

Peter MÃ¼ller-Buschbaum

List of Publications by Year in descending order

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612
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12330

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630
all docs

630
docs citations

630
times ranked

21377
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon based lithium-ion battery anodes: A chronicle perspective review. Nano Energy, 2017, 31, 113-143.	16.0	1,122
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
3	The Active Layer Morphology of Organic Solar Cells Probed with Grazing Incidence Scattering Techniques. Advanced Materials, 2014, 26, 7692-7709.	21.0	555
4	Boosting Tunable Blue Luminescence of Halide Perovskite Nanoplatelets through Postsynthetic Surface Trap Repair. Nano Letters, 2018, 18, 5231-5238.	9.1	382
5	Grazing incidence small-angle X-ray scattering: an advanced scattering technique for the investigation of nanostructured polymer films. Analytical and Bioanalytical Chemistry, 2003, 376, 3-10.	3.7	334
6	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. Nano Letters, 2010, 10, 2303-2309.	9.1	310
7	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700264.	19.5	295
8	Hybrid Perovskite/Perovskite Heterojunction Solar Cells. ACS Nano, 2016, 10, 5999-6007.	14.6	276
9	The Crystallization of PEDOT:PSS Polymeric Electrodes Probed In Situ during Printing. Advanced Materials, 2015, 27, 3391-3397.	21.0	263
10	P03, the microfocus and nanofocus X-ray scattering (MiNaXS) beamline of the PETRA III storage ring: the microfocus endstation. Journal of Synchrotron Radiation, 2012, 19, 647-653.	2.4	253
11	Nanostructuring Mixed-Dimensional Perovskites: A Route Toward Tunable, Efficient Photovoltaics. Advanced Materials, 2016, 28, 3653-3661.	21.0	251
12	Non-equilibrium dissipative supramolecular materials with a tunable lifetime. Nature Communications, 2017, 8, 15895.	12.8	251
13	From Precursor Powders to CsPbX ₃ Perovskite Nanowires: One-Pot Synthesis, Growth Mechanism, and Oriented Self-Assembly. Angewandte Chemie - International Edition, 2017, 56, 13887-13892.	13.8	249
14	A customizable software for fast reduction and analysis of large X-ray scattering data sets: applications of the new DPDAK package to small-angle X-ray scattering and grazing-incidence small-angle X-ray scattering. Journal of Applied Crystallography, 2014, 47, 1797-1803.	4.5	244
15	A Chronicle Review of Nonsilicon (Sn, Sb, Ge)-Based Lithium/Sodium-Ion Battery Alloying Anodes. Small Methods, 2020, 4, 2000218.	8.6	220
16	Solvent-Induced Morphology in Polymer-Based Systems for Organic Photovoltaics. Advanced Functional Materials, 2011, 21, 3382-3391.	14.9	218
17	Advanced grazing-incidence techniques for modern soft-matter materials analysis. IUCrJ, 2015, 2, 106-125.	2.2	212
18	A Direct Evidence of Morphological Degradation on a Nanometer Scale in Polymer Solar Cells. Advanced Materials, 2013, 25, 6760-6764.	21.0	176

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19	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2122-2128.	10.3	163
20	Spontaneous Self-Assembly of Perovskite Nanocrystals into Electronically Coupled Supercrystals: Toward Filling the Green Gap. <i>Advanced Materials</i> , 2018, 30, e1801117.	21.0	163
21	Morphology of polymer-based bulk heterojunction films for organic photovoltaics. <i>Soft Matter</i> , 2011, 7, 5482.	2.7	159
22	Small-angle options of the upgraded ultras-small-angle x-ray scattering beamline BW4 at HASYLAB. <i>Review of Scientific Instruments</i> , 2006, 77, 085106.	1.3	157
23	From atoms to layers: in situ gold cluster growth kinetics during sputter deposition. <i>Nanoscale</i> , 2013, 5, 5053.	5.6	148
24	Photon Reabsorption Masks Intrinsic Bimolecular Charge-Carrier Recombination in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite. <i>Nano Letters</i> , 2017, 17, 5782-5789.	9.1	147
25	Hot Hydrocarbon-Solvent Slot-Die Coating Enables High-Efficiency Organic Solar Cells with Temperature-Dependent Aggregation Behavior. <i>Advanced Materials</i> , 2020, 32, e2002302.	21.0	139
26	Crystallization-Induced 10-nm Structure Formation in P3HT/PCBM Blends. <i>Macromolecules</i> , 2013, 46, 4002-4013.	4.8	136
27	The Role of Backbone Hydration of Poly(N-isopropyl acrylamide) Across the Volume Phase Transition Compared to its Monomer. <i>Scientific Reports</i> , 2017, 7, 17012.	3.3	129
28	Molecular Reorientation and Structural Changes in Cosolvent-Treated Highly Conductive PEDOT:PSS Electrodes for Flexible Indium Tin Oxide-Free Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13598-13606.	3.1	128
29	Confinement effects on the chain conformation in thin polymer films. <i>Europhysics Letters</i> , 2000, 49, 210-216.	2.0	123
30	Influence of surface cleaning on dewetting of thin polystyrene films. <i>European Physical Journal E</i> , 2003, 12, 443-448.	1.6	117
31	In Situ GISAXS Study of Gold Film Growth on Conducting Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 353-360.	8.0	116
32	Influence of the Position of the Side Chain on Crystallization and Solar Cell Performance of DPP-Based Small Molecules. <i>Chemistry of Materials</i> , 2014, 26, 916-926.	6.7	113
33	Real-Time Monitoring of Morphology and Optical Properties during Sputter Deposition for Tailoring Metal-Polymer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13547-13556.	8.0	113
34	Structure of Organometal Halide Perovskite Films as Determined with Grazing-Incidence X-Ray Scattering Methods. <i>Advanced Energy Materials</i> , 2017, 7, 1700131.	19.5	113
35	Perovskite and Organic Solar Cells on a Rocket Flight. <i>Joule</i> , 2020, 4, 1880-1892.	24.0	107
36	Correlated Roughness, Long-Range Correlations, and Dewetting of Thin Polymer Films. <i>Macromolecules</i> , 1998, 31, 3686-3692.	4.8	105

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37	Synthesis of Perfectly Oriented and Micrometer-Sized MAPbBr ₃ Perovskite Crystals for Thin-Film Photovoltaic Applications. ACS Energy Letters, 2016, 1, 150-154.	17.4	103
38	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. Nature Energy, 2021, 6, 977-986.	39.5	103
39	Effect of Alcohol Treatment on the Performance of PTB7:PC ₇₁ BM Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 4641-4649.	8.0	100
40	Flexible Perovskite Solar Cells with High Power-Per-Weight: Progress, Application, and Perspectives. ACS Energy Letters, 2021, 6, 2917-2943.	17.4	100
41	Photophysics and Photocurrent Generation in Polythiophene/Polyfluorene Copolymer Blends. Advanced Functional Materials, 2009, 19, 3103-3111.	14.9	96
42	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. Journal of Physical Chemistry Letters, 2015, 6, 1265-1269.	4.6	96
43	Thermoresponsive PS- <i>b</i> -PNIPAM- <i>b</i> -PS Micelles: Aggregation Behavior, Segmental Dynamics, and Thermal Response. Macromolecules, 2010, 43, 2490-2501.	4.8	95
44	Ionic-Liquid Doping Enables High Transconductance, Fast Response Time, and High Ion Sensitivity in Organic Electrochemical Transistors. Advanced Materials, 2019, 31, e1805544.	21.0	95
45	Process-Aid Solid Engineering Triggers Delicately Modulation of Y-Series Non-Fullerene Acceptor for Efficient Organic Solar Cells. Advanced Materials, 2022, 34, e2200907.	21.0	94
46	Dewetting and pattern formation in thin polymer films as investigated in real and reciprocal space. Journal of Physics Condensed Matter, 2003, 15, R1549-R1582.	1.8	93
47	Fabrication and characterization of nanostructured titania films with integrated function from inorganic-organic hybrid materials. Chemical Society Reviews, 2012, 41, 5131.	38.1	90
48	Grazing incidence small-angle neutron scattering: challenges and possibilities. Polymer Journal, 2013, 45, 34-42.	2.7	90
49	Polyimide-Based Capacitive Humidity Sensor. Sensors, 2018, 18, 1516.	3.8	90
50	Highly Conducting, Transparent PEDOT:PSS Polymer Electrodes from Post-Treatment with Weak and Strong Acids. Advanced Electronic Materials, 2019, 5, 1800654.	5.1	87
51	Complex pattern formation by phase separation of polymer blends in thin films. Faraday Discussions, 1999, 112, 285-297.	3.2	86
52	Influence of Blend Composition on Phase Separation and Dewetting of Thin Polymer Blend Films. Macromolecules, 2000, 33, 4886-4895.	4.8	86
53	Self-assembled gradient nanoparticle-polymer multilayers investigated by an advanced characterization method: microbeam grazing incidence x-ray scattering. Applied Physics Letters, 2003, 82, 1935-1937.	3.3	86
54	A Basic Introduction to Grazing Incidence Small-Angle X-Ray Scattering. Lecture Notes in Physics, 2009, , 61-89.	0.7	86

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55	Solvent-Induced Surface Morphology of Thin Polymer Films. <i>Macromolecules</i> , 2001, 34, 1369-1375.	4.8	85
56	Observation of nano-dewetting structures. <i>Europhysics Letters</i> , 1997, 40, 655-660.	2.0	84
57	Effect of the zwitterion structure on the thermo-responsive behaviour of poly(sulfobetaine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	8.9	84
58	Monitoring the Swelling Behavior of PEDOT:PSS Electrodes under High Humidity Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9865-9872.	8.0	83
59	Solvent Content in Thin Spin-Coated Polystyrene Homopolymer Films. <i>Macromolecules</i> , 2009, 42, 337-344.	4.8	82
60	Following the Morphology Formation In Situ in Printed Active Layers for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501580.	19.5	82
61	Effect of Calcium Concentration on the Structure of Casein Micelles in Thin Films. <i>Biophysical Journal</i> , 2007, 93, 960-968.	0.5	80
62	Hierarchically Structured Titania Films Prepared by Polymer/Colloidal Templating. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2862-2869.	8.0	80
63	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio CsPbX ₃ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16094-16098.	13.8	79
64	Adhesive properties of acrylate copolymers: Effect of the nature of the substrate and copolymer functionality. <i>International Journal of Adhesion and Adhesives</i> , 2012, 34, 107-116.	2.9	78
65	Improved Power Conversion Efficiency of P3HT:PCBM Organic Solar Cells by Strong Spin-Orbit Coupling-Induced Delayed Fluorescence. <i>Advanced Energy Materials</i> , 2015, 5, 1401770.	19.5	78
66	Silicon/carbon lithium-ion battery anode with 3D hierarchical macro-/mesoporous silicon network: Self-templating synthesis via magnesiothermic reduction of silica/carbon composite. <i>Journal of Power Sources</i> , 2019, 412, 93-104.	7.8	77
67	The control of thin film morphology by the interplay of dewetting, phase separation and microphase separation. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S363-S386.	1.8	74
68	GISAXS and GISANS as metrology technique for understanding the 3D morphology of block copolymer thin films. <i>European Polymer Journal</i> , 2016, 81, 470-493.	5.4	74
69	Synthesis of Symmetrical Triblock Copolymers of Styrene and <i>N</i> -isopropylacrylamide Using Bifunctional Bis(trithiocarbonate)s as RAFT Agents. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 565-578.	2.2	73
70	Phase Separation and Molecular Intermixing in Polymer-Fullerene Bulk Heterojunction Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 683-688.	4.6	73
71	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan-Gelatin Hydrogel Composites for Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22902-22913.	8.0	72
72	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. <i>Energy and Environmental Science</i> , 2020, 13, 2467-2479.	30.8	69

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73	The Effect of Fluorination in Manipulating the Nanomorphology in PTB7:PC ₇₁ BM Bulk Heterojunction Systems. <i>Advanced Energy Materials</i> , 2015, 5, 1401315.	19.5	68
74	Optically Active Perovskite CsPbBr ₃ Nanocrystals Helically Arranged on Inorganic Silica Nanohelices. <i>Nano Letters</i> , 2020, 20, 8453-8460.	9.1	68
75	Grazing incidence wide angle x-ray scattering at the wiggler beamline BW4 of HASYLAB. <i>Review of Scientific Instruments</i> , 2010, 81, 105105.	1.3	67
76	Toward Tailored Film Morphologies: The Origin of Crystal Orientation in Hybrid Perovskite Thin Films. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600403.	3.7	67
77	Si/Ag/C Nanohybrids with <i>in Situ</i> Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018, 12, 861-875.	14.6	67
78	Ionic Liquids as Post-Treatment Agents for Simultaneous Improvement of Seebeck Coefficient and Electrical Conductivity in PEDOT:PSS Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8060-8071.	8.0	67
79	Charge-Carrier Trapping and Radiative Recombination in Metal Halide Perovskite Semiconductors. <i>Advanced Functional Materials</i> , 2020, 30, 2004312.	14.9	67
80	Nanostructured interfaces in polymer solar cells. <i>Applied Physics Letters</i> , 2010, 96, 263109.	3.3	66
81	Dewetting of confined polymer films: an X-ray and neutron scattering study. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3857-3863.	2.8	65
82	<i>In situ</i> observation of nanoparticle ordering at the air-water-substrate boundary in colloidal solutions using x-ray nanobeams. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	64
83	Phase Separation in Semidilute Aqueous Poly(<i>N</i> -isopropylacrylamide) Solutions. <i>Langmuir</i> , 2012, 28, 8791-8798.	3.5	64
84	Role of Sputter Deposition Rate in Tailoring Nanogranular Gold Structures on Polymer Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5629-5637.	8.0	64
85	Thin Films of Poly(<i>N</i> -isopropylacrylamide) End-Capped with <i>n</i> -Butyltrithiocarbonate. <i>Macromolecules</i> , 2008, 41, 3209-3218.	4.8	63
86	Patterned Diblock Co-Polymer Thin Films as Templates for Advanced Anisotropic Metal Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12470-12477.	8.0	63
87	Conjugated Donor Polymers: Structure Formation and Morphology in Solution, Bulk and Photovoltaic Blends. <i>Advanced Energy Materials</i> , 2017, 7, 1700314.	19.5	63
88	Phase Separation and Dewetting of Weakly Incompatible Polymer Blend Films. <i>Macromolecules</i> , 1998, 31, 5003-5009.	4.8	62
89	Intelligent Textiles with Comfort Regulation and Inhibition of Bacterial Adhesion Realized by Cross-Linking Poly(<i>n</i> -isopropylacrylamide- <i>co</i> -ethylene glycol methacrylate) to Cotton Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13647-13656.	8.0	62
90	Nanoparticles in Block-Copolymer Films Studied by Specular and Off-Specular Neutron Scattering. <i>Langmuir</i> , 2003, 19, 7783-7788.	3.5	61

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91	Decay of Interface Correlation in Thin Polymer Films. <i>Macromolecules</i> , 1998, 31, 9265-9272.	4.8	60
92	In-Operando Study of the Effects of Solvent Additives on the Stability of Organic Solar Cells Based on PTB7-Th:PC ₇₁ BM. <i>ACS Energy Letters</i> , 2019, 4, 464-470.	17.4	60
93	Facet Control for Trap-State Suppression in Colloidal Quantum Dot Solids. <i>Advanced Functional Materials</i> , 2020, 30, 2000594.	14.9	60
94	Adsorption of Ampholytic Diblock Copolymers from Dilute Aqueous Solution at the Solid/Liquid Interface. <i>Langmuir</i> , 1999, 15, 1260-1267.	3.5	59
95	Facile Optimization of Thermoelectric Properties in PEDOT:PSS Thin Films through Acido-Base and Redox Dedoping Using Readily Available Salts. <i>ACS Applied Energy Materials</i> , 2018, 1, 336-342.	5.1	59
96	Switch It Inside-Out: "Schizophrenic" Behavior of All Thermoresponsive UCST/LCST Diblock Copolymers. <i>Langmuir</i> , 2019, 35, 9660-9676.	3.5	59
97	In Situ Monitoring the Uptake of Moisture into Hybrid Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2015-2021.	4.6	58
98	Water-Induced Structural Rearrangements on the Nanoscale in Ultrathin Nanocellulose Films. <i>Macromolecules</i> , 2019, 52, 4721-4728.	4.8	58
99	Influence of Solvent and Solvent Additive on the Morphology of PTB7 Films Probed via X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 344-350.	2.6	57
100	Shedding Light on the Moisture Stability of 3D/2D Hybrid Perovskite Heterojunction Thin Films. <i>ACS Applied Energy Materials</i> , 2019, 2, 1011-1018.	5.1	56
101	From Molecular Dehydration to Excess Volumes of Phase-Separating PNIPAM Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4253-4260.	2.6	55
102	Thin Casein Films as Prepared by Spin-Coating: Influence of Film Thickness and of pH. <i>Biomacromolecules</i> , 2006, 7, 1773-1780.	5.4	54
103	Cyclic Switching of Water Storage in Thin Block Copolymer Films Containing Poly(<i>N</i> -isopropylacrylamide). <i>Macromolecules</i> , 2009, 42, 9041-9051.	4.8	54
104	In operando morphology investigation of inverted bulk heterojunction organic solar cells by GISAXS. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8324-8331.	10.3	54
105	Probing the in-plane composition of thin polymer films with grazing-incidence small-angle neutron scattering and atomic force microscopy. <i>Colloid and Polymer Science</i> , 1999, 277, 1193-1199.	2.1	53
106	Dewetting of thin polymer-blend films examined with GISAS. <i>Physica B: Condensed Matter</i> , 2000, 283, 53-59.	2.7	53
107	Spray Deposition of Titania Films with Incorporated Crystalline Nanoparticles for All-Solid-State Dye-Sensitized Solar Cells Using P3HT. <i>Advanced Functional Materials</i> , 2016, 26, 1498-1506.	14.9	53
108	Out-of-equilibrium processes in crystallization of organic-inorganic perovskites during spin coating. <i>Nature Communications</i> , 2021, 12, 5624.	12.8	53

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109	Bronze-Phase TiO ₂ as Anode Materials in Lithium and Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	53
110	Multiple-scaled polymer surfaces investigated with micro-focus grazing-incidence small-angle X-ray scattering. <i>Europhysics Letters</i> , 2003, 61, 639-645.	2.0	52
111	In situ GISAXS Investigation of Gold Sputtering onto a Polymer Template. <i>Langmuir</i> , 2008, 24, 4265-4272.	3.5	52
112	Cobalt Nanoparticles Growth on a Block Copolymer Thin Film: A Time-Resolved GISAXS Study. <i>Langmuir</i> , 2013, 29, 6331-6340.	3.5	52
113	Lead Sulfide Quantum Dot Photodetector with Enhanced Responsivity through a Two-Step Ligand-Exchange Method. <i>ACS Applied Nano Materials</i> , 2019, 2, 6135-6143.	5.0	52
114	Comparative analysis of nanostructured diblock copolymer films. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1789-1797.	2.9	51
115	Thermoresponsive amphiphilic symmetrical triblock copolymers with a hydrophilic middle block made of poly(N-isopropylacrylamide): synthesis, self-organization, and hydrogel formation. <i>Colloid and Polymer Science</i> , 2010, 288, 499-517.	2.1	51
116	Swelling and switching kinetics of gold coated end-capped poly(N-isopropylacrylamide) thin films. <i>Macromolecules</i> , 2010, 43, 2444-2452.	4.8	51
117	Investigation of morphological degradation of P3HT:PCBM bulk heterojunction films exposed to long-term host solvent vapor. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3743-3753.	10.3	51
118	Zintl Clusters as Wet-Chemical Precursors for Germanium Nanomorphologies with Tunable Composition. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2441-2445.	13.8	50
119	Solvent-Morphology-Property Relationship of PTB7:PC ₇₁ BM Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3740-3748.	8.0	50
120	Nanostructured Diblock Copolymer Films: A Grazing Incidence Small-Angle Neutron Scattering Study. <i>Langmuir</i> , 2003, 19, 7778-7782.	3.5	49
121	Energy Losses in Small-Molecule Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2017, 7, 1700237.	19.5	49
122	Surface versus Confinement Induced Morphology Transition in Triblock Copolymer Films: A Grazing Incidence Small Angle Neutron Scattering Investigation. <i>Langmuir</i> , 2006, 22, 9295-9303.	3.5	48
123	In situ observation of cluster formation during nanoparticle solution casting on a colloidal film. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 254208.	1.8	48
124	Enhanced Stain Removal and Comfort Control Achieved by Cross-Linking Light and Thermo Dual-Responsive Copolymer onto Cotton Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5414-5426.	8.0	48
125	Kinetics of Collapse Transition and Cluster Formation in a Thermoresponsive Micellar Solution of P(S- <i>b</i> -NIPAM- <i>b</i> -S) Induced by a Temperature Jump. <i>Macromolecular Rapid Communications</i> , 2012, 33, 254-259.	3.9	47
126	Morphology and Optical Properties of P3HT:MEH-CN-PPV Blend Films. <i>Macromolecules</i> , 2013, 46, 4491-4501.	4.8	47

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127	Morphological Degradation in Low Bandgap Polymer Solar Cells – An In Operando Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600712.	19.5	47
128	The Morphological Power of Soap: How Surfactants Lower the Sheet Resistance of PEDOT:PSS by Strong Impact on Inner Film Structure and Molecular Interface Orientation. <i>Advanced Electronic Materials</i> , 2016, 2, 1500377.	5.1	47
129	“Schizophrenic” Micelles from Doubly Thermoresponsive Polysulfobetaine- <i>b</i> -poly(<i>N</i> -isopropylmethacrylamide) Diblock Copolymers. <i>Macromolecules</i> , 2017, 50, 3985-3999.	4.8	47
130	Scalable in Situ Synthesis of Li ₄ Ti ₅ O ₁₂ /Carbon Nanohybrid with Supersmall Li ₄ Ti ₅ O ₁₂ Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2591-2602.	8.0	47
131	Linear Control of Moisture Permeability and Anti-adhesion of Bacteria in a Broad Temperature Region Realized by Cross-Linking Thermoresponsive Microgels onto Cotton Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30269-30277.	8.0	47
132	Stabilization of Thin Polymeric Bilayer Films on Top of Semiconductor Surfaces. <i>Langmuir</i> , 2003, 19, 8511-8520.	3.5	46
133	Combinatorial investigation of the isolated nanoparticle to coalescent layer transition in a gradient sputtered gold nanoparticle layer on top of polystyrene. <i>Applied Physics Letters</i> , 2006, 88, 021910.	3.3	46
134	In Situ X-ray Study of the Structural Evolution of Gold Nano-Domains by Spray Deposition on Thin Conductive P3HT Films. <i>Langmuir</i> , 2013, 29, 2490-2497.	3.5	46
135	Aggregation Behavior of Doubly Thermoresponsive Polysulfobetaine- <i>b</i> -poly(<i>N</i> -isopropylacrylamide) Diblock Copolymers. <i>Macromolecules</i> , 2016, 49, 6655-6668.	4.8	46
136	Single-crystal-like optoelectronic-properties of MAPbI ₃ perovskite polycrystalline thin films. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4822-4828.	10.3	46
137	Growth and Morphology of Sputtered Aluminum Thin Films on P3HT Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1055-1062.	8.0	45
138	Successive Spray Deposition of P3HT/PCBM Organic Photoactive Layers: Material Composition and Device Characteristics. <i>Advanced Functional Materials</i> , 2012, 22, 4078-4086.	14.9	45
139	Anatase titanium dioxide as rechargeable ion battery electrode - A chronological review. <i>Energy Storage Materials</i> , 2022, 45, 201-264.	18.0	45
140	Sponge-like structures for application in photovoltaics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1783-1798.	3.4	43
141	Morphology-Function Relationship of Thermoelectric Nanocomposite Films from PEDOT:PSS with Silicon Nanoparticles. <i>Advanced Electronic Materials</i> , 2017, 3, 1700181.	5.1	43
142	Metamorphosis of Heterostructured Surface-Mounted Metal-Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. <i>Advanced Materials</i> , 2021, 33, e2103218.	21.0	43
143	Determination of micrometer length scales with an X-ray reflection ultra small-angle scattering set-up. <i>Europhysics Letters</i> , 1998, 42, 517-522.	2.0	42
144	Ultrathin Anatase TiO ₂ Films with Stable Vesicle Morphology Templated by PMMA- <i>b</i> -PEO. <i>Small</i> , 2007, 3, 1379-1382.	10.0	42

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145	The effect of surface roughness on adhesive properties of acrylate copolymers. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 245-254.	2.9	42
146	Infiltration of Polymer Hole-Conductor into Mesoporous Titania Structures for Solid-State Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 719-729.	8.0	42
147	Inner Structure of Adsorbed Ionic Microgel Particles. <i>Langmuir</i> , 2014, 30, 7168-7176.	3.5	42
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