Ullrich Steiner

List of Publications by Year
in descending order

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282	21,556	6250 80	10724 138
papers	citations	h-index	g-index

289	289	289	22594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrically induced structure formation and pattern transfer. Nature, 2000, 403, 874-877.	13.7	738
2	Nanophase-Separated Polymer Films as High-Performance Antireflection Coatings. Science, 1999, 283, 520-522.	6.0	649
3	Structure Formation via Polymer Demixing in Spin-Cast Films. Macromolecules, 1997, 30, 4995-5003.	2.2	535
4	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. Energy and Environmental Science, 2017, 10, 604-613.	15.6	525
5	Surface-induced structure formation of polymer blends on patterned substrates. Nature, 1998, 391, 877-879.	13.7	514
6	Pointillist structural color in Pollia fruit. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15712-15715.	3.3	475
7	A Bicontinuous Double Gyroid Hybrid Solar Cell. Nano Letters, 2009, 9, 2807-2812.	4.5	446
8	Preparation of Single-Phase Films of CH₃NH₃Pb(I_{1â€“x}Br_x)₃ with Sharp Optical Band Edges. Journal of Physical Chemistry Letters, 2014, 5, 2501-2505.	2.1	385
9	A Nanostructured Electrochromic Supercapacitor. Nano Letters, 2012, 12, 1857-1862.	4.5	357
10	Doping of TiO₂for sensitized solar cells. Chemical Society Reviews, 2015, 44, 8326-8349.	18.7	355
11	Perovskite Solar Cell Stability in Humid Air: Partially Reversible Phase Transitions in the PbI₂â€CH₃NH₃Iâ€H₂O System. Advanced Energy Materials, 2016, 6, 1600846.	10.2	355
12	Mimicking the colourful wing scale structure of the Papilio blumei butterfly. Nature Nanotechnology, 2010, 5, 511-515.	15.6	353
13	Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators. Science, 2009, 323, 130-133.	6.0	345
14	Performance and Stability Enhancement of Dyeâ€Sensitized and Perovskite Solar Cells by Al Doping of TiO₂. Advanced Functional Materials, 2014, 24, 6046-6055.	7.8	330
15	Block copolymer self-assembly for nanophotonics. Chemical Society Reviews, 2015, 44, 5076-5091.	18.7	328
16	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. Nano Letters, 2010, 10, 2303-2309.	4.5	310
17	Metastable Underwater Superhydrophobicity. Physical Review Letters, 2010, 105, 166104.	2.9	304
18	Biomimetic layer-by-layer assembly of artificial nacre. Nature Communications, 2012, 3, 966.	5.8	303

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19	A 3D Optical Metamaterial Made by Selfâ€Assembly. Advanced Materials, 2012, 24, OP23-7.	11.1	288
20	Electrohydrodynamic instabilities in polymer films. Europhysics Letters, 2001, 53, 518-524.	0.7	275
21	Hierarchical structure formation and pattern replication induced by an electric field. Nature Materials, 2003, 2, 48-52.	13.3	258
22	Formation of Nanopatterned Polymer Blends in Photovoltaic Devices. Nano Letters, 2010, 10, 1302-1307.	4.5	248
23	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. Advanced Energy Materials, 2016, 6, 1600767.	10.2	224
24	Digital Color in Cellulose Nanocrystal Films. ACS Applied Materials & Interfaces, 2014, 6, 12302-12306.	4.0	222
25	Optical Properties of Gyroid Structured Materials: From Photonic Crystals to Metamaterials. Advanced Optical Materials, 2015, 3, 12-32.	3.6	213
26	Mesoporous SnO2 electron selective contact enables UV-stable perovskite solar cells. Nano Energy, 2016, 30, 517-522.	8.2	204
27	On the Role of Single Regiodefects and Polydispersity in Regioregular Poly(3-hexylthiophene): Defect Distribution, Synthesis of Defect-Free Chains, and a Simple Model for the Determination of Crystallinity. Journal of the American Chemical Society, 2012, 134, 4790-4805.	6.6	185
28	Electric field induced instabilities at liquid/liquid interfaces. Journal of Chemical Physics, 2001, 114, 2377-2381.	1.2	184
29	Controlled, Bioâ€inspired Selfâ€Assembly of Celluloseâ€Based Chiral Reflectors. Advanced Optical Materials, 2014, 2, 646-650.	3.6	179
30	Analysing photonic structures in plants. Journal of the Royal Society Interface, 2013, 10, 20130394.	1.5	178
31	Electronic Structure of Lowâ€Temperature Solutionâ€Processed Amorphous Metal Oxide Semiconductors for Thinâ€Film Transistor Applications. Advanced Functional Materials, 2015, 25, 1873-1885.	7.8	176
32	Atmospheric Influence upon Crystallization and Electronic Disorder and Its Impact on the Photophysical Properties of Organicâ€“Inorganic Perovskite Solar Cells. ACS Nano, 2015, 9, 2311-2320.	7.3	173
33	Anisotropic Charge Transport in Spherulitic Poly(3â€hexylthiophene) Films. Advanced Materials, 2012, 24, 839-844.	11.1	167
34	Block Copolymer Morphologies in Dye-Sensitized Solar Cells: Probing the Photovoltaic Structureâ^'Function Relation. Nano Letters, 2009, 9, 2813-2819.	4.5	163
35	Bright-White Beetle Scales Optimise Multiple Scattering of Light. Scientific Reports, 2014, 4, 6075.	1.6	161
36	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Ndâ€Doping of Mesostructured TiO₂. Advanced Energy Materials, 2016, 6, 1501868.	10.2	157

#	Article	IF	Citations
37	Enhanced Electrochromism in Gyroidâ€Structured Vanadium Pentoxide. Advanced Materials, 2012, 24, 1217-1221.	11.1	155
38	Self-Cleaning Antireflective Optical Coatings. Nano Letters, 2013, 13, 5329-5335.	4.5	155
39	Plasmonic Enhancement in BiVO₄ Photonic Crystals for Efficient Water Splitting. Small, 2014, 10, 3970-3978.	5.2	152
40	Structure Formation at the Interface of Liquid/Liquid Bilayer in Electric Field. Macromolecules, 2002, 35, 3971-3976.	2.2	151
41	Lessons Learned: From Dyeâ€Sensitized Solar Cells to Allâ€Solidâ€State Hybrid Devices. Advanced Materials, 2014, 26, 4013-4030.	11.1	144
42	Crystallization-Induced 10-nm Structure Formation in P3HT/PCBM Blends. Macromolecules, 2013, 46, 4002-4013.	2.2	136
43	Control of Solidâ€State Dyeâ€Sensitized Solar Cell Performance by Blockâ€Copolymerâ€Directed TiO₂ Synthesis. Advanced Functional Materials, 2010, 20, 1787-1796.	7.8	131
44	A Ga-doped SnO₂ mesoporous contact for UV stable highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 1850-1857.	5.2	129
45	Complete Wetting from Polymer Mixtures. Science, 1992, 258, 1126-1129.	6.0	124
46	Systematic Control of Nucleation Density in Poly(3â€Hexylthiophene) Thin Films. Advanced Functional Materials, 2011, 21, 518-524.	7.8	123
47	Nonequilibrium Polymer Rheology in Spin-Cast Films. Physical Review Letters, 2009, 102, 248303.	2.9	122
48	Disorder in convergent floral nanostructures enhances signalling to bees. Nature, 2017, 550, 469-474.	13.7	120
49	Single molecule SERS and detection of biomolecules with a single gold nanoparticle on a mirror junction. Analyst, The, 2013, 138, 4574.	1.7	115
50	Surface-Directed Spinodal Decomposition in Poly[3-hexylthiophene] and C₆₁-Butyric Acid Methyl Ester Blends. ACS Nano, 2011, 5, 329-336.	7.3	113
51	Charge Transport Limitations in Self-Assembled TiO₂ Photoanodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 698-703.	2.1	111
52	Efficient Electrochromic Devices Made from 3D Nanotubular Gyroid Networks. Nano Letters, 2013, 13, 3005-3010.	4.5	111
53	Lightâ€Directed Writing of Chemically Tunable Narrowâ€Band Holographic Sensors. Advanced Optical Materials, 2014, 2, 250-254.	3.6	110
54	Polyelectrolyte Brush Amplified Electroactuation of Microcantilevers. Nano Letters, 2008, 8, 725-730.	4.5	109

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55	Butterfly gyroid nanostructures as a time-frozen glimpse of intracellular membrane development. Science Advances, 2017, 3, e1603119.	4.7	109
56	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	13.3	109
57	Block copolymer directed synthesis of mesoporous TiO2for dye-sensitized solar cells. Soft Matter, 2009, 5, 134-139.	1.2	108
58	Flash Infrared Annealing for Antisolventâ€Free Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702915.	10.2	106
59	Processing Pathways Decide Polymer Properties at the Molecular Level. Macromolecules, 2019, 52, 7146-7156.	2.2	105
60	Nanostructured Calcite Single Crystals with Gyroid Morphologies. Advanced Materials, 2009, 21, 3928-3932.	11.1	103
61	Metal Oxide Nanoparticle Mediated Enhanced Raman Scattering and Its Use in Direct Monitoring of Interfacial Chemical Reactions. Nano Letters, 2012, 12, 4242-4246.	4.5	103
62	Optical analysis of CH₃NH₃Sn_xPb_{1â^'x}I₃ absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. Journal of Materials Chemistry A, 2016, 4, 11214-11221.	5.2	101
63	A review on the mechanical and thermodynamic robustness of superhydrophobic surfaces. Advances in Colloid and Interface Science, 2017, 246, 133-152.	7.0	101
64	Electric Field Induced Dewetting at Polymer/Polymer Interfaces. Macromolecules, 2002, 35, 6255-6262.	2.2	100
65	Natural Helicoidal Structures: Morphology, Self-assembly and Optical Properties. Materials Today: Proceedings, 2014, 1, 177-185.	0.9	100
66	Enhanced photocatalytic properties in well-ordered mesoporous WO3. Chemical Communications, 2010, 46, 7620.	2.2	98
67	Efficient and Stable Inorganic Perovskite Solar Cells Manufactured by Pulsed Flash Infrared Annealing. Advanced Energy Materials, 2018, 8, 1802060.	10.2	98
68	The flower of <scp>H</scp>ibiscus trionum is both visibly and measurably iridescent. New Phytologist, 2015, 205, 97-101.	3.5	97
69	Evolutionaryâ€Optimized Photonic Network Structure in White Beetle Wing Scales. Advanced Materials, 2018, 30, e1702057.	11.1	95
70	Strong Photocurrent from Two-Dimensional Excitons in Solution-Processed Stacked Perovskite Semiconductor Sheets. ACS Applied Materials & Interfaces, 2015, 7, 25227-25236.	4.0	93
71	Electric-Field-Induced Pattern Morphologies in Thin Liquid Films. Advanced Functional Materials, 2006, 16, 926-934.	7.8	91
72	Morphologies in Ternary Polymer Blends after Spin-Coating. Langmuir, 1999, 15, 4828-4836.	1.6	89

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73	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	15.6	88
74	Tunable Mesoporous Bragg Reflectors Based on Blockâ€Copolymer Selfâ€Assembly. Advanced Materials, 2011, 23, 3664-3668.	11.1	88
75	Structure at polymer interfaces determined by highâ€resolution nuclear reaction analysis. Applied Physics Letters, 1990, 56, 1228-1230.	1.5	86
76	Thermomechanical Lithography: Pattern Replication Using a Temperature Gradient Driven Instability. Advanced Materials, 2003, 15, 514-517.	11.1	86
77	Function of blue iridescence in tropical understorey plants. Journal of the Royal Society Interface, 2010, 7, 1699-1707.	1.5	86
78	Freestanding nanowire arrays from soft-etch block copolymer templates. Soft Matter, 2007, 3, 94-98.	1.2	84
79	Highâ€Resolution Nanoimprinting with a Robust and Reusable Polymer Mold. Advanced Functional Materials, 2007, 17, 2419-2425.	7.8	83
80	Surface phase inversion in finite-sized binary mixtures. Physical Review Letters, 1994, 72, 1498-1501.	2.9	81
81	Influence of molecular weight on the solar cell performance of double-crystalline donor-acceptor block copolymers. Applied Physics Letters, 2009, 95, 183308.	1.5	81
82	Physical Passivation of Grain Boundaries and Defects in Perovskite Solar Cells by an Isolating Thin Polymer. ACS Energy Letters, 2021, 6, 2626-2634.	8.8	81
83	Tunable 3D Extended Selfâ€Assembled Gold Metamaterials with Enhanced Light Transmission. Advanced Materials, 2013, 25, 2713-2716.	11.1	80
84	Morphological Instability of a Confined Polymer Film in a Thermal Gradient. Macromolecules, 2003, 36, 1645-1655.	2.2	78
85	Formation of Wellâ€Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. Advanced Functional Materials, 2011, 21, 139-146.	7.8	78
86	Pore Filling of Spiroâ€OMeTAD in Solidâ€State Dyeâ€Sensitized Solar Cells Determined Via Optical Reflectometry. Advanced Functional Materials, 2012, 22, 5010-5019.	7.8	78
87	Efficient room temperature aqueous Sb₂S₃ synthesis for inorganicâ€“organic sensitized solar cells with 5.1% efficiencies. Chemical Communications, 2015, 51, 8640-8643.	2.2	78
88	Aging of Thin Polymer Films Cast from a Near-Theta Solvent. Physical Review Letters, 2010, 105, 227801.	2.9	74
89	Nonequilibrium behavior of thin polymer films. Physical Review E, 2011, 83, 021804.	0.8	71
90	Polymer-Templated LiFePO₄/C Nanonetworks as High-Performance Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1646-1653.	4.0	71

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91	Porous translucent electrodes enhance current generation from photosynthetic biofilms. Nature Communications, 2018, 9, 1299.	5.8	70
92	Entropy Driven Phase Separation in Binary Emulsions. Physical Review Letters, 1995, 74, 4750-4753.	2.9	68
93	Gyroidâ€Structured 3D ZnO Networks Made by Atomic Layer Deposition. Advanced Functional Materials, 2014, 24, 863-872.	7.8	68
94	Hierarchic Structure Formation in Binary and Ternary Polymer Blends. Journal of Materials Science, 2003, 11, 225-235.	1.2	67
95	Super-hydrophobic surfaces made from Teflon. Soft Matter, 2007, 3, 426-429.	1.2	67
96	Rapid Electrohydrodynamic Lithography Using Lowâ€Viscosity Polymers. Small, 2010, 6, 1248-1254.	5.2	66
97	Room-temperature development of thin film composite reverse osmosis membranes from cellulose acetate with antibacterial properties. Journal of Membrane Science, 2014, 453, 212-220.	4.1	66
98	Extreme Refractive Index Wing Scale Beads Containing Dense Pterin Pigments Cause the Bright Colors of Pierid Butterflies. Advanced Optical Materials, 2017, 5, 1600879.	3.6	64
99	Temperature-gradientâ€“induced instability in polymer films. Europhysics Letters, 2002, 60, 255-261.	0.7	63
100	Stretch-tuneable dielectric mirrors and optical microcavities. Optics Express, 2010, 18, 4356.	1.7	63
101	Interfacial structure in polymer mixtures below the critical point. Physical Review Letters, 1989, 63, 616-619.	2.9	62
102	Electroluminescence from Organometallic Lead Halide Perovskiteâ€Conjugated Polymer Diodes. Advanced Electronic Materials, 2015, 1, 1500008.	2.6	62
103	Spontaneous crystal coalescence enables highly efficient perovskite solar cells. Nano Energy, 2017, 39, 24-29.	8.2	62
104	Bioâ€Inspired Hierarchical Polymer Fiberâ€“Carbon Nanotube Adhesives. Advanced Materials, 2014, 26, 1456-1461.	11.1	61
105	Hierarchical Pattern Formation in Thin Polymer Films Using an Electric Field and Vapor Sorption. Advanced Functional Materials, 2005, 15, 2016-2020.	7.8	58
106	Controlled solvent vapour annealing for polymer electronics. Soft Matter, 2009, 5, 4206.	1.2	58
107	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. Journal of Materials Chemistry, 2012, 22, 1078-1087.	6.7	58
108	Triblockâ€Terpolymerâ€Directed Selfâ€Assembly of Mesoporous TiO₂: Highâ€Performance Photoanodes for Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 676-682.	10.2	58

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109	Pattern Replication by Confined Dewetting. Langmuir, 2003, 19, 9714-9718.	1.6	55
110	Structural colour from helicoidal cell-wall architecture in fruits ofMargaritaria nobilis. Journal of the Royal Society Interface, 2016, 13, 20160645.	1.5	55
111	Surface phase behavior in binary polymer mixtures. I. Miscibility, phase coexistence, and interactions in polyolefin blends. Journal of Chemical Physics, 1996, 104, 8786-8794.	1.2	54
112	Nanoparticle shapes of LiMnPO4, Li+ diffusion orientation and diffusion coefficients for high volumetric energy Li+ ion cathodes. Journal of Power Sources, 2017, 342, 231-240.	4.0	54
113	Friction ridges in cockroach climbing pads: anisotropy of shear stress measured on transparent, microstructured substrates. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2009, 195, 805-814.	0.7	52
114	Solvent-Vapor-Assisted Imprint Lithography. Advanced Materials, 2007, 19, 757-761.	11.1	51
115	Segmental Relaxations have Macroscopic Consequences in Glassy Polymer Films. Physical Review Letters, 2012, 109, 136102.	2.9	51
116	Towards Longâ€Term Photostability of Solidâ€State Dye Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1301667.	10.2	51
117	Single Nanoparticle SERS Probes of Ion Intercalation in Metal-Oxide Electrodes. Nano Letters, 2014, 14, 495-498.	4.5	51
118	Surface phase behavior in binary polymer mixtures. II. Surface enrichment from polyolefin blends. Journal of Chemical Physics, 1996, 104, 8795-8806.	1.2	49
119	The effects of confinement and surface interactions on coexistence in a binary polymer mixture. Journal of Chemical Physics, 1992, 97, 5229-5238.	1.2	47
120	Soft Lithography of Ceramic Patterns. Advanced Functional Materials, 2007, 17, 1131-1136.	7.8	47
121	The mirror crack'd: both pigment and structure contribute to the glossy blue appearance of the mirror orchid, Ophrys speculum. New Phytologist, 2012, 196, 1038-1047.	3.5	47
122	Mesoporous Titania Microspheres with Highly Tunable Pores as an Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 22388-22397.	4.0	47
123	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. Advanced Optical Materials, 2021, 9, 2100175.	3.6	47
124	Improved electrochromic performance in inverse opal vanadium oxide films. Journal of Materials Chemistry, 2010, 20, 7131.	6.7	45
125	Insect adhesion on rough surfaces: analysis of adhesive contact of smooth and hairy pads on transparent microstructured substrates. Journal of the Royal Society Interface, 2014, 11, 20140499.	1.5	45
126	Highly Planarized Naphthalene Diimideâ€“Bifuran Copolymers with Unexpected Charge Transport Performance. Chemistry of Materials, 2017, 29, 5473-5483.	3.2	45

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127	Lithiation Thermodynamics and Kinetics of the TiO₂ (B) Nanoparticles. Journal of the American Chemical Society, 2017, 139, 13330-13341.	6.6	45
128	Spreading Dynamics of Polydimethylsiloxane Drops: Crossover from Laplace to Van der Waals Spreading. Journal of Colloid and Interface Science, 2001, 234, 178-193.	5.0	44
129	Hierarchical Electrohydrodynamic Structures for Surfaceâ€Enhanced Raman Scattering. Advanced Materials, 2012, 24, OP175-80, OP174.	11.1	44
130	Influence of solution heating on the properties of PEDOT:PSS colloidal solutions and impact on the device performance of polymer solar cells. Organic Electronics, 2011, 12, 1736-1745.	1.4	41
131	Synchrotron Big Data Science. Small, 2018, 14, e1802291.	5.2	41
132	Soft-Etch Mesoporous Hole-Conducting Block Copolymer Templates. ACS Nano, 2010, 4, 962-966.	7.3	40
133	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. Journal of Materials Chemistry, 2010, 20, 1261-1268.	6.7	40
134	Directional scattering from the glossy flower of Ranunculus : how the buttercup lights up your chin. Journal of the Royal Society Interface, 2012, 9, 1295-1301.	1.5	40
135	Molecular Forces Caused by the Confinement of Thermal Noise. Physical Review Letters, 2004, 92, 156102.	2.9	39
136	Gyroid Optical Metamaterials: Calculating the Effective Permittivity of Multidomain Samples. ACS Photonics, 2016, 3, 1888-1896.	3.2	38
137	TiO2 patterning using electro-hydrodynamic lithography. Soft Matter, 2007, 3, 554.	1.2	37
138	Alignment of Lamellar Block Copolymers via Electrohydrodynamicâ€Driven Micropatterning. Advanced Materials, 2008, 20, 3022-3027.	11.1	37
139	Tunable Charge Transport Using Supramolecular Self-Assembly of Nanostructured Crystalline Block Copolymers. ACS Nano, 2011, 5, 3506-3515.	7.3	37
140	Ultrafast Nonlinear Response of Gold Gyroid Three-Dimensional Metamaterials. Physical Review Applied, 2014, 2, .	1.5	37
141	Hierarchical Pattern Replication by Polymer Demixing. Advanced Materials, 2003, 15, 703-706.	11.1	36
142	Pattern formation induced by an electric field in a polymerâ€“airâ€“polymer thin film system. Soft Matter, 2012, 8, 6333.	1.2	36
143	Structure formation in P3HT/F8TBT blends. Energy and Environmental Science, 2014, 7, 1725-1736.	15.6	36
144	Growth of Wetting Layers from Liquid Mixtures. Physical Review Letters, 1996, 77, 2526-2529.	2.9	35

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145	Layerâ€byâ€Layer Formation of Blockâ€Copolymerâ€Derived TiO₂ for Solidâ€State Dyeâ€Sensitized Solar Cells. Small, 2012, 8, 432-440.	5.2	35
146	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. Journal of Materials Chemistry A, 2015, 3, 11478-11492.	5.2	35
147	Dynamics of mixing between partially miscible polymers. Physical Review Letters, 1990, 64, 1119-1121.	2.9	34
148	Pattern formation in thin polymer films by spatially modulated electric fields. Soft Matter, 2009, 5, 3997.	1.2	34
149	Control of gyroid forming block copolymer templates: effects of an electric field and surface topography. Soft Matter, 2010, 6, 670-676.	1.2	34
150	Bioinspired Polymerâ€“Inorganic Hybrid Materials. Advanced Materials, 2006, 18, 2270-2273.	11.1	33
151	Wetting induced instabilities in miscible polymer blends. Soft Matter, 2010, 6, 3517.	1.2	33
152	Strong Circular Dichroism in Single Gyroid Optical Metamaterials. Advanced Optical Materials, 2020, 8, 1902131.	3.6	32
153	Ultrathin polymeric films for interfacial passivation in wide band-gap perovskite solar cells. Scientific Reports, 2020, 10, 22260.	1.6	31
154	Scalable Cylindrical Metallodielectric Metamaterials. Advanced Materials, 2009, 21, 3933-3936.	11.1	30
155	Determining the Contribution of Epidermal Cell Shape to Petal Wettability Using Isogenic Antirrhinum Lines. PLoS ONE, 2011, 6, e17576.	1.1	30
156	Coexistence in a Binary Isotopic Polymer Mixture. Europhysics Letters, 1992, 18, 705-710.	0.7	29
157	Self-diffusion in melts of statistical copolymers: The effect of changes in microstructural composition. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1821-1831.	2.4	29
158	Contributions of iridescence to floral patterning. Communicative and Integrative Biology, 2009, 2, 230-232.	0.6	29
159	Direct stress measurements in thin polymer films. Soft Matter, 2011, 7, 7839.	1.2	29
160	Thin film synthesis of SbSI micro-crystals for self-powered photodetectors with rapid time response. Nanoscale, 2016, 8, 15920-15925.	2.8	29
161	Optical Imaging of Large Gyroid Grains in Block Copolymer Templates by Confined Crystallization. Macromolecules, 2017, 50, 6255-6262.	2.2	29
162	Acoustic instabilities in thin polymer films. European Physical Journal E, 2002, 8, 347-351.	0.7	28

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163	Organic field effect transistors from triarylamine side-chain polymers. Applied Physics Letters, 2010, 96, 073503.	1.5	28
164	The indentation response of Nickel nano double gyroid lattices. Extreme Mechanics Letters, 2017, 10, 15-23.	2.0	28
165	Ultrastructure and optics of the prismâ€like petal epidermal cells of Eschscholzia californica (California poppy). New Phytologist, 2018, 219, 1124-1133.	3.5	28
166	Matrix-Modulated Swelling of a Polymer Brush. Europhysics Letters, 1992, 20, 499-504.	0.7	27
167	Polymer Crystallization as a Tool To Pattern Hybrid Nanostructures: Growth of 12 nm ZnO Arrays in Poly(3-hexylthiophene). Nano Letters, 2013, 13, 4499-4504.	4.5	27
168	Hierarchical Orientation of Crystallinity by Block-Copolymer Patterning and Alignment in an Electric Field. Chemistry of Materials, 2013, 25, 1063-1070.	3.2	27
169	Structural colour in Chondrus crispus. Scientific Reports, 2015, 5, 11645.	1.6	27
170	Morphology-Dependent Charge Photogeneration in Donorâ€“Acceptor Block Copolymer Films Based on Poly(3-hexylthiophene)-block-Poly(perylene bisimide acrylate). Journal of Physical Chemistry B, 2012, 116, 10070-10078.	1.2	26
171	Surface Reconstruction Limited Conductivity in Blockâ€Copolymer Li Battery Electrolytes. Advanced Functional Materials, 2019, 29, 1905977.	7.8	26
172	Phase Evolution During Perovskite Formationâ€”Insight from Pair Distribution Function Analysis. Chemistry of Materials, 2019, 31, 3498-3506.	3.2	26
173	Substructure formation during pattern transposition from substrate into polymer blend film. Europhysics Letters, 2003, 62, 855-861.	0.7	25
174	3D Nanostructured Conjugated Polymers for Optical Applications. Advanced Functional Materials, 2015, 25, 6900-6905.	7.8	25
175	Soft Photonic Fibers for Colorimetric Solvent Vapor Sensing. Advanced Optical Materials, 2020, 8, 2000165.	3.6	25
176	Visualizing Magnetic Structure in 3D Nanoscale Niâ€“Fe Gyroid Networks. Nano Letters, 2020, 20, 3642-3650.	4.5	25
177	Effect of Au Nanoparticle Spatial Distribution on the Stability of Thin Polymer Films. Langmuir, 2013, 29, 6706-6714.	1.6	24
178	Intrinsic Stresses in Thin Glassy Polymer Films Revealed by Crack Formation. Macromolecules, 2016, 49, 9060-9067.	2.2	24
179	Metasurfaces Atop Metamaterials: Surface Morphology Induces Linear Dichroism in Gyroid Optical Metamaterials. Advanced Materials, 2019, 31, 1803478.	11.1	24
180	Measurements of polymer diffusion over small distances. A check of reptation arguments. Journal De Physique II, 1991, 1, 659-671.	0.9	23

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181	Capillary instabilities by fluctuation induced forces. European Physical Journal E, 2003, 12, 375-381.	0.7	23
182	Tunable Microstructured Surface-Enhanced Raman Scattering Substrates via Electrohydrodynamic Lithography. Journal of Physical Chemistry Letters, 2013, 4, 4153-4159.	2.1	23
183	Partial oxidation of the absorber layer reduces charge carrier recombination in antimony sulfide solar cells. Physical Chemistry Chemical Physics, 2017, 19, 1425-1430.	1.3	23
184	Fabrication of Subâ€10â€‰nm Metallic Lines of Low Lineâ€Width Roughness by Hydrogen Reduction of Patterned Metalâ€“Organic Materials. Advanced Functional Materials, 2010, 20, 2317-2323.	7.8	22
185	Carbon Nanotube Alignment via Electrohydrodynamic Patterning of Nanocomposites. Advanced Functional Materials, 2011, 21, 1895-1901.	7.8	22
186	Fractionated Crystallization of Defect-Free Poly(3-hexylthiophene). ACS Macro Letters, 2012, 1, 1170-1175.	2.3	22
187	Gyroidal mesoporous multifunctional nanocomposites via atomic layer deposition. Nanoscale, 2014, 6, 8736.	2.8	22
188	Diblock copolymers attached to homopolymer surfaces and interfaces. Macromolecules, 1993, 26, 2470-2478.	2.2	21
189	Role of PbSe Structural Stabilization in Photovoltaic Cells. Advanced Functional Materials, 2015, 25, 928-935.	7.8	21
190	Controlling Selfâ€Assembly in Gyroid Terpolymer Films By Solvent Vapor Annealing. Small, 2018, 14, e1802401.	5.2	21
191	RYB tri-colour electrochromism based on a molecular cobaloxime. Chemical Communications, 2013, 49, 10453.	2.2	20
192	Labyrinthâ€Induced Faceted Electrochemical Growth. Advanced Materials, 2014, 26, 2403-2407.	11.1	20
193	Tuning the Properties of a UV-Polymerized, Cross-Linked Solid Polymer Electrolyte for Lithium Batteries. Polymers, 2020, 12, 595.	2.0	20
194	Low temperature crystallisation of mesoporous TiO2. Nanoscale, 2013, 5, 10518.	2.8	19
195	Designing refractive index fluids using the Kramersâ€“Kronig relations. Faraday Discussions, 2020, 223, 136-144.	1.6	19
196	Phosphonic anchoring groups in organic dyes for solid-state solar cells. Physical Chemistry Chemical Physics, 2015, 17, 18780-18789.	1.3	18
197	Chemical vapour deposition of freestanding sub-60â€‰nm graphene gyroids. Applied Physics Letters, 2017, 111, .	1.5	18
198	Comparing the excited-state properties of a mixed-cationâ€“mixed-halide perovskite to methylammonium lead iodide. Journal of Chemical Physics, 2020, 152, 104703.	1.2	18

#	Article	IF	Citations
199	Critical point wetting from binary polymer mixtures. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 366-372.	0.9	17
200	Patterning of Crystalline Organic Materials by Electroâ€hydrodynamic Lithography. Small, 2012, 8, 2595-2601.	5.2	17
201	Polymerizationâ€Induced Wrinkled Surfaces with Controlled Topography as Slippery Surfaces for Colorado Potato Beetles. Advanced Materials Interfaces, 2020, 7, 2000129.	1.9	17
202	Shaping Perovskites: In Situ Crystallization Mechanism of Rapid Thermally Annealed, Prepatterned Perovskite Films. ACS Applied Materials & Interfaces, 2021, 13, 6854-6863.	4.0	17
203	Title is missing!. Acta Polymerica, 1997, 48, 548-552.	1.3	16
204	Patterning Self-Assembled Monolayers on Oxide Surfaces Using a Lift-off Technique. Advanced Materials, 1999, 11, 1431-1433.	11.1	16
205	Pattern formation by temperature-gradient driven film instabilities in laterally confined geometries. Soft Matter, 2005, 1, 62.	1.2	16
206	In situ Electrochemical Monitoring of Selective Etching in Ordered Mesoporous Block-Copolymer Templates. ACS Applied Materials & Interfaces, 2011, 3, 1375-1379.	4.0	16
207	Clean Block Copolymer Microparticles from Supercritical CO₂: Universal Templates for the Facile and Scalable Fabrication of Hierarchical Mesostructured Metal Oxides. Nano Letters, 2018, 18, 7560-7569.	4.5	16
208	Thin-film structural coloration from simple fused scales in moths. Interface Focus, 2019, 9, 20180044.	1.5	16
209	Aspects of electrohydrodynamic instabilities at polymer interfaces. Fibers and Polymers, 2003, 4, 1-7.	1.1	15
210	Self-Rolled Multilayer Metasurfaces. ACS Photonics, 2019, 6, 2198-2204.	3.2	15
211	Comparing Percolation and Alignment of Cellulose Nanocrystals for the Reinforcement of Polyurethane Nanocomposites. ACS Applied Materials & Interfaces, 2022, 14, 7270-7282.	4.0	15
212	Interference of microstructure and isotope labeling effects in polymer blend compatibility. Macromolecules, 1993, 26, 3858-3861.	2.2	14
213	Magnetic properties of ceramics from the pyrolysis of metallocene-based polymers doped with palladium. Journal of Applied Physics, 2011, 109, .	1.1	13
214	Solvent-Resistant Ultraflat Gold Using Liquid Glass. Langmuir, 2012, 28, 1347-1350.	1.6	13
215	A high transmission wave-guide wire network made by self-assembly. Nanoscale, 2015, 7, 1032-1036.	2.8	13
216	Enhancing the Refractive Index of Polymers with a Plantâ€Based Pigment. Small, 2021, 17, e2103061.	5.2	13

#	Article	IF	Citations
217	In-situ observation of moisture-induced degradation of perovskite solar cells using laser-beam induced current. , 2016, , .		12
218	Patterning of perovskiteâ€“polymer films by wrinkling instabilities. Soft Matter, 2017, 13, 1654-1659.	1.2	12
219	Structural Diversity with Varying Disorder Enables the Multicolored Display in the Longhorn Beetle Sulawesiella rafaelae. IScience, 2020, 23, 101339.	1.9	12
220	Flash Infrared Pulse Time Control of Perovskite Crystal Nucleation and Growth from Solution. Crystal Growth and Design, 2020, 20, 670-679.	1.4	12
221	Melt-Spun Nanocomposite Fibers Reinforced with Aligned Tunicate Nanocrystals. Polymers, 2019, 11, 1912.	2.0	11
222	Photonic Particles Made by the Confined Selfâ€Assembly of a Supramolecular Combâ€Like Block Copolymer. Macromolecular Rapid Communications, 2021, , 2100522.	2.0	11
223	Electrospinning of Cellulose Nanocrystal-Reinforced Polyurethane Fibrous Mats. Polymers, 2020, 12, 1021.	2.0	11
224	Halogen-bond driven self-assembly of perfluorocarbon monolayers on silicon nitride. Journal of Materials Chemistry A, 2019, 7, 24445-24453.	5.2	10
225	Interplay of electrohydrodynamic structure formation and microphase alignment in lamellar block copolymers. Soft Matter, 2012, 8, 3841.	1.2	9
226	Nacre-inspired Hard and Tough Materials. Chimia, 2019, 73, 29.	0.3	9
227	Determining the complex Jones matrix elements of a chiral 3D optical metamaterial. APL Photonics, 2019, 4, .	3.0	9
228	Carbonâ€Assisted Stable Silver Nanostructures. Advanced Materials Interfaces, 2020, 7, 2001227.	1.9	9
229	Multilayer mirrored bubbles with spatially-chirped and elastically-tuneable optical bandgaps. Optics Express, 2012, 20, 6421.	1.7	8
230	Thermal oxidation of amorphous germanium thin films on SiO₂substrates. Semiconductor Science and Technology, 2016, 31, 125017.	1.0	8
231	Ultralow surface energy self-assembled monolayers of iodo-perfluorinated alkanes on silica driven by halogen bonding. Nanoscale, 2019, 11, 2401-2411.	2.8	8
232	Hyperbolic Optical Metamaterials from Shearâ€Aligned Block Copolymer Cylinder Arrays. Advanced Photonics Research, 2020, 1, 2000037.	1.7	8
233	Host-guest complexation in hybrid perovskite optoelectronics. JPhys Materials, 2021, 4, 042011.	1.8	8
234	Pachyrhynchus Weevils Use 3D Photonic Crystals with Varying Degrees of Order to Create Diverse and Brilliant Displays. Small, 2022, 18, e2200592.	5.2	8

#	Article	IF	Citations
235	Is floral iridescence a biologically relevant cue in plantâ€“pollinator signalling? A response to van der Kooi etÂal. (2014b). New Phytologist, 2015, 205, 21-22.	3.5	7
236	One-Step Solvent-Free Mechanochemical Incorporation of Insoluble Cesium Salt into Perovskites for Wide Band-Gap Solar Cells. Chemistry of Materials, 2021, 33, 3971-3979.	3.2	7
237	Multiscale in modelling and validation for solar photovoltaics. EPJ Photovoltaics, 2018, 9, 10.	0.8	6
238	Nuclear reaction analysis: A study on the interface formation in polymer mixtures below the critical point. Makromolekulare Chemie Macromolecular Symposia, 1991, 45, 283-288.	0.6	5
239	Force measurements using capillary instabilities. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3395-3405.	2.4	5
240	Diffusive structural colour in Hoplia argentea. Journal of Experimental Biology, 2019, 222, .	0.8	5
241	Spherical indentation response of a Ni double gyroid nanolattice. Scripta Materialia, 2020, 188, 64-68.	2.6	5
242	Insect Antiadhesive Surfaces Using Electrosprayed Wrinkled Ethyl Cellulose Particles. ACS Applied Materials & Interfaces, 2021, 13, 9232-9238.	4.0	5
243	Polymer-templated mesoporous lithium titanate microspheres for high-performance lithium batteries. Materials Advances, 2022, 3, 362-372.	2.6	5
244	Epitaxial growth of solution deposited Bi $_mathsf{2}$ Sr $_mathsf{2}$ CaCu $_mathsf{2}$ O $_mathsf{x}$ films. European Physical Journal B, 2004, 39, 149-154.	0.6	4
245	Intrinsic viscoelasticity in thin high-molecular-weight polymer films. Physical Review E, 2014, 89, 062604.	0.8	4
246	Visualization of energy: light dose indicator based on electrochromic gyroid nano-materials. Nanotechnology, 2015, 26, 225501.	1.3	4
247	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. RSC Advances, 2015, 5, 22499-22502.	1.7	4
248	When Black and White make Green: the Surprising Interplay of Structure and Pigments. Chimia, 2019, 73, 47.	0.3	4
249	Distributed Bragg reflectors from colloidal trilayer flake solutions. APL Photonics, 2021, 6, .	3.0	4
250	Surface Segregation and Wetting from Polymer Mixtures. , 1994, , 313-322.		4
251	Bio-mimetic Structural Colour using Biopolymers. RSC Polymer Chemistry Series, 2016, , 555-585.	0.1	4
252	Short-time dynamics of polymer diffusion across an interface. , 1993, , 93-96.		3

#	Article	IF	Citations
253	Epitaxial growth of solution deposited YBa2Cu3O7-Î´ films. European Physical Journal B, 2004, 42, 483.	0.6	3
254	Response to Comment on â€œFloral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinatorsâ€• Science, 2009, 325, 1072-1072.	6.0	3
255	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells. Proceedings of SPIE, 2011, , .	0.8	3
256	Spectrally resolved surface plasmon resonance dispersion using half-ball optics. Applied Physics Letters, 2017, 111, 201102.	1.5	3
257	Nuclear Reaction Analysis Studies on the Interface Formation in Polymer Mixtures. Materials Research Society Symposia Proceedings, 1989, 177, 367.	0.1	2
258	Self-organized organic nanostructures: structure formation in thin polymer blend films. Surface and Interface Analysis, 2004, 36, 195-196.	0.8	2
259	Soft Matterâ€”crossing the boundaries of physics, chemistry, and biology. Soft Matter, 2005, 1, 11.	1.2	2
260	Soft Matter: the essential ingredient for success. Soft Matter, 2006, 2, 9-11.	1.2	2
261	Mesoporous Bragg reflectors: block-copolymer self-assembly leads to building blocks with well defined continuous pores and high control over optical properties. , 2011, , .		2
262	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). Advanced Energy Materials, 2016, 6, .	10.2	2
263	Photonic Structures in Plants. Series in Optics and Optoelectronics, 2012, , 1-18.	0.0	2
264	Diffusion Limited Wetting. Materials Research Society Symposia Proceedings, 1996, 464, 121.	0.1	1
265	Reply to Roberts et al.: Reflectivity and pointillist structural color on land and in water. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3388-E3388.	3.3	1
266	Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings. Proceedings of SPIE, 2014, , .	0.8	1
267	Structural Color in Animals. , 2012, , 2514-2527.		1
268	Scalable Cylindrical Metallo-Dielectric Metamaterials. , 2010, , .		1
269	Metamaterial Eigenmodes beyondHomogenization. Optical Materials Express, 0, , .	1.6	1
270	One small step for Soft Matter, one giant leap for research. Soft Matter, 2006, 2, 630.	1.2	0

#	Article	IF	Citations
271	Going solo. Soft Matter, 2007, 3, 15-18.	1.2	0
272	Soft Matterâ€“ what an impact. Soft Matter, 2008, 4, 15-17.	1.2	0
273	Five years on. Soft Matter, 2009, 5, 20-22.	1.2	0
274	Using nanocavity plasmons to improve solar cell efficiency. , 2009, , .		0
275	Hierarchical Electrohydrodynamic Structures for Surface-Enhanced Raman Scattering (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	11.1	0
276	Optical metamaterials made by polymer self-assembly. , 2017, , .		0
277	Towards Polymers with Molecular Auxeticity. Chimia, 2019, 73, 25-28.	0.3	0
278	Bio-inspired optics: general discussion. Faraday Discussions, 2020, 223, 183-194.	1.6	0
279	Stretch-tuneable Dielectric Mirrors and Microcavities. , 2010, , .		0
280	Electrochemical Replication of Self-Assembled Block Copolymer Nanostructures. , 2011, , 63-116.		0
281	Adsorption and Wetting from Tunable Polyolefin Mixtures. , 1997, , 81-94.		0
282	Accounting for Optical Generation in the Quasi-Neutral Regions of Perovskite Solar Cells. IEEE Journal of the Electron Devices Society, 2022, , 1-1.	1.2	0