

Kevin G Yager

List of Publications by Year in descending order

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Version: 2024-02-01

162
papers

7,866
citations

44069

48
h-index

56724

83
g-index

170
all docs

170
docs citations

170
times ranked

9797
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of Interface Cleaning in Heterostructures Made from Polymer-Contaminated Graphene. <i>Small</i> , 2022, 18, e2201248.	10.0	6
2	Alignment frustration in block copolymer films with block copolymer grafted TiO_2 nanoparticles under soft-shear cold zone annealing. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2052-2060.	3.2	6
3	Interactive Visual Study of Multiple Attributes Learning Model of X-Ray Scattering Images. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 1312-1321.	4.4	5
4	Stable Thermotropic 3D and 2D Double Gyroid Nanostructures with Sub-20 nm Feature Size from Scalable Sugar-Polyolefin Conjugates. <i>Angewandte Chemie</i> , 2021, 133, 8792-8798.	2.0	7
5	Stable Thermotropic 3D and 2D Double Gyroid Nanostructures with Sub-20 nm Feature Size from Scalable Sugar-Polyolefin Conjugates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8710-8716.	13.8	24
6	Resilient three-dimensional ordered architectures assembled from nanoparticles by DNA. <i>Science Advances</i> , 2021, 7, .	10.3	45
7	Molecular Weight Dependence of Block Copolymer Micelle Fragmentation Kinetics. <i>Journal of the American Chemical Society</i> , 2021, 143, 7748-7758.	13.7	13
8	Gaussian processes for autonomous data acquisition at large-scale synchrotron and neutron facilities. <i>Nature Reviews Physics</i> , 2021, 3, 685-697.	26.6	44
9	Film Thickness and Composition Effects in Symmetric Ternary Block Copolymer/Homopolymer Blend Films: Domain Spacing and Orientation. <i>Macromolecules</i> , 2021, 54, 7970-7986.	4.8	12
10	Co-design Center for Exascale Machine Learning Technologies (ExaLearn). <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 598-616.	3.7	6
11	Photothermally Directed Assembly of Block Copolymers. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901679.	3.7	19
12	Autonomous materials discovery driven by Gaussian process regression with inhomogeneous measurement noise and anisotropic kernels. <i>Scientific Reports</i> , 2020, 10, 17663.	3.3	38
13	Edge States Drive Exciton Dissociation in Ruddlesden-Popper Lead Halide Perovskite Thin Films. , 2020, 2, 1360-1367.		20
14	Direct Observation of Micelle Fragmentation via In Situ Liquid-Phase Transmission Electron Microscopy. <i>ACS Macro Letters</i> , 2020, 9, 756-761.	4.8	29
15	Future trends in synchrotron science at NSLS-II. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 374008.	1.8	7
16	Vertical Lamellae Formed by Two-Step Annealing of a Rod-Coil Liquid Crystalline Block Copolymer Thin Film. <i>ACS Nano</i> , 2020, 14, 4289-4297.	14.6	17
17	Multimodal Synchrotron Approach: Research Needs and Scientific Vision. <i>Synchrotron Radiation News</i> , 2020, 33, 44-47.	0.8	3
18	Ordered three-dimensional nanomaterials using DNA-prescribed and valence-controlled material voxels. <i>Nature Materials</i> , 2020, 19, 789-796.	27.5	172

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19	Wet Brush Homopolymers as “Smart Solvents” for Rapid, Large Period Block Copolymer Thin Film Self-Assembly. <i>Macromolecules</i> , 2020, 53, 1098-1113.	4.8	24
20	Electrospray deposition tool: Creating compositionally gradient libraries of nanomaterials. <i>Review of Scientific Instruments</i> , 2020, 91, 013701.	1.3	15
21	Advances in Kriging-Based Autonomous X-Ray Scattering Experiments. <i>Scientific Reports</i> , 2020, 10, 1325.	3.3	28
22	Nanoconfinement and Salt Synergistically Suppress Crystallization in Polyethylene Oxide. <i>Macromolecules</i> , 2020, 53, 1494-1501.	4.8	8
23	High-throughput morphology mapping of self-assembling ternary polymer blends. <i>RSC Advances</i> , 2020, 10, 42529-42541.	3.6	9
24	Multi-Modal Synchrotron Characterization: Modern Techniques and Data Analysis. , 2020, , 39-64.		4
25	Visual Analytics for Scientific Data in NSLS-II. , 2020, , 159-168.		0
26	Strain rate dependent nanostructure of hydrogels with reversible hydrophobic associations during uniaxial extension. <i>Soft Matter</i> , 2019, 15, 227-236.	2.7	15
27	A Kriging-Based Approach to Autonomous Experimentation with Applications to X-Ray Scattering. <i>Scientific Reports</i> , 2019, 9, 11809.	3.3	72
28	Aligned Morphologies in Near-Edge Regions of Block Copolymer Thin Films. <i>Macromolecules</i> , 2019, 52, 7224-7233.	4.8	11
29	Self-assembly of a silicon-containing side-chain liquid crystalline block copolymer in bulk and in thin films: kinetic pathway of a cylinder to sphere transition. <i>Nanoscale</i> , 2019, 11, 285-293.	5.6	18
30	Unusual packing of soft-shelled nanocubes. <i>Science Advances</i> , 2019, 5, eaaw2399.	10.3	50
31	Instrumentation for <i>In situ/Operando</i> X-ray Scattering Studies of Polymer Additive Manufacturing Processes. <i>Synchrotron Radiation News</i> , 2019, 32, 20-27.	0.8	22
32	In Situ Study of ABC Triblock Terpolymer Self-Assembly under Solvent Vapor Annealing. <i>Macromolecules</i> , 2019, 52, 1853-1863.	4.8	19
33	Experiments and Simulations Probing Local Domain Bulge and String Assembly of Aligned Nanoplates in a Lamellar Diblock Copolymer. <i>Macromolecules</i> , 2019, 52, 8989-8999.	4.8	14
34	Dendrimer Ligand Directed Nanoplate Assembly. <i>ACS Nano</i> , 2019, 13, 14241-14251.	14.6	22
35	Nanoscale viscosity of confined polyethylene oxide. <i>Physical Review E</i> , 2019, 100, 062503.	2.1	3
36	Thin Film Self-Assembly of a Silicon-Containing Rod-Coil Liquid Crystalline Block Copolymer. <i>Macromolecules</i> , 2019, 52, 679-689.	4.8	26

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37	Sandwich layering in binary nanoparticle films and effect of size ratio on stratification behavior. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 209-217.	9.4	20
38	Pathway-engineering for highly-aligned block copolymer arrays. <i>Nanoscale</i> , 2018, 10, 416-427.	5.6	28
39	In-Operando Tracking and Prediction of Transition in Material System using LSTM. , 2018, , .		3
40	Thickness-Dependent Ordering Kinetics in Cylindrical Block Copolymer/Homopolymer Ternary Blends. <i>Macromolecules</i> , 2018, 51, 10259-10270.	4.8	29
41	Application of Analysis on the Wire to Streaming NSLS-II Beamline Data. , 2018, , .		1
42	Improved Anisotropic Thermoelectric Behavior of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) via Magnetophoresis. <i>ACS Omega</i> , 2018, 3, 12554-12561.	3.5	8
43	Network-Stabilized Bulk Heterojunction Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 8314-8321.	6.7	26
44	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. <i>Macromolecules</i> , 2018, 51, 4213-4219.	4.8	12
45	Double-Layer Morphologies from a Silicon-Containing ABA Triblock Copolymer. <i>ACS Nano</i> , 2018, 12, 6193-6202.	14.6	23
46	<i>Xi-cam</i> : a versatile interface for data visualization and analysis. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1261-1270.	2.4	89
47	X-Ray scattering and physicochemical studies of trialkylamine/carboxylic acid mixtures: nanoscale structure in pseudoprotic ionic liquids and related solutions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18639-18646.	2.8	15
48	MultiSciView: Multivariate Scientific X-ray Image Visual Exploration with Cross-Data Space Views. <i>Visual Informatics</i> , 2018, 2, 14-25.	4.4	3
49	Evidence of Stratification in Binary Colloidal Films from Microbeam X-ray Scattering: Toward Optimizing the Evaporative Assembly Processes for Coatings. <i>ACS Applied Nano Materials</i> , 2018, 1, 4211-4217.	5.0	21
50	Templated Self-Assembly of a PS- <i>Branch</i> -PDMS Bottlebrush Copolymer. <i>Nano Letters</i> , 2018, 18, 4360-4369.	9.1	54
51	Inverse Temperature Dependence of Charge Carrier Hopping in Quantum Dot Solids. <i>ACS Nano</i> , 2018, 12, 7741-7749.	14.6	33
52	Unwarping GISAXS data. <i>IUCr</i> , 2018, 5, 737-752.	2.2	13
53	Operando Grazing Incidence Small-Angle X-ray Scattering/X-ray Diffraction of Model Ordered Mesoporous Lithium-Ion Battery Anodes. <i>ACS Nano</i> , 2017, 11, 1443-1454.	14.6	42
54	Aberration-Corrected Electron Beam Lithography at the One Nanometer Length Scale. <i>Nano Letters</i> , 2017, 17, 4562-4567.	9.1	80

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55	X-Ray Scattering Image Classification Using Deep Learning. , 2017, , .		23
56	Thickness-dependence of block copolymer coarsening kinetics. <i>Soft Matter</i> , 2017, 13, 3275-3283.	2.7	29
57	Implications of Grain Size Variation in Magnetic Field Alignment of Block Copolymer Blends. <i>ACS Macro Letters</i> , 2017, 6, 404-409.	4.8	17
58	Injectable Anisotropic Nanocomposite Hydrogels Direct in Situ Growth and Alignment of Myotubes. <i>Nano Letters</i> , 2017, 17, 6487-6495.	9.1	111
59	Beyond native block copolymer morphologies. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 518-538.	3.4	62
60	Rapid assessment of crystal orientation in semi-crystalline polymer films using rotational zone annealing and impact of orientation on mechanical properties. <i>Soft Matter</i> , 2017, 13, 7074-7084.	2.7	5
61	Rapid Ordering in "Wet Brush" Block Copolymer/Homopolymer Ternary Blends. <i>ACS Nano</i> , 2017, 11, 12326-12336.	14.6	40
62	Through-Thickness Vertically Ordered Lamellar Block Copolymer Thin Films on Unmodified Quartz with Cold Zone Annealing. <i>Nano Letters</i> , 2017, 17, 7814-7823.	9.1	18
63	Robust and scalable deep learning for X-ray synchrotron image analysis. , 2017, , .		3
64	Coherent amplification of X-ray scattering from meso-structures. <i>IUCrJ</i> , 2017, 4, 604-613.	2.2	3
65	Robust X-ray angular correlations for the study of meso-structures. <i>Journal of Applied Crystallography</i> , 2017, 50, 805-819.	4.5	7
66	Healing X-ray scattering images. <i>IUCrJ</i> , 2017, 4, 455-465.	2.2	9
67	Laser-directed self-assembly of block copolymers investigated with synchrotron GISAXS. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, a82-a82.	0.1	0
68	Deep learning for analysing synchrotron data streams. , 2016, , .		6
69	Non-native three-dimensional block copolymer morphologies. <i>Nature Communications</i> , 2016, 7, 13988.	12.8	77
70	Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10%. <i>Advanced Energy Materials</i> , 2016, 6, 1600660.	19.5	46
71	Rapid ordering of block copolymer thin films. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 403002.	1.8	80
72	Cooperative Ordering and Kinetics of Cellulose Nanocrystal Alignment in a Magnetic Field. <i>Langmuir</i> , 2016, 32, 7564-7571.	3.5	119

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73	Solar Cells: Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10% (Adv. Energy Mater. 21/2016). Advanced Energy Materials, 2016, 6, .	19.5	1
74	Selective directed self-assembly of coexisting morphologies using block copolymer blends. Nature Communications, 2016, 7, 12366.	12.8	51
75	Ordering Pathway of Block Copolymers under Dynamic Thermal Gradients Studied by <i>in Situ</i> GISAXS. Macromolecules, 2016, 49, 8633-8642.	4.8	34
76	Vertically grown nanowire crystals of dibenzotetrathienocoronene (DBTTC) on large-area graphene. RSC Advances, 2016, 6, 59582-59589.	3.6	6
77	Reordering transitions during annealing of block copolymer cylinder phases. Soft Matter, 2016, 12, 281-294.	2.7	46
78	Diamond family of nanoparticle superlattices. Science, 2016, 351, 582-586.	12.6	331
79	Directed Self-Assembly of Block Copolymers for High Breakdown Strength Polymer Film Capacitors. ACS Applied Materials & Interfaces, 2016, 8, 7966-7976.	8.0	65
80	Magnetic Alignment of Block Copolymer Microdomains by Intrinsic Chain Anisotropy. Physical Review Letters, 2015, 115, 258302.	7.8	51
81	Linking Group Influences Charge Separation and Recombination in All-Conjugated Block Copolymer Photovoltaics. Advanced Functional Materials, 2015, 25, 5578-5585.	14.9	38
82	Molecular Orientation and Performance of Nanoimprinted Polymer-Based Blend Thin Film Solar Cells. Chemistry of Materials, 2015, 27, 60-66.	6.7	23
83	Thermally-induced transition of lamellae orientation in block-copolymer films on neutral nanoparticle-coated substrates. Soft Matter, 2015, 11, 5154-5167.	2.7	25
84	<i>In Situ</i> Characterization of the Self-Assembly of a Polystyrene-Polydimethylsiloxane Block Copolymer during Solvent Vapor Annealing. Macromolecules, 2015, 48, 8574-8584.	4.8	45
85	Addressing fundamental architectural challenges of an activity-based intelligence and advanced analytics (ABIAA) system. Proceedings of SPIE, 2015, , .	0.8	0
86	Latent Alignment in Pathway-Dependent Ordering of Block Copolymer Thin Films. Nano Letters, 2015, 15, 5221-5228.	9.1	49
87	Block Copolymer Response to Photothermal Stress Fields. Macromolecules, 2015, 48, 4591-4598.	4.8	34
88	Superlattices assembled through shape-induced directional binding. Nature Communications, 2015, 6, 6912.	12.8	188
89	Arbitrary lattice symmetries via block copolymer nanomeshes. Nature Communications, 2015, 6, 7448.	12.8	116
90	Millisecond Ordering of Block Copolymer Films <i>via</i> Photothermal Gradients. ACS Nano, 2015, 9, 3896-3906.	14.6	112

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91	Molecular Origin of Photovoltaic Performance in Donor-Acceptor All-Conjugated Block Copolymers. <i>Macromolecules</i> , 2015, 48, 8346-8353.	4.8	41
92	Self-Organization of Quantum Rods Induced by Lipid Membrane Corrugations. <i>Langmuir</i> , 2015, 31, 12148-12154.	3.5	10
93	In Situ Method for Measuring the Mechanical Properties of Nafion Thin Films during Hydration Cycles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17874-17883.	8.0	43
94	Interparticle Spacing and Structural Ordering in Superlattice PbS Nanocrystal Solids Undergoing Ligand Exchange. <i>Chemistry of Materials</i> , 2015, 27, 474-482.	6.7	111
95	Highly Crystalline Films of PCPDTBT with Branched Side Chains by Solvent Vapor Crystallization: Influence on Optoelectronic Properties. <i>Advanced Materials</i> , 2015, 27, 1223-1228.	21.0	51
96	Nano-structuring polymer/fullerene composites through the interplay of conjugated polymer crystallization, block copolymer self-assembly and complementary hydrogen bonding interactions. <i>Polymer Chemistry</i> , 2015, 6, 721-731.	3.9	30
97	"Liquid Interfacial Self-Assembly of Conjugated Block Copolymers into Ordered Nanowire Arrays. <i>ACS Nano</i> , 2014, 8, 12755-12762.	14.6	55
98	Diffusion-based clustering analysis of coherent X-ray scattering patterns of self-assembled nanoparticles. , 2014, , .		2
99	Strongly Correlated Alignment of Fluorinated 5,11-Bis(triethylgermylethynyl)anthradithiophene Crystallites in Solution-Processed Field-Effect Transistors. <i>ChemPhysChem</i> , 2014, 15, 2913-2916.	2.1	16
100	Metrics of graininess: robust quantification of grain count from the non-uniformity of scattering rings. <i>Journal of Applied Crystallography</i> , 2014, 47, 1855-1865.	4.5	11
101	Conjugated block copolymers via functionalized initiators and click chemistry. <i>Journal of Polymer Science Part A</i> , 2014, 52, 154-163.	2.3	12
102	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for High-Performance Organic Electronics. <i>Advanced Materials</i> , 2014, 26, 2812-2817.	21.0	120
103	Mesoporous Carbon-Vanadium Oxide Films by Resol-Assisted, Triblock Copolymer-Templated Cooperative Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19288-19298.	8.0	15
104	Suppression of target patterns in domain aligned cold-zone annealed block copolymer films with immobilized film-spanning nanoparticles. <i>Soft Matter</i> , 2014, 10, 3656.	2.7	6
105	X-ray scattering as a liquid and solid phase probe of ordering within sub-monolayers of iron oxide nanoparticles fabricated by electrophoretic deposition. <i>Nanoscale</i> , 2014, 6, 4047.	5.6	8
106	Materials discovery: Fine-grained classification of X-ray scattering images. , 2014, , .		11
107	Lamellar and liquid crystal ordering in solvent-annealed all-conjugated block copolymers. <i>Soft Matter</i> , 2014, 10, 3817-3825.	2.7	39
108	Stable and Controllable Polymer/Fullerene Composite Nanofibers through Cooperative Noncovalent Interactions for Organic Photovoltaics. <i>Chemistry of Materials</i> , 2014, 26, 3747-3756.	6.7	51

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109	Nanostructured Surfaces Frustrate Polymer Semiconductor Molecular Orientation. ACS Nano, 2014, 8, 243-249.	14.6	53
110	Self-Assembled Phases of Block Copolymer Blend Thin Films. ACS Nano, 2014, 8, 10582-10588.	14.6	39
111	Control of all- π -conjugated block copolymer crystallization via thermal and solvent annealing. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 900-906.	2.1	10
112	Two-Dimensional DNA-Programmable Assembly of Nanoparticles at Liquid Interfaces. Journal of the American Chemical Society, 2014, 136, 8323-8332.	13.7	73
113	Periodic lattices of arbitrary nano-objects: modeling and applications for self-assembled systems. Journal of Applied Crystallography, 2014, 47, 118-129.	4.5	45
114	A general strategy for the DNA-mediated self-assembly of functional nanoparticles into heterogeneous systems. Nature Nanotechnology, 2013, 8, 865-872.	31.5	267
115	Complementary Hydrogen Bonding and Block Copolymer Self-Assembly in Cooperation toward Stable Solar Cells with Tunable Morphologies. Macromolecules, 2013, 46, 9021-9031.	4.8	53
116	Facile control of long range orientation in mesoporous carbon films with thermal zone annealing velocity. Nanoscale, 2013, 5, 12440.	5.6	21
117	Grazing-incidence transmission X-ray scattering: surface scattering in the Born approximation. Journal of Applied Crystallography, 2013, 46, 165-172.	4.5	45
118	Linear Mesostuctures in DNA- π -Nanorod Self-Assembly. ACS Nano, 2013, 7, 5437-5445.	14.6	72
119	Large-Scale Roll-to-Roll Fabrication of Vertically Oriented Block Copolymer Thin Films. ACS Nano, 2013, 7, 5291-5299.	14.6	55
120	Surface-Induced Nanostructure and Water Transport of Thin Proton-Conducting Polymer Films. Macromolecules, 2013, 46, 5630-5637.	4.8	41
121	Self-assembly of single dielectric nanoparticle layers and integration in polymer-based solar cells. Applied Physics Letters, 2012, 101, 063105.	3.3	16
122	Photo-Mechanical Azo Polymers for Light-Powered Actuation and Artificial Muscles. , 2012, , 107-151.		0
123	Combinatorial Block Copolymer Ordering on Tunable Rough Substrates. Macromolecules, 2012, 45, 4303-4314.	4.8	19
124	Tuning Molecular Relaxation for Vertical Orientation in Cylindrical Block Copolymer Films via Sharp Dynamic Zone Annealing. Macromolecules, 2012, 45, 7107-7117.	4.8	78
125	Effect of Confinement on Structure, Water Solubility, and Water Transport in Nafion Thin Films. Macromolecules, 2012, 45, 7920-7930.	4.8	172
126	One-Volt Operation of High-Current Vertical Channel Polymer Semiconductor Field-Effect Transistors. Nano Letters, 2012, 12, 4181-4186.	9.1	36

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127	Wide angle x-ray diffraction studies of nanocrystalline lead europium sulfide. <i>Materials Letters</i> , 2012, 89, 198-201.	2.6	2
128	Implementing nanometer-scale confinement in organic semiconductor bulk heterojunction solar cells. <i>Journal of Photonics for Energy</i> , 2012, 2, 021008.	1.3	2
129	Dynamic Thermal Field-Induced Gradient Soft-Shear for Highly Oriented Block Copolymer Thin Films. <i>ACS Nano</i> , 2012, 6, 10335-10342.	14.6	124
130	Reticulated Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2012, 22, 1167-1173.	14.9	13
131	A Supramolecular Complex in Small-Molecule Solar Cells based on Contorted Aromatic Molecules. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8594-8597.	13.8	82
132	Azobenzene photomechanics: prospects and potential applications. <i>Polymer Bulletin</i> , 2012, 69, 967-1006.	3.3	339
133	A Modern Instantiation of Schillinger's Dance Notation: Choreographing with Mouse, iPad, KBow, and Kinect. <i>Contemporary Music Review</i> , 2011, 30, 179-186.	0.3	1
134	Nanoimprint-Induced Molecular Orientation in Semiconducting Polymer Nanostructures. <i>ACS Nano</i> , 2011, 5, 7532-7538.	14.6	117
135	Molecular Dynamics Study of the Role of the Free Surface on Block Copolymer Thin Film Morphology and Alignment. <i>ACS Nano</i> , 2011, 5, 2895-2907.	14.6	36
136	Anomalous Large Polarization Effect Responsible for Excitonic Red Shifts in PbSe Quantum Dot Solids. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 795-800.	4.6	72
137	Enhanced charge collection in confined bulk heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2011, 99, 163301.	3.3	27
138	Solvent Retention in Thin Spin-Coated Polystyrene and Poly(methyl methacrylate) Homopolymer Films Studied By Neutron Reflectometry. <i>Macromolecules</i> , 2010, 43, 1117-1123.	4.8	48
139	Challenges in Fabrication of Mesoporous Carbon Films with Ordered Cylindrical Pores <i>via</i> Phenolic Oligomer Self-Assembly with Triblock Copolymers. <i>ACS Nano</i> , 2010, 4, 189-198.	14.6	90
140	Thermally Reversible Surface Morphology Transition in Thin Diblock Copolymer Films. <i>ACS Nano</i> , 2010, 4, 3653-3660.	14.6	13
141	Excited-State Processes in Slow Motion: An Experiment in the Undergraduate Laboratory. <i>Journal of Chemical Education</i> , 2010, 87, 1252-1256.	2.3	2
142	Evolution of block-copolymer order through a moving thermal zone. <i>Soft Matter</i> , 2010, 6, 92-99.	2.7	65
143	Robust conductive mesoporous carbon-silica composite films with highly ordered and oriented orthorhombic structures from triblock-copolymer template co-assembly. <i>Journal of Materials Chemistry</i> , 2010, 20, 1691.	6.7	55
144	Target Patterns Induced by Fixed Nanoparticles in Block Copolymer Films. <i>ACS Nano</i> , 2009, 3, 2115-2120.	14.6	21

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145	Disordered nanoparticle interfaces for directed self-assembly. <i>Soft Matter</i> , 2009, 5, 622-628.	2.7	35
146	Surface Morphology Diagram for Cylinder-Forming Block Copolymer Thin Films. <i>ACS Nano</i> , 2008, 2, 2331-2341.	14.6	82
147	Ion distribution in multilayers of weak polyelectrolytes: A neutron reflectometry study. <i>Journal of Chemical Physics</i> , 2008, 129, 084901.	3.0	32
148	Confinement of surface patterning in azo-polymer thin films. <i>Journal of Chemical Physics</i> , 2007, 126, 094908.	3.0	27
149	Chapter 17. Azobenzene Polymers as Photomechanical and Multifunctional Smart Materials. , 2007, , 424-446.		9
150	Each co-author should sign to reduce risk of fraud. <i>Nature</i> , 2007, 450, 610-610.	27.8	1
151	Photo-mechanical effects in azobenzene-containing soft materials. <i>Soft Matter</i> , 2007, 3, 1249.	2.7	512
152	Photomechanical Surface Patterning in Azo-Polymer Materials. <i>Macromolecules</i> , 2006, 39, 9320-9326.	4.8	107
153	Water Distribution in Multilayers of Weak Polyelectrolytes. <i>Langmuir</i> , 2006, 22, 5137-5143.	3.5	50
154	Photomechanical Effects in Azo-Polymers Studied by Neutron Reflectometry. <i>Macromolecules</i> , 2006, 39, 9311-9319.	4.8	92
155	Wiki ware could harness the Internet for science. <i>Nature</i> , 2006, 440, 278-278.	27.8	10
156	Novel photo-switching using azobenzene functional materials. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 182, 250-261.	3.9	485
157	Temperature-controlled neutron reflectometry sample cell suitable for study of photoactive thin films. <i>Review of Scientific Instruments</i> , 2006, 77, 045106.	1.3	9
158	Variable temperature, relative humidity (0%â€“100%), and liquid neutron reflectometry sample cell suitable for polymeric and biomimetic materials. <i>Review of Scientific Instruments</i> , 2005, 76, 065101.	1.3	26
159	Temperature modeling of laser-irradiated azo-polymer thin films. <i>Journal of Chemical Physics</i> , 2004, 120, 1089-1096.	3.0	89
160	Thin films of light-responsive polymers for sensing and surface patterning. , 2003, , .		0
161	All-optical patterning of azo polymer films. <i>Current Opinion in Solid State and Materials Science</i> , 2001, 5, 487-494.	11.5	213
162	Amorphous Azobenzene Polymers for Light-Induced Surface Patterning. , 0, , 145-175.		5