

Ullrich Steiner

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289
ext. papers

19,896
ext. citations

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L-index

#	Paper	IF	Citations
271	Electrically induced structure formation and pattern transfer. <i>Nature</i> , 2000 , 403, 874-7	50.4	677
270	Nanophase-separated polymer films as high-performance antireflection coatings. <i>Science</i> , 1999 , 283, 520-2	33.3	574
269	Structure Formation via Polymer Demixing in Spin-Cast Films. <i>Macromolecules</i> , 1997 , 30, 4995-5003	5.5	493
268	Surface-induced structure formation of polymer blends on patterned substrates. <i>Nature</i> , 1998 , 391, 877-879	30.4	481
267	A bicontinuous double gyroid hybrid solar cell. <i>Nano Letters</i> , 2009 , 9, 2807-12	11.5	392
266	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 604-613	35.4	387
265	Pointillist structural color in Pollia fruit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15712-5	11.5	369
264	Preparation of Single-Phase Films of CH ₃ NH ₃ Pb(I _{1-x} Br _x) ₃ with Sharp Optical Band Edges. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2501-5	6.4	347
263	A nanostructured electrochromic supercapacitor. <i>Nano Letters</i> , 2012 , 12, 1857-62	11.5	301
262	Mimicking the colourful wing scale structure of the Papilio blumei butterfly. <i>Nature Nanotechnology</i> , 2010 , 5, 511-5	28.7	301
261	Dye-sensitized solar cell based on a three-dimensional photonic crystal. <i>Nano Letters</i> , 2010 , 10, 2303-9	11.5	295
260	Performance and Stability Enhancement of Dye-Sensitized and Perovskite Solar Cells by Al Doping of TiO ₂ . <i>Advanced Functional Materials</i> , 2014 , 24, 6046-6055	15.6	294
259	Doping of TiO ₂ for sensitized solar cells. <i>Chemical Society Reviews</i> , 2015 , 44, 8326-49	58.5	268
258	Biomimetic layer-by-layer assembly of artificial nacre. <i>Nature Communications</i> , 2012 , 3, 966	17.4	264
257	Perovskite Solar Cell Stability in Humid Air: Partially Reversible Phase Transitions in the PbI ₂ -CH ₃ NH ₃ I-H ₂ O System. <i>Advanced Energy Materials</i> , 2016 , 6, 1600846	21.8	263
256	Floral iridescence, produced by diffractive optics, acts as a cue for animal pollinators. <i>Science</i> , 2009 , 323, 130-3	33.3	262
255	Electrohydrodynamic instabilities in polymer films. <i>Europhysics Letters</i> , 2001 , 53, 518-524	1.6	251

254	Block copolymer self-assembly for nanophotonics. <i>Chemical Society Reviews</i> , 2015 , 44, 5076-91	58.5	248
253	Metastable underwater superhydrophobicity. <i>Physical Review Letters</i> , 2010 , 105, 166104	7.4	247
252	A 3D optical metamaterial made by self-assembly. <i>Advanced Materials</i> , 2012 , 24, OP23-7	24	245
251	Hierarchical structure formation and pattern replication induced by an electric field. <i>Nature Materials</i> , 2003 , 2, 48-52	27	244
250	Formation of nanopatterned polymer blends in photovoltaic devices. <i>Nano Letters</i> , 2010 , 10, 1302-7	11.5	236
249	Digital color in cellulose nanocrystal films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12302-6	9.5	177
248	Electric field induced instabilities at liquid/liquid interfaces. <i>Journal of Chemical Physics</i> , 2001 , 114, 2377-2381	3.9	171
247	Optical Properties of Gyroid Structured Materials: From Photonic Crystals to Metamaterials. <i>Advanced Optical Materials</i> , 2015 , 3, 12-32	8.1	169
246	Mesoporous SnO ₂ electron selective contact enables UV-stable perovskite solar cells. <i>Nano Energy</i> , 2016 , 30, 517-522	17.1	165
245	Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency. <i>Advanced Energy Materials</i> , 2016 , 6, 1600767	21.8	165
244	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. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4790-805	16.4	163
243	Anisotropic charge transport in spherulitic poly(3-hexylthiophene) films. <i>Advanced Materials</i> , 2012 , 24, 839-44	24	157
242	Block copolymer morphologies in dye-sensitized solar cells: probing the photovoltaic structure-function relation. <i>Nano Letters</i> , 2009 , 9, 2813-9	11.5	156
241	Atmospheric influence upon crystallization and electronic disorder and its impact on the photophysical properties of organic-inorganic perovskite solar cells. <i>ACS Nano</i> , 2015 , 9, 2311-20	16.7	152
240	Structure Formation at the Interface of Liquid/Liquid Bilayer in Electric Field. <i>Macromolecules</i> , 2002 , 35, 3971-3976	5.5	146
239	Electronic Structure of Low-Temperature Solution-Processed Amorphous Metal Oxide Semiconductors for Thin-Film Transistor Applications. <i>Advanced Functional Materials</i> , 2015 , 25, 1873-1885	15.6	144
238	Enhanced electrochromism in gyroid-structured vanadium pentoxide. <i>Advanced Materials</i> , 2012 , 24, 1217-21	7.1	139
237	Controlled, Bio-inspired Self-Assembly of Cellulose-Based Chiral Reflectors. <i>Advanced Optical Materials</i> , 2014 , 2, 646-650	8.1	134

236	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. <i>Advanced Materials</i> , 2014 , 26, 4013-30	24	133
235	Analysing photonic structures in plants. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130394	4.1	133
234	Enhanced Efficiency and Stability of Perovskite Solar Cells Through Nd-Doping of Mesostructured TiO ₂ . <i>Advanced Energy Materials</i> , 2016 , 6, 1501868	21.8	130
233	Plasmonic enhancement in BiVO ₄ photonic crystals for efficient water splitting. <i>Small</i> , 2014 , 10, 3970-8	11	129
232	Crystallization-Induced 10-nm Structure Formation in P3HT/PCBM Blends. <i>Macromolecules</i> , 2013 , 46, 4002-4013	5.5	126
231	Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO ₂ Synthesis. <i>Advanced Functional Materials</i> , 2010 , 20, 1787-1796	15.6	125
230	Self-cleaning antireflective optical coatings. <i>Nano Letters</i> , 2013 , 13, 5329-35	11.5	124
229	Bright-white beetle scales optimise multiple scattering of light. <i>Scientific Reports</i> , 2014 , 4, 6075	4.9	123
228	Nonequilibrium polymer rheology in spin-cast films. <i>Physical Review Letters</i> , 2009 , 102, 248303	7.4	117
227	Systematic Control of Nucleation Density in Poly(3-Hexylthiophene) Thin Films. <i>Advanced Functional Materials</i> , 2011 , 21, 518-524	15.6	110
226	Complete wetting from polymer mixtures. <i>Science</i> , 1992 , 258, 1126-9	33.3	110
225	Surface-directed spinodal decomposition in poly[3-hexylthiophene] and α -butyric acid methyl ester blends. <i>ACS Nano</i> , 2011 , 5, 329-36	16.7	105
224	Block copolymer directed synthesis of mesoporous TiO ₂ for dye-sensitized solar cells. <i>Soft Matter</i> , 2009 , 5, 134-139	3.6	104
223	Charge Transport Limitations in Self-Assembled TiO ₂ Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 698-703	6.4	103
222	Polyelectrolyte brush amplified electroactuation of microcantilevers. <i>Nano Letters</i> , 2008 , 8, 725-30	11.5	103
221	Efficient electrochromic devices made from 3D nanotubular gyroid networks. <i>Nano Letters</i> , 2013 , 13, 3005-10	11.5	99
220	Light-Directed Writing of Chemically Tunable Narrow-Band Holographic Sensors. <i>Advanced Optical Materials</i> , 2014 , 2, 250-254	8.1	98
219	Single molecule SERS and detection of biomolecules with a single gold nanoparticle on a mirror junction. <i>Analyst</i> , 2013 , 138, 4574-8	5	98

218	Metal oxide nanoparticle mediated enhanced Raman scattering and its use in direct monitoring of interfacial chemical reactions. <i>Nano Letters</i> , 2012 , 12, 4242-6	11.5	95
217	Nanostructured Calcite Single Crystals with Gyroid Morphologies. <i>Advanced Materials</i> , 2009 , 21, 3928-3932	11.5	94
216	Enhanced photocatalytic properties in well-ordered mesoporous WO ₃ . <i>Chemical Communications</i> , 2010 , 46, 7620-2	5.8	93
215	A Ga-doped SnO ₂ mesoporous contact for UV stable highly efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1850-1857	13	91
214	Electric-Field-Induced Pattern Morphologies in Thin Liquid Films. <i>Advanced Functional Materials</i> , 2006 , 16, 926-934	15.6	90
213	Electric Field Induced Dewetting at Polymer/Polymer Interfaces. <i>Macromolecules</i> , 2002 , 35, 6255-6262	5.5	89
212	Flash Infrared Annealing for Antisolvent-Free Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702915	21.8	88
211	Optical analysis of CH ₃ NH ₃ Sn Pb I absorbers: a roadmap for perovskite-on-perovskite tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11214-11221	13	87
210	Butterfly gyroid nanostructures as a time-frozen glimpse of intracellular membrane development. <i>Science Advances</i> , 2017 , 3, e1603119	14.3	86
209	Natural Helicoidal Structures: Morphology, Self-assembly and Optical Properties. <i>Materials Today: Proceedings</i> , 2014 , 1, 177-185	1.4	84
208	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO ₂ crystallisation. <i>Energy and Environmental Science</i> , 2011 , 4, 225-233	35.4	83
207	Morphologies in Ternary Polymer Blends after Spin-Coating. <i>Langmuir</i> , 1999 , 15, 4828-4836	4	81
206	Tunable mesoporous bragg reflectors based on block-copolymer self-assembly. <i>Advanced Materials</i> , 2011 , 23, 3664-8	24	80
205	Freestanding nanowire arrays from soft-etch block copolymer templates. <i>Soft Matter</i> , 2006 , 3, 94-98	3.6	78
204	High-Resolution Nanoimprinting with a Robust and Reusable Polymer Mold. <i>Advanced Functional Materials</i> , 2007 , 17, 2419-2425	15.6	78
203	Efficient and Stable Inorganic Perovskite Solar Cells Manufactured by Pulsed Flash Infrared Annealing. <i>Advanced Energy Materials</i> , 2018 , 8, 1802060	21.8	78
202	Influence of molecular weight on the solar cell performance of double-crystalline donor-acceptor block copolymers. <i>Applied Physics Letters</i> , 2009 , 95, 183308	3.4	77
201	Thermomechanical Lithography: Pattern Replication Using a Temperature Gradient Driven Instability. <i>Advanced Materials</i> , 2003 , 15, 514-517	24	77

200	Structure at polymer interfaces determined by high-resolution nuclear reaction analysis. <i>Applied Physics Letters</i> , 1990 , 56, 1228-1230	3.4	77
199	Strong Photocurrent from Two-Dimensional Excitons in Solution-Processed Stacked Perovskite Semiconductor Sheets. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25227-36	9.5	76
198	Tunable 3D extended self-assembled gold metamaterials with enhanced light transmission. <i>Advanced Materials</i> , 2013 , 25, 2713-6	24	76
197	Formation of Well-Ordered Heterojunctions in Polymer:PCBM Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2011 , 21, 139-146	15.6	76
196	Aging of thin polymer films cast from a near-theta solvent. <i>Physical Review Letters</i> , 2010 , 105, 227801	7.4	74
195	Disorder in convergent floral nanostructures enhances signalling to bees. <i>Nature</i> , 2017 , 550, 469-474	50.4	73
194	The flower of <i>Hibiscus trionum</i> is both visibly and measurably iridescent. <i>New Phytologist</i> , 2015 , 205, 97-101	9.8	73
193	Pore Filling of Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells Determined Via Optical Reflectometry. <i>Advanced Functional Materials</i> , 2012 , 22, 5010-5019	15.6	72
192	Function of blue iridescence in tropical understorey plants. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1699-707	4.1	72
191	Surface phase inversion in finite-sized binary mixtures. <i>Physical Review Letters</i> , 1994 , 72, 1498-1501	7.4	72
190	Nonequilibrium behavior of thin polymer films. <i>Physical Review E</i> , 2011 , 83, 021804	2.4	70
189	Morphological Instability of a Confined Polymer Film in a Thermal Gradient. <i>Macromolecules</i> , 2003 , 36, 1645-1655	5.5	70
188	Processing Pathways Decide Polymer Properties at the Molecular Level. <i>Macromolecules</i> , 2019 , 52, 7146-7156	5.5	68
187	A review on the mechanical and thermodynamic robustness of superhydrophobic surfaces. <i>Advances in Colloid and Interface Science</i> , 2017 , 246, 133-152	14.3	65
186	Super-hydrophobic surfaces made from Teflon. <i>Soft Matter</i> , 2007 , 3, 426-429	3.6	64
185	Evolutionary-Optimized Photonic Network Structure in White Beetle Wing Scales. <i>Advanced Materials</i> , 2018 , 30, e1702057	24	61
184	Gyroid-Structured 3D ZnO Networks Made by Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2014 , 24, 863-872	15.6	61
183	Hierarchic Structure Formation in Binary and Ternary Polymer Blends. <i>Journal of Materials Science</i> , 2003 , 11, 225-235		61

182	Entropy driven phase separation in binary emulsions. <i>Physical Review Letters</i> , 1995 , 74, 4750-4753	7.4	61
181	Rapid electrohydrodynamic lithography using low-viscosity polymers. <i>Small</i> , 2010 , 6, 1248-54	11	59
180	Efficient room temperature aqueous Sb ₂ S ₃ synthesis for inorganic-organic sensitized solar cells with 5.1% efficiencies. <i>Chemical Communications</i> , 2015 , 51, 8640-3	5.8	58
179	Hierarchical Pattern Formation in Thin Polymer Films Using an Electric Field and Vapor Sorption. <i>Advanced Functional Materials</i> , 2005 , 15, 2016-2020	15.6	56
178	Electroluminescence from Organometallic Lead Halide Perovskite-Conjugated Polymer Diodes. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500008	6.4	55
177	Polymer-Templated LiFePO ₄ /C Nanonetworks as High-Performance Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1646-1653	9.5	55
176	Room-temperature development of thin film composite reverse osmosis membranes from cellulose acetate with antibacterial properties. <i>Journal of Membrane Science</i> , 2014 , 453, 212-220	9.6	55
175	Temperature-gradient-induced instability in polymer films. <i>Europhysics Letters</i> , 2002 , 60, 255-261	1.6	54
174	Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO ₂ : High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 676-682	21.8	53
173	Interfacial structure in polymer mixtures below the critical point. <i>Physical Review Letters</i> , 1989 , 63, 616-619	7.9	53
172	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1078-1087		52
171	Pattern Replication by Confined Dewetting. <i>Langmuir</i> , 2003 , 19, 9714-9718	4	52
170	Spontaneous crystal coalescence enables highly efficient perovskite solar cells. <i>Nano Energy</i> , 2017 , 39, 24-29	17.1	51
169	Bio-inspired hierarchical polymer fiber-carbon nanotube adhesives. <i>Advanced Materials</i> , 2014 , 26, 1456-614	24	51
168	Controlled solvent vapour annealing for polymer electronics. <i>Soft Matter</i> , 2009 , 5, 4206	3.6	51
167	Surface phase behavior in binary polymer mixtures. I. Miscibility, phase coexistence, and interactions in polyolefin blends. <i>Journal of Chemical Physics</i> , 1996 , 104, 8786-8794	3.9	49
166	Single nanoparticle SERS probes of ion intercalation in metal-oxide electrodes. <i>Nano Letters</i> , 2014 , 14, 495-8	11.5	48
165	Stretch-tuneable dielectric mirrors and optical microcavities. <i>Optics Express</i> , 2010 , 18, 4356-64	3.3	48

164	Towards Long-Term Photostability of Solid-State Dye Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301667	21.8	47
163	Porous translucent electrodes enhance current generation from photosynthetic biofilms. <i>Nature Communications</i> , 2018 , 9, 1299	17.4	46
162	Soft Lithography of Ceramic Patterns. <i>Advanced Functional Materials</i> , 2007 , 17, 1131-1136	15.6	46
161	Solvent-Vapor-Assisted Imprint Lithography. <i>Advanced Materials</i> , 2007 , 19, 757-761	24	46
160	Segmental relaxations have macroscopic consequences in glassy polymer films. <i>Physical Review Letters</i> , 2012 , 109, 136102	7.4	45
159	Hierarchical electrohydrodynamic structures for surface-enhanced Raman scattering. <i>Advanced Materials</i> , 2012 , 24, OP175-80, OP174	24	43
158	The effects of confinement and surface interactions on coexistence in a binary polymer mixture. <i>Journal of Chemical Physics</i> , 1992 , 97, 5229-5238	3.9	42
157	Mesoporous Titania Microspheres with Highly Tunable Pores as an Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22388-22397	9.5	41
156	Nanoparticle shapes of LiMnPO ₄ , Li ⁺ diffusion orientation and diffusion coefficients for high volumetric energy Li ⁺ ion cathodes. <i>Journal of Power Sources</i> , 2017 , 342, 231-240	8.9	41
155	Extreme Refractive Index Wing Scale Beads Containing Dense Pterin Pigments Cause the Bright Colors of Pierid Butterflies. <i>Advanced Optical Materials</i> , 2017 , 5, 1600879	8.1	41
154	Friction ridges in cockroach climbing pads: anisotropy of shear stress measured on transparent, microstructured substrates. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009 , 195, 805-14	2.3	41
153	Structural colour from helicoidal cell-wall architecture in fruits of. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	41
152	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010 , 20, 1261-1268		40
151	Surface phase behavior in binary polymer mixtures. II. Surface enrichment from polyolefin blends. <i>Journal of Chemical Physics</i> , 1996 , 104, 8795-8806	3.9	40
150	Improved electrochromic performance in inverse opal vanadium oxide films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7131		39
149	Highly Planarized Naphthalene Diimide-Bifuran Copolymers with Unexpected Charge Transport Performance. <i>Chemistry of Materials</i> , 2017 , 29, 5473-5483	9.6	38
148	Insect adhesion on rough surfaces: analysis of adhesive contact of smooth and hairy pads on transparent microstructured substrates. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140499	4.1	38
147	Molecular forces caused by the confinement of thermal noise. <i>Physical Review Letters</i> , 2004 , 92, 156102	7.4	38

146	Spreading Dynamics of Polydimethylsiloxane Drops: Crossover from Laplace to Van der Waals Spreading. <i>Journal of Colloid and Interface Science</i> , 2001 , 234, 178-193	9.3	38
145	Influence of solution heating on the properties of PEDOT:PSS colloidal solutions and impact on the device performance of polymer solar cells. <i>Organic Electronics</i> , 2011 , 12, 1736-1745	3.5	37
144	Alignment of Lamellar Block Copolymers via Electrohydrodynamic-Driven Micropatterning. <i>Advanced Materials</i> , 2008 , 20, 3022-3027	24	36
143	Hierarchical Pattern Replication by Polymer Demixing. <i>Advanced Materials</i> , 2003 , 15, 703-706	24	36
142	Structure formation in P3HT/F8TBT blends. <i>Energy and Environmental Science</i> , 2014 , 7, 1725-1736	35.4	35
141	Tunable charge transport using supramolecular self-assembly of nanostructured crystalline block copolymers. <i>ACS Nano</i> , 2011 , 5, 3506-15	16.7	35
140	The mirror crack: both pigment and structure contribute to the glossy blue appearance of the mirror orchid, <i>Ophrys speculum</i> . <i>New Phytologist</i> , 2012 , 196, 1038-1047	9.8	34
139	TiO patterning using electro-hydrodynamic lithography. <i>Soft Matter</i> , 2007 , 3, 554-557	3.6	34
138	Revisiting metal fluorides as lithium-ion battery cathodes. <i>Nature Materials</i> , 2021 , 20, 841-850	27	34
137	Lithiation Thermodynamics and Kinetics of the TiO (B) Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13330-13341	16.4	33
136	Pattern formation induced by an electric field in a polymer-polymer thin film system. <i>Soft Matter</i> , 2012 , 8, 6333	3.6	33
135	Soft-etch mesoporous hole-conducting block copolymer templates. <i>ACS Nano</i> , 2010 , 4, 962-6	16.7	33
134	Wetting induced instabilities in miscible polymer blends. <i>Soft Matter</i> , 2010 , 6, 3517	3.6	33
133	Control of gyroid forming block copolymer templates: effects of an electric field and surface topography. <i>Soft Matter</i> , 2010 , 6, 670-676	3.6	33
132	Layer-by-layer formation of block-copolymer-derived TiO(2) for solid-state dye-sensitized solar cells. <i>Small</i> , 2012 , 8, 432-40	11	32
131	Bioinspired Polymer-Inorganic Hybrid Materials. <i>Advanced Materials</i> , 2006 , 18, 2270-2273	24	32
130	Growth of Wetting Layers from Liquid Mixtures. <i>Physical Review Letters</i> , 1996 , 77, 2526-2529	7.4	32
129	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11478-11492	13	31

128	Pattern formation in thin polymer films by spatially modulated electric fields. <i>Soft Matter</i> , 2009 , 5, 3997	3.6	31
127	Dynamics of mixing between partially miscible polymers. <i>Physical Review Letters</i> , 1990 , 64, 1119-1121	7.4	30
126	Directional scattering from the glossy flower of <i>Ranunculus</i> : how the buttercup lights up your chin. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1295-301	4.1	29
125	Coexistence in a Binary Isotopic Polymer Mixture. <i>Europhysics Letters</i> , 1992 , 18, 705-710	1.6	28
124	Ultrafast Nonlinear Response of Gold Gyroid Three-Dimensional Metamaterials. <i>Physical Review Applied</i> , 2014 , 2,	4.3	27
123	Polymer crystallization as a tool to pattern hybrid nanostructures: growth of 12 nm ZnO arrays in poly(3-hexylthiophene). <i>Nano Letters</i> , 2013 , 13, 4499-504	11.5	27
122	Acoustic instabilities in thin polymer films. <i>European Physical Journal E</i> , 2002 , 8, 347-51	1.5	27
121	Gyroid Optical Metamaterials: Calculating the Effective Permittivity of Multidomain Samples. <i>ACS Photonics</i> , 2016 , 3, 1888-1896	6.3	27
120	Direct stress measurements in thin polymer films. <i>Soft Matter</i> , 2011 , 7, 7839	3.6	26
119	Contributions of iridescence to floral patterning. <i>Communicative and Integrative Biology</i> , 2009 , 2, 230-2	1.7	26
118	Scalable Cylindrical Metallodielectric Metamaterials. <i>Advanced Materials</i> , 2009 , 21, 3933-3936	24	26
117	Optical Imaging of Large Gyroid Grains in Block Copolymer Templates by Confined Crystallization. <i>Macromolecules</i> , 2017 , 50, 6255-6262	5.5	25
116	Determining the contribution of epidermal cell shape to petal wettability using isogenic <i>Antirrhinum</i> lines. <i>PLoS ONE</i> , 2011 , 6, e17576	3.7	25
115	Matrix-Modulated Swelling of a Polymer Brush. <i>Europhysics Letters</i> , 1992 , 20, 499-504	1.6	25
114	Thin film synthesis of SbSI micro-crystals for self-powered photodetectors with rapid time response. <i>Nanoscale</i> , 2016 , 8, 15920-5	7.7	24
113	Morphology-dependent charge photogeneration in donor-acceptor block copolymer films based on poly(3-hexylthiophene)-block-poly(perylene bisimide acrylate). <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10070-8	3.4	24
112	Hierarchical Orientation of Crystallinity by Block-Copolymer Patterning and Alignment in an Electric Field. <i>Chemistry of Materials</i> , 2013 , 25, 1063-1070	9.6	24
111	Effect of Au nanoparticle spatial distribution on the stability of thin polymer films. <i>Langmuir</i> , 2013 , 29, 6706-14	4	24

110	Substructure formation during pattern transposition from substrate into polymer blend film. <i>Europhysics Letters</i> , 2003 , 62, 855-861	1.6	24
109	Self-diffusion in melts of statistical copolymers: The effect of changes in microstructural composition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995 , 33, 1821-1831	2.6	24
108	The indentation response of Nickel nano double gyroid lattices. <i>Extreme Mechanics Letters</i> , 2017 , 10, 15-23	3.9	22
107	Organic field effect transistors from triarylamine side-chain polymers. <i>Applied Physics Letters</i> , 2010 , 96, 073503	3.4	22
106	Capillary instabilities by fluctuation induced forces. <i>European Physical Journal E</i> , 2003 , 12, 375-9; discussion 380-1	1.5	22
105	Phase Evolution During Perovskite Formation Insight from Pair Distribution Function Analysis. <i>Chemistry of Materials</i> , 2019 , 31, 3498-3506	9.6	21
104	Fabrication of Sub-10 nm Metallic Lines of Low Line-Width Roughness by Hydrogen Reduction of Patterned Metal/Organic Materials. <i>Advanced Functional Materials</i> , 2010 , 20, 2317-2323	15.6	21
103	Diblock copolymers attached to homopolymer surfaces and interfaces. <i>Macromolecules</i> , 1993 , 26, 2470-2478	3.5	21
102	Physical Passivation of Grain Boundaries and Defects in Perovskite Solar Cells by an Isolating Thin Polymer. <i>ACS Energy Letters</i> , 2021 , 6, 2626-2634	20.1	21
101	3D Nanostructured Conjugated Polymers for Optical Applications. <i>Advanced Functional Materials</i> , 2015 , 25, 6900-6905	15.6	20
100	Synchrotron Big Data Science. <i>Small</i> , 2018 , 14, e1802291	11	20
99	Gyroidal mesoporous multifunctional nanocomposites via atomic layer deposition. <i>Nanoscale</i> , 2014 , 6, 8736-42	7.7	19
98	Labyrinth-induced faceted electrochemical growth. <i>Advanced Materials</i> , 2014 , 26, 2403-7	24	19
97	Measurements of polymer diffusion over small distances. A check of reptation arguments. <i>Journal De Physique II</i> , 1991 , 1, 659-671		19
96	Low temperature crystallisation of mesoporous TiO ₂ . <i>Nanoscale</i> , 2013 , 5, 10518-24	7.7	18
95	RYB tri-colour electrochromism based on a molecular cobaloxime. <i>Chemical Communications</i> , 2013 , 49, 10453-5	5.8	18
94	Structural colour in <i>Chondrus crispus</i> . <i>Scientific Reports</i> , 2015 , 5, 11645	4.9	18
93	Controlling Self-Assembly in Gyroid Terpolymer Films By Solvent Vapor Annealing. <i>Small</i> , 2018 , 14, e1802401	4.01	18

92	Strong Circular Dichroism in Single Gyroid Optical Metamaterials. <i>Advanced Optical Materials</i> , 2020 , 8, 1902131	8.1	17
91	Tunable Microstructured Surface-Enhanced Raman Scattering Substrates via Electrohydrodynamic Lithography. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 4153-4159	6.4	17
90	Metasurfaces Atop Metamaterials: Surface Morphology Induces Linear Dichroism in Gyroid Optical Metamaterials. <i>Advanced Materials</i> , 2019 , 31, e1803478	24	17
89	Role of PbSe Structural Stabilization in Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 928-935	13.5	16
88	Soft Photonic Fibers for Colorimetric Solvent Vapor Sensing. <i>Advanced Optical Materials</i> , 2020 , 8, 2000165	16.1	16
87	Chemical vapour deposition of freestanding sub-60 nm graphene gyroids. <i>Applied Physics Letters</i> , 2017 , 111, 253103	3.4	16
86	Fractionated Crystallization of Defect-Free Poly(3-hexylthiophene). <i>ACS Macro Letters</i> , 2012 , 1, 1170-1175	11.5	16
85	Patterning of crystalline organic materials by electro-hydrodynamic lithography. <i>Small</i> , 2012 , 8, 2595-6011	11	16
84	In situ electrochemical monitoring of selective etching in ordered mesoporous block-copolymer templates. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1375-9	9.5	16
83	Real-space composition depth profiling in polymeric samples to 3 nm resolution using the 2H(3He, 1H)4He nuclear reaction. <i>Acta Polymerica</i> , 1997 , 48, 548-552		16
82	Partial oxidation of the absorber layer reduces charge carrier recombination in antimony sulfide solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1425-1430	3.6	15
81	Ultrastructure and optics of the prism-like petal epidermal cells of <i>Eschscholzia californica</i> (California poppy). <i>New Phytologist</i> , 2018 , 219, 1124-1133	9.8	15
80	Phosphonic anchoring groups in organic dyes for solid-state solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18780-9	3.6	15
79	Carbon Nanotube Alignment via Electrohydrodynamic Patterning of Nanocomposites. <i>Advanced Functional Materials</i> , 2011 , 21, 1895-1901	15.6	15
78	Critical point wetting from binary polymer mixtures. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 366-372		15
77	Intrinsic Stresses in Thin Glassy Polymer Films Revealed by Crack Formation. <i>Macromolecules</i> , 2016 , 49, 9060-9067	5.5	15
76	Patterning Self-Assembled Monolayers on Oxide Surfaces Using a Lift-off Technique. <i>Advanced Materials</i> , 1999 , 11, 1431-1433	24	14
75	Tuning the Properties of a UV-Polymerized, Cross-Linked Solid Polymer Electrolyte for Lithium Batteries. <i>Polymers</i> , 2020 , 12,	4.5	13

74	Solvent-resistant ultraflat gold using liquid glass. <i>Langmuir</i> , 2012 , 28, 1347-50	4	13
73	Pattern formation by temperature-gradient driven film instabilities in laterally confined geometries. <i>Soft Matter</i> , 2005 , 1, 62-65	3.6	13
72	Aspects of electrohydrodynamic instabilities at polymer interfaces. <i>Fibers and Polymers</i> , 2003 , 4, 1-7	2	13
71	Interference of microstructure and isotope labeling effects in polymer blend compatibility. <i>Macromolecules</i> , 1993 , 26, 3858-3861	5.5	13
70	Ultrathin polymeric films for interfacial passivation in wide band-gap perovskite solar cells. <i>Scientific Reports</i> , 2020 , 10, 22260	4.9	13
69	Polymerization-Induced Wrinkled Surfaces with Controlled Topography as Slippery Surfaces for Colorado Potato Beetles. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000129	4.6	11
68	Designing refractive index fluids using the Kramers-Kronig relations. <i>Faraday Discussions</i> , 2020 , 223, 136-144	3.6	11
67	Surface Reconstruction Limited Conductivity in Block-Copolymer Li Battery Electrolytes. <i>Advanced Functional Materials</i> , 2019 , 29, 1905977	15.6	11
66	Magnetic properties of ceramics from the pyrolysis of metallocene-based polymers doped with palladium. <i>Journal of Applied Physics</i> , 2011 , 109, 073904	2.5	11
65	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. <i>Advanced Optical Materials</i> , 2021 , 9, 2100175	8.1	11
64	Patterning of perovskite-polymer films by wrinkling instabilities. <i>Soft Matter</i> , 2017 , 13, 1654-1659	3.6	10
63	Clean Block Copolymer Microparticles from Supercritical CO: Universal Templates for the Facile and Scalable Fabrication of Hierarchical Mesostructured Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 7560-7569	11.5	10
62	A high transmission wave-guide wire network made by self-assembly. <i>Nanoscale</i> , 2015 , 7, 1032-6	7.7	9
61	Interplay of electrohydrodynamic structure formation and microphase alignment in lamellar block copolymers. <i>Soft Matter</i> , 2012 , 8, 3841	3.6	9
60	Self-Rolled Multilayer Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 2198-2204	6.3	8
59	Comparing the excited-state properties of a mixed-cation-mixed-halide perovskite to methylammonium lead iodide. <i>Journal of Chemical Physics</i> , 2020 , 152, 104703	3.9	8
58	Visualizing Magnetic Structure in 3D Nanoscale Ni-Fe Gyroid Networks. <i>Nano Letters</i> , 2020 , 20, 3642-3650	1.5	8
57	Surface Instability and Pattern Formation in thin Polymer Films 2011 , 217-265		8

56	In-situ observation of moisture-induced degradation of perovskite solar cells using laser-beam induced current 2016 ,		8
55	Melt-Spun Nanocomposite Fibers Reinforced with Aligned Tunicate Nanocrystals. <i>Polymers</i> , 2019 , 11,	4.5	8
54	Ultralow surface energy self-assembled monolayers of iodo-perfluorinated alkanes on silica driven by halogen bonding. <i>Nanoscale</i> , 2019 , 11, 2401-2411	7.7	7
53	Thin-film structural coloration from simple fused scales in moths. <i>Interface Focus</i> , 2019 , 9, 20180044	3.9	7
52	Is floral iridescence a biologically relevant cue in plant-pollinator signalling? A response to van der Kooi et al. (2014b). <i>New Phytologist</i> , 2015 , 205, 21-2	9.8	7
51	Flash Infrared Pulse Time Control of Perovskite Crystal Nucleation and Growth from Solution. <i>Crystal Growth and Design</i> , 2020 , 20, 670-679	3.5	7
50	Multilayer mirrored bubbles with spatially-chirped and elastically-tuneable optical bandgaps. <i>Optics Express</i> , 2012 , 20, 6421-8	3.3	7
49	Nacre-inspired Hard and Tough Materials. <i>Chimia</i> , 2019 , 73, 29-34	1.3	6
48	Thermal oxidation of amorphous germanium thin films on SiO ₂ substrates. <i>Semiconductor Science and Technology</i> , 2016 , 31, 125017	1.8	6
47	Halogen-bond driven self-assembly of perfluorocarbon monolayers on silicon nitride. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24445-24453	1.3	6
46	Force measurements using capillary instabilities. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 3395-3405	2.6	5
45	Nuclear reaction analysis: A study on the interface formation in polymer mixtures below the critical point. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991 , 45, 283-288		5
44	Comparing Percolation and Alignment of Cellulose Nanocrystals for the Reinforcement of Polyurethane Nanocomposites.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	5
43	Shaping Perovskites: Crystallization Mechanism of Rapid Thermally Annealed, Prepatterned Perovskite Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6854-6863	9.5	5
42	Multiscale in modelling and validation for solar photovoltaics. <i>EPJ Photovoltaics</i> , 2018 , 9, 10	0.7	5
41	Photonic Particles Made by the Confined Self-Assembly of a Supramolecular Comb-Like Block Copolymer. <i>Macromolecular Rapid Communications</i> , 2021 , e2100522	4.8	5
40	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. <i>RSC Advances</i> , 2015 , 5, 22499-22502	3.7	4
39	Gyroid-Structured Electrodes for Electrochromic and Supercapacitor Applications 2015 , 311-336		4

38	Intrinsic viscoelasticity in thin high-molecular-weight polymer films. <i>Physical Review E</i> , 2014 , 89, 062604	2.4	4
37	Epitaxial growth of solution deposited $\text{Bi}_{1-x}\text{Sr}_x\text{CaCuO}_x$ films. <i>European Physical Journal B</i> , 2004 , 39, 149-154	1.2	4
36	Polymer-templated mesoporous lithium titanate microspheres for high-performance lithium batteries. <i>Materials Advances</i> , 2022 , 3, 362-372	3.3	4
35	Structural Diversity with Varying Disorder Enables the Multicolored Display in the Longhorn Beetle <i>Sulawesiella raphaelae</i> . <i>Science</i> , 2020 , 23, 101339	6.1	4
34	Determining the complex Jones matrix elements of a chiral 3D optical metamaterial. <i>APL Photonics</i> , 2019 , 4, 126107	5.2	4
33	When Black and White make Green: the Surprising Interplay of Structure and Pigments. <i>Chimia</i> , 2019 , 73, 47-50	1.3	3
32	Spectrally resolved surface plasmon resonance dispersion using half-ball optics. <i>Applied Physics Letters</i> , 2017 , 111, 201102	3.4	3
31	Response to Comment on "Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators". <i>Science</i> , 2009 , 325, 1072-1072	33.3	3
30	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells 2011 ,		3
29	Epitaxial growth of solution deposited $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. <i>European Physical Journal B</i> , 2004 , 42, 483	1.2	3
28	Short-time dynamics of polymer diffusion across an interface 1993 , 93-96		3
27	Electrospinning of Cellulose Nanocrystal-Reinforced Polyurethane Fibrous Mats. <i>Polymers</i> , 2020 , 12,	4.5	3
26	Surface Segregation and Wetting from Polymer Mixtures 1994 , 313-322		3
25	Chapter 17:Bio-mimetic Structural Colour using Biopolymers. <i>RSC Polymer Chemistry Series</i> , 2016 , 555-585		3
24	Carbon-Assisted Stable Silver Nanostructures. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001227	4.6	3
23	Hyperbolic Optical Metamaterials from Shear-Aligned Block Copolymer Cylinder Arrays. <i>Advanced Photonics Research</i> , 2020 , 1, 2000037	1.9	3
22	Distributed Bragg reflectors from colloidal trilayer flake solutions. <i>APL Photonics</i> , 2021 , 6, 026104	5.2	3
21	Visualization of energy: light dose indicator based on electrochromic gyroid nano-materials. <i>Nanotechnology</i> , 2015 , 26, 225501	3.4	2

20	Mesoporous Bragg reflectors: block-copolymer self-assembly leads to building blocks with well defined continuous pores and high control over optical properties 2011 ,		2
19	Self-organized organic nanostructures: structure formation in thin polymer blend films. <i>Surface and Interface Analysis</i> , 2004 , 36, 195-196	1.5	2
18	Nuclear Reaction Analysis Studies on the Interface Formation in Polymer Mixtures. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 177, 367		2
17	Solar Cells: Ionic Liquid Control Crystal Growth to Enhance Planar Perovskite Solar Cells Efficiency (Adv. Energy Mater. 20/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	1
16	Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings 2014 ,		1
15	Reply to Roberts et al.: Reflectivity and pointillist structural color on land and in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E3388-E3388	11.5	1
14	Diffusion Limited Wetting. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 464, 121		1
13	Insect Antiadhesive Surfaces Using Electrosprayed Wrinkled Ethyl Cellulose Particles. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9232-9238	9.5	1
12	One-Step Solvent-Free Mechanochemical Incorporation of Insoluble Cesium Salt into Perovskites for Wide Band-Gap Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 3971-3979	9.6	1
11	Diffusive structural colour in. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	1
10	Enhancing the Refractive Index of Polymers with a Plant-Based Pigment. <i>Small</i> , 2021 , 17, e2103061	11	1
9	Pachyrhynchus Weevils Use 3D Photonic Crystals with Varying Degrees of Order to Create Diverse and Brilliant Displays.. <i>Small</i> , 2022 , e2200592	11	1
8	Host-guest complexation in hybrid perovskite optoelectronics. <i>JPhys Materials</i> , 2021 , 4, 042011	4.2	0
7	Photonic Structures in Plants. <i>Series in Optics and Optoelectronics</i> , 2012 , 1-18		0
6	Spherical indentation response of a Ni double gyroid nanolattice. <i>Scripta Materialia</i> , 2020 , 188, 64-68	5.6	0
5	Hierarchical Electrohydrodynamic Structures for Surface-Enhanced Raman Scattering (Adv. Mater. 23/2012). <i>Advanced Materials</i> , 2012 , 24, OP174-OP174	24	
4	Wetting from Mixtures of Flexible Chains. <i>NATO ASI Series Series B: Physics</i> , 1994 , 133-136		
3	Adsorption and Wetting from Tunable Polyolefin Mixtures 1997 , 81-94		

2 Electrochemical Replication of Self-Assembled Block Copolymer Nanostructures **2011**, 63-116

1 Bio-inspired optics: general discussion. *Faraday Discussions*, **2020**, 223, 183-194

3.6