
98	Morphologyâ€“Ionic Conductivity Relationship in Polymerâ€“Titania Hybrid Electrolytes for Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 13438-13443.	5.1	3
99	3D texturing of the airâ€“water interface by biomimetic self-assembly. Nanoscale Horizons, 2020, 5, 839-846.	8.0	6
100	Thermoresponsive Diblock Copolymer Films with a Linear Shrinkage Behavior and Its Potential Application in Temperature Sensors. Langmuir, 2020, 36, 742-753.	3.5	16
101	The Dissociation Rate of Acetylacetonate Ligands Governs the Size of Ferrimagnetic Zinc Ferrite Nanocubes. ACS Applied Materials & Interfaces, 2020, 12, 217-226.	8.0	9
102	Following in Situ the Deposition of Gold Electrodes on Low Band Gap Polymer Films. ACS Applied Materials & Interfaces, 2020, 12, 1132-1141.	8.0	10
103	Cyclic Water Storage Behavior of Doubly Thermoresponsive Poly(sulfobetaine)-Based Diblock Copolymer Thin Films. Macromolecules, 2020, 53, 9108-9121.	4.8	11
104	Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells. Journal of Materials Chemistry A, 2020, 8, 23628-23636.	10.3	12
105	Key Factor Study for Amphiphilic Block Copolymerâ€Templated Mesoporous SnO₂ Thin Film Synthesis: Influence of Solvent and Catalyst. Advanced Materials Interfaces, 2020, 7, 2001002.	3.7	9
106	Enhanced Adsorption of Methylene Blue Triggered by the Phase Transition of Thermoresponsive Polymers in Hybrid Interpenetrating Polymer Network Hydrogels. ACS Applied Polymer Materials, 2020, 2, 3674-3684.	4.4	33
107	Tack Properties of Pressure-Sensitive Adhesive-Coated Fiber Assemblies. ACS Applied Polymer Materials, 2020, 2, 3189-3195.	4.4	1
108	Lysozyme Membranes Promoted by Hydrophobic Substrates for Ultrafast and Precise Organic Solvent Nanofiltration. Nano Letters, 2020, 20, 8760-8767.	9.1	31

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109	Optoelectronic Properties of Cs₂AgBiBr₆ Thin Films: The Influence of Precursor Stoichiometry. ACS Applied Energy Materials, 2020, 3, 11597-11609.	5.1	27
110	Hierarchical Structures from Nanocrystalline Colloidal Precursors within Hybrid Perovskite Thin Films: Implications for Photovoltaics. ACS Applied Nano Materials, 2020, 3, 11701-11708.	5.0	7
111	Wearable Bracelet Monitoring the Solar Ultraviolet Radiation for Skin Health Based on Hybrid IPN Hydrogels. ACS Applied Materials & Interfaces, 2020, 12, 56480-56490.	8.0	29
112	Codeposition of Levodopa and Polyethyleneimine: Reaction Mechanism and Coating Construction. ACS Applied Materials & Interfaces, 2020, 12, 54094-54103.	8.0	39
113	Sodium Dodecylbenzene Sulfonate Interface Modification of Methylammonium Lead Iodide for Surface Passivation of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 52643-52651.	8.0	25
114	In Situ Studies of Solvent Additive Effects on the Morphology Development during Printing of Bulk Heterojunction Films for Organic Solar Cells. Small Methods, 2020, 4, 2000418.	8.6	20
115	Tuning Chain Relaxation from an Amorphous Biopolymer Film to Crystals by Removing Air/Water Interface Limitations. Angewandte Chemie - International Edition, 2020, 59, 20192-20200.	13.8	12
116	Controlled Hydration, Transition, and Drug Release Realized by Adjusting Layer Thickness in Alginate-Ca²⁺/poly(N-isopropylacrylamide) Interpenetrating Polymeric Network Hydrogels on Cotton Fabrics. ACS Biomaterials Science and Engineering, 2020, 6, 5051-5060.	5.2	10
117	Perovskite and Organic Solar Cells on a Rocket Flight. Joule, 2020, 4, 1880-1892.	24.0	107
118	Temperature-Dependent Phase Behavior of the Thermoresponsive Polymer Poly(N-isopropylmethacrylamide) in an Aqueous Solution. Macromolecules, 2020, 53, 6816-6827.	4.8	32
119	Following In Situ the Evolution of Morphology and Optical Properties during Printing of Thin Films for Application in Non-Fullerene Acceptor Based Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 40381-40392.	8.0	14
120	Spray-deposited PbS colloidal quantum dot solid for near-infrared photodetectors. Nano Energy, 2020, 78, 105254.	16.0	35
121	Hydrogel-supported graphitic carbon nitride nanosheets loaded with Pt atoms as a novel self-water-storage photocatalyst for H₂ evolution. Journal of Materials Chemistry A, 2020, 8, 23812-23819.	10.3	38
122	Optically Active Perovskite CsPbBr₃ Nanocrystals Helically Arranged on Inorganic Silica Nanohelices. Nano Letters, 2020, 20, 8453-8460.	9.1	68
123	In situ Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. ACS Applied Materials & Interfaces, 2020, 12, 46942-46952.	8.0	7
124	Mesoporous GeO_x/Ge/C as a Highly Reversible Anode Material with High Specific Capacity for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 47002-47009.	8.0	18
125	Investigation of Molecular Dynamics of a PTB7:PCBM Polymer Blend with Quasi-Elastic Neutron Scattering. ACS Applied Polymer Materials, 2020, 2, 3797-3804.	4.4	8
126	Lightâ€Induced and Oxygenâ€Mediated Degradation Processes in Photoactive Layers Based on PTB7â€Th. Advanced Photonics Research, 2020, 1, 2000047.	3.6	6

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127	Rational Design and Mechanical Understanding of Three-Dimensional Macro-/Mesoporous Silicon Lithium-Ion Battery Anodes with a Tunable Pore Size and Wall Thickness. ACS Applied Materials & Interfaces, 2020, 12, 43785-43797.	8.0	24
128	Chargeâ€Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. Advanced Functional Materials, 2020, 30, 2004312.	14.9	67
129	Hot Hydrocarbonâ€Solvent Slotâ€Die Coating Enables Highâ€Efficiency Organic Solar Cells with Temperatureâ€Dependent Aggregation Behavior. Advanced Materials, 2020, 32, e2002302.	21.0	139
130	In Situ Study of Order Formation in Mesoporous Titania Thin Films Templated by a Diblock Copolymer during Slot-Die Printing. ACS Applied Materials & Interfaces, 2020, 12, 57627-57637.	8.0	10
131	In Situ Study of Sputtering Nanometer-Thick Gold Films onto 100-nm-Thick Spiro-OMeTAD Films: Implications for Perovskite Solar Cells. ACS Applied Nano Materials, 2020, 3, 5987-5994.	5.0	10
132	Tailoring the orientation of perovskite crystals via adding two-dimensional polymorphs for perovskite solar cells. JPhys Energy, 2020, 2, 034005.	5.3	16
133	A Chronicle Review of Nonsilicon (Sn, Sb, Ge)â€Based Lithium/Sodiumâ€Ion Battery Alloying Anodes. Small Methods, 2020, 4, 2000218.	8.6	220
134	Impact of Thermal History on the Kinetic Response of Thermoresponsive Poly(diethylene glycol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 Films Investigated by In Situ Neutron Reflectivity. Langmuir, 2020, 36, 6228-6237.	3.5	10
135	Following in Operando the Structure Evolutionâ€Induced Degradation in Printed Organic Solar Cells with Nonfullerene Small Molecule Acceptor. Solar Rrl, 2020, 4, 2000251.	5.8	14
136	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. Energy and Environmental Science, 2020, 13, 2467-2479.	30.8	69
137	Organic solar cells probed with advanced neutron scattering techniques. Applied Physics Letters, 2020, 116, 120504.	3.3	5
138	Surface distortion of Fe dot-decorated TiO2 nanotubular templates using time-of-flight grazing incidence small angle scattering. Scientific Reports, 2020, 10, 4038.	3.3	4
139	In Operando GISAXS and GIWAXS Stability Study of Organic Solar Cells Based on PffBT4Tâ€2OD:PC₇₁BM with and without Solvent Additive. Advanced Science, 2020, 7, 2001117.	11.2	32
140	Infrared Thin Film Detectors Based on Thermoresponsive Microgels with Linear Shrinkage Behavior and Gold Nanorods. ACS Applied Materials & Interfaces, 2020, 12, 34180-34189.	8.0	14
141	Colloidal PbS quantum dot stacking kinetics during deposition via printing. Nanoscale Horizons, 2020, 5, 880-885.	8.0	21
142	Key Factors for Templateâ€Oriented Porous Titania Synthesis: Solvents and Catalysts. Small Methods, 2020, 4, 1900689.	8.6	14
143	Coreâ€“Shell Nanoparticle Interface and Wetting Properties. Advanced Functional Materials, 2020, 30, 1907720.	14.9	22
144	Tailoring Morphology Compatibility and Device Stability by Adding PBDTTPD-COOH as Third Component to Fullerene-Based Polymer Solar Cells. ACS Applied Energy Materials, 2020, 3, 2604-2613.	5.1	9

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145	Self-Assembly of Large Magnetic Nanoparticles in Ultrahigh Molecular Weight Linear Diblock Copolymer Films. ACS Applied Materials & Interfaces, 2020, 12, 7557-7564.	8.0	10
146	Electrophoresis Assisted Printing: A Method To Control the Morphology in Organic Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 5219-5225.	8.0	6
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