

Bryan D Vogt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8098796/publications.pdf>

Version: 2024-02-01

207
papers

6,489
citations

66234

42
h-index

95083

68
g-index

208
all docs

208
docs citations

208
times ranked

8506
citing authors

#	ARTICLE	IF	CITATIONS
1	Size and print path effects on mechanical properties of material extrusion 3D printed plastics. Progress in Additive Manufacturing, 2022, 7, 1009-1021.	2.5	16
2	Patterned Hydrophilic Patches on Slippery Surfaces with Anticounterfeit Applications. ACS Applied Polymer Materials, 2022, 4, 100-110.	2.0	6
3	Delayed Swelling and Dissolution of Hydrophobically Associated Hydrogel Coatings by Dilute Aqueous Surfactants. ACS Applied Polymer Materials, 2022, 4, 250-259.	2.0	3
4	Influence of the Nature of Aliphatic Hydrophobic Physical Crosslinks on Water Crystallization in Copolymer Hydrogels. Journal of Physical Chemistry B, 2022, 126, 5544-5554.	1.2	1
5	Ultrafast microwave-assisted synthesis of highly nitrogen-doped ordered mesoporous carbon. Microporous and Mesoporous Materials, 2021, 310, 110639.	2.2	16
6	4D printed shape memory metamaterial for vibration bandgap switching and active elastic-wave guiding. Journal of Materials Chemistry C, 2021, 9, 1164-1173.	2.7	29
7	Water dynamics within nanostructured amphiphilic statistical copolymers from quasielastic neutron scattering. Journal of Chemical Physics, 2021, 154, 154903.	1.2	3
8	Enhanced Dimensional Accuracy of Material Extrusion 3D-Printed Plastics through Filament Architecture. ACS Applied Polymer Materials, 2021, 3, 2518-2528.	2.0	14
9	Why is Recycling of Postconsumer Plastics so Challenging?. ACS Applied Polymer Materials, 2021, 3, 4325-4346.	2.0	120
10	Microwave-Enabled Size Control of Iron Oxide Nanoparticles on Reduced Graphene Oxide. Langmuir, 2021, 37, 11131-11141.	1.6	5
11	Gaussian Process Monitoring of Layerwise-Dependent Imaging Data. IEEE Robotics and Automation Letters, 2021, 6, 8029-8036.	3.3	9
12	Controlling nanostructure and mechanical properties in triblock copolymer/monomer blends via reaction-induced phase transitions. Soft Matter, 2021, 17, 1505-1512.	1.2	8
13	Sodium dodecyl sulfate modulates the structure and rheological properties of Pluronic F108 - poly(acrylic acid) coacervates. Soft Matter, 2021, , .	1.2	0
14	Non-destructive determination of functionalized polyelectrolyte placement in layer-by-layer films by IR ellipsometry. Soft Matter, 2021, 17, 10527-10535.	1.2	1
15	Kinetically controlled morphology in copolymer-based hydrogels crosslinked by crystalline nanodomains determines efficacy of ice inhibition. Molecular Systems Design and Engineering, 2020, 5, 645-655.	1.7	6
16	Tuning Flexoelectric Effect in Polymer Electrolyte Membranes via Cation Selection for Potential Energy Harvesting Applications. ACS Applied Energy Materials, 2020, 3, 328-335.	2.5	12
17	A Virtual Special Issue on Self-Healing Materials. ACS Applied Materials & Interfaces, 2020, 12, 49277-49280.	4.0	13
18	A Virtual Issue of Applied Polymer Materials: "3D Printing of Polymers". ACS Applied Polymer Materials, 2020, 2, 2102-2104.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Aqueous polypropylene glycol induces swelling and severe plasticization of high T_g amphiphilic copolymers containing hexafluoroisopropanol groups. <i>Soft Matter</i> , 2020, 16, 6362-6370.	1.2	2
20	Mechanisms of Directional Polymer Crystallization. <i>ACS Macro Letters</i> , 2020, 9, 1007-1012.	2.3	11
21	Microwave Processing Controls the Morphology of Block Copolymer-Templated Mesoporous Cobalt Oxide Films. <i>Langmuir</i> , 2020, 36, 1288-1297.	1.6	3
22	Forum: Toughening of Networks and Gel Through Molecular Design. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1014-1015.	2.0	0
23	Hydrophobically Associating Hydrogels with Microphase-Separated Morphologies. <i>Advances in Polymer Science</i> , 2020, , 165-209.	0.4	2
24	Li-Ion Capacitor Integrated with Nano-network-Structured Ni/NiO/C Anode and Nitrogen-Doped Carbonized Metal-Organic Framework Cathode with High Power and Long Cyclability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30694-30702.	4.0	46
25	Manipulating the Mechanical Response of Hydrophobically Cross-Linked Hydrogels with Ionic Associations. <i>Macromolecules</i> , 2019, 52, 6055-6067.	2.2	14
26	Tuning Cooperative Assembly with Bottlebrush Block Co-polymers for Porous Metal Oxide Films Using Solvent Mixtures. <i>Langmuir</i> , 2019, 35, 9572-9583.	1.6	4
27	A high-performance lithium-ion capacitor with carbonized NiCo ₂ O ₄ anode and vertically-aligned carbon nanoflakes cathode. <i>Energy Storage Materials</i> , 2019, 22, 265-274.	9.5	55
28	Strain rate dependent nanostructure of hydrogels with reversible hydrophobic associations during uniaxial extension. <i>Soft Matter</i> , 2019, 15, 227-236.	1.2	15
29	Microwave Processed, Onionlike Carbon and Fluoropolymer Passivated Lithium Metal Electrode for Enhanced Li Stripping/Plating Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 7933-7941.	2.5	2
30	Control of Pore Size in Ordered Mesoporous Carbon-Silica by Hansen Solubility Parameters of Swelling Agent. <i>Langmuir</i> , 2019, 35, 14049-14059.	1.6	17
31	Dramatic Swelling of Copolymer Membrane Induced by Polyol-Based Antifoam Agent. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3048-3056.	2.0	3
32	Mechanically tunable, human mesenchymal stem cell viable poly(ethylene glycol)-oxime hydrogels with invariant precursor composition, concentration, and stoichiometry. <i>Materials Today Chemistry</i> , 2019, 11, 244-252.	1.7	11
33	Effect of adjacent hydrophilic polymer thin films on physical aging and residual stress in thin films of poly(butyl norbornene-co-hydroxyhexafluoroisopropyl norbornene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 992-1000.	2.4	4
34	Tunable Piezoresistivity from Magnetically Aligned Ni(Core)@Ag(Shell) Particles in an Elastomer Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20360-20369.	4.0	13
35	Polyelectrolyte-micelle coacervates: intrapolymer-dominant vs. interpolymer-dominant association, solute uptake and rheological properties. <i>Soft Matter</i> , 2019, 15, 3043-3054.	1.2	17
36	Influence of Sodium Salts on the Swelling and Rheology of Hydrophobically Cross-linked Hydrogels Determined by QCM-D. <i>Langmuir</i> , 2019, 35, 16612-16623.	1.6	10

#	ARTICLE	IF	CITATIONS
37	Antifreeze Hydrogels from Amphiphilic Statistical Copolymers. <i>Chemistry of Materials</i> , 2019, 31, 135-145.	3.2	39
38	Morphological control of hydrothermally synthesized cobalt oxide particles using poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	1.0	8
39	3D Printing with Core-Shell Filaments Containing High or Low Density Polyethylene Shells. <i>ACS Applied Polymer Materials</i> , 2019, 1, 275-285.	2.0	58
40	Quantitative Rheometry of Thin Soft Materials Using the Quartz Crystal Microbalance with Dissipation. <i>Analytical Chemistry</i> , 2018, 90, 4079-4088.	3.2	65
41	Enhanced Impact Resistance of Three-Dimensional-Printed Parts with Structured Filaments. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16087-16094.	4.0	41
42	Swelling and plasticization of polymeric binders by Li-containing carbonate electrolytes using quartz crystal microbalance with dissipation. <i>Polymer</i> , 2018, 143, 237-244.	1.8	23
43	Enhanced stability of smoothly electrodeposited amorphous Fe ₂ O ₃ @electrospun carbon nanofibers as self-standing anodes for lithium ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 1867-1878.	1.4	20
44	Thickness dependence of structural relaxation in spin-cast polynorbornene films with high glass transition temperatures (>613 K). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 53-61.	2.4	6
45	Mechanical and viscoelastic properties of confined amorphous polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 9-30.	2.4	64
46	Impact of surface wettability on dynamics of supercooled water confined in nitrogen-doped ordered mesoporous carbon. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28019-28025.	1.3	12
47	Nonlinear Mechano-Optical Behavior and Strain-Induced Structural Changes of Valine-Based Poly(ester urea)s. <i>Macromolecules</i> , 2018, 51, 8114-8126.	2.2	3
48	Self-assembled Mn ₃ O ₄ /C nanospheres as high-performance anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 395, 92-97.	4.0	26
49	Complex flow and temperature history during melt extrusion in material extrusion additive manufacturing. <i>Additive Manufacturing</i> , 2018, 22, 197-206.	1.7	69
50	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. <i>Macromolecules</i> , 2018, 51, 4213-4219.	2.2	12
51	Anomalous Confinement Slows Surface Fluctuations of Star Polymer Melt Films. <i>ACS Macro Letters</i> , 2018, 7, 834-839.	2.3	10
52	Sulfur Diffusion within Nitrogen-Doped Ordered Mesoporous Carbons Determined by in Situ X-ray Scattering. <i>Langmuir</i> , 2018, 34, 8767-8776.	1.6	13
53	Mechanical properties of bulk graphene oxide/poly(acrylic acid)/poly(ethylenimine) ternary polyelectrolyte complex. <i>Soft Matter</i> , 2018, 14, 4396-4403.	1.2	8
54	Renewable Nanocomposites for Additive Manufacturing Using Fused Filament Fabrication. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12393-12402.	3.2	17

#	ARTICLE	IF	CITATIONS
55	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.	7.3	42
56	A family of mechanically adaptive supramolecular graphene oxide/poly(ethylenimine) hydrogels from aqueous assembly. <i>Soft Matter</i> , 2017, 13, 1161-1170.	1.2	10
57	A binary metal organic framework derived hierarchical hollow Ni ₃ S ₂ /Co ₉ S ₈ /N-doped carbon composite with superior sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11781-11787.	5.2	110
58	Transport-Limited Adsorption of Plasma Proteins on Bimodal Amphiphilic Polymer Co-Networks: Real-Time Studies by Spectroscopic Ellipsometry. <i>Langmuir</i> , 2017, 33, 2900-2910.	1.6	12
59	Cooperatively assembled, nitrogen-doped, ordered mesoporous carbon/iron oxide nanocomposites for low-cost, long cycle life sodium-ion batteries. <i>Carbon</i> , 2017, 116, 286-293.	5.4	40
60	Nanostructure Evolution during Relaxation from a Large Step Strain in a Supramolecular Copolymer-Based Hydrogel: A SANS Investigation. <i>Macromolecules</i> , 2017, 50, 1672-1680.	2.2	27
61	Structural rearrangement and stiffening of hydrophobically modified supramolecular hydrogels during thermal annealing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1036-1044.	2.4	16
62	Partitioning of Small Molecules in Hydrogen-Bonding Complex Coacervates of Poly(acrylic acid) and Poly(ethylene glycol) or Pluronic Block Copolymer. <i>Macromolecules</i> , 2017, 50, 3818-3830.	2.2	37
63	High Efficiency and Facile Butanol Recovery with Magnetically Responsive Micro/Mesoporous Carbon Adsorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 885-894.	3.2	19
64	Enhanced Cycle Performance of Quinone-Based Anodes for Sodium Ion Batteries by Attachment to Ordered Mesoporous Carbon and Use of Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5093-H5099.	1.3	29
65	Ultra-long cycle life, low-cost room temperature sodium-sulfur batteries enabled by highly doped (N,S) nanoporous carbons. <i>Nano Energy</i> , 2017, 32, 59-66.	8.2	178
66	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.	1.2	5
67	Bimodal Porous Carbon-Silica Nanocomposites for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16702-16709.	1.5	19
68	Generalized Synthesis of a Family of Highly Heteroatom-Doped Ordered Mesoporous Carbons. <i>Chemistry of Materials</i> , 2017, 29, 10178-10186.	3.2	74
69	Solid state microwave synthesis of highly crystalline ordered mesoporous hausmannite Mn ₃ O ₄ films. <i>CrystEngComm</i> , 2017, 19, 4294-4303.	1.3	14
70	Influence of RAFT end-groups on the water swelling of poly(N-ε-propyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.4	2
71	Three-Dimensional Printed Shape Memory Objects Based on an Olefin Ionomer of Zinc-Neutralized Poly(ethylene-co- <i>i</i> -methacrylic acid). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27239-27249.	4.0	58
72	Hierarchical Electrospun and Cooperatively Assembled Nanoporous Ni/NiO/MnO _x /Carbon Nanofiber Composites for Lithium Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19484-19493.	4.0	36

#	ARTICLE	IF	CITATIONS
73	Modulation of the Mechanical Properties of Hydrophobically Modified Supramolecular Hydrogels by Surfactant-Driven Structural Rearrangement. <i>Macromolecules</i> , 2016, 49, 9228-9238.	2.2	21
74	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. <i>Acta Biomaterialia</i> , 2016, 40, 62-69.	4.1	74
75	Role of Amphiphilic Block Copolymer Composition on Pore Characteristics of Micelle-Templated Mesoporous Cobalt Oxide Films. <i>Langmuir</i> , 2016, 32, 4077-4085.	1.6	24
76	Role of salt on adhesion of an epoxy/aluminum (oxide) interface in aqueous environments. <i>Polymer Engineering and Science</i> , 2016, 56, 18-26.	1.5	6
77	Tough Stretchable Physically-Cross-linked Electrospun Hydrogel Fiber Mats. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22774-22779.	4.0	32
78	Accelerated Amidization of Branched Poly(ethylenimine)/Poly(acrylic acid) Multilayer Films by Microwave Heating. <i>Langmuir</i> , 2016, 32, 9118-9125.	1.6	14
79	A nitrogen doped carbonized metal-organic framework for high stability room temperature sodium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12471-12478.	5.2	153
80	Supramolecular Hydrophobic Aggregates in Hydrogels Partially Inhibit Ice Formation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5543-5552.	1.2	29
81	Evolution in surface morphology during rapid microwave annealing of PS- <i>b</i> -PMMA thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1499-1506.	2.4	12
82	Roll-to-roll fabrication of high surface area mesoporous carbon with process-tunable pore texture for optimization of adsorption capacity of bulky organic dyes. <i>Microporous and Mesoporous Materials</i> , 2016, 227, 57-64.	2.2	34
83	Contraction of weak polyelectrolyte multilayers in response to organic solvents. <i>Soft Matter</i> , 2016, 12, 1859-1867.	1.2	17
84	Control of Mesh Size and Modulus by Kinetically Dependent Cross-Linking in Hydrogels. <i>Advanced Materials</i> , 2015, 27, 6283-6288.	11.1	47
85	Facile lithographic route to highly aligned silica nanopatterns using unidirectionally aligned polystyrene- <i>b</i> -polydimethylsiloxane films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1058-1064.	2.4	11
86	Rapid (<3 min) microwave synthesis of block copolymer templated ordered mesoporous metal oxide and carbonate films using nitrate-citric acid systems. <i>Chemical Communications</i> , 2015, 51, 4997-5000.	2.2	15
87	Tuning SEI formation on nanoporous carbon-titania composite sodium ion batteries anodes and performance with subtle processing changes. <i>RSC Advances</i> , 2015, 5, 99329-99338.	1.7	23
88	Large-Scale Solvent Driven Actuation of Polyelectrolyte Multilayers Based on Modulation of Dynamic Secondary Interactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1848-1858.	4.0	37
89	Large-Scale Roll-to-Roll Fabrication of Ordered Mesoporous Materials using Resol-Assisted Cooperative Assembly. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4306-4310.	4.0	43
90	Understanding the Decreased Segmental Dynamics of Supported Thin Polymer Films Reported by Incoherent Neutron Scattering. <i>Macromolecules</i> , 2015, 48, 801-808.	2.2	53

#	ARTICLE	IF	CITATIONS
91	Mechanisms of criticality in environmental adhesion loss. <i>Soft Matter</i> , 2015, 11, 3994-4001.	1.2	23
92	Impact of Nanostructure on Mechanical Properties of Norbornene-based Block Copolymers under Simulated Operating Conditions for Biobutanol Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11765-11774.	4.0	12
93	Cooperative Assembly of Metal Nitrate and Citric Acid with Block Copolymers: Role of Carbonate Conversion Temperature on the Mesostructure of Ordered Porous Oxides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12138-12148.	1.5	11
94	Substrate Temperature to Control Moduli and Water Uptake in Thin Films of Vapor Deposited <i>N,N</i> -Di(1-naphthyl)- <i>N,N</i> -diphenyl-(1,1'-biphenyl)-4,4'-diamine (NPD). <i>Journal of Physical Chemistry B</i> , 2015, 119, 11928-11934.	1.2	13
95	Controlled Directional Crystallization of Oligothiophenes Using Zone Annealing of Preseeded Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23008-23014.	4.0	7
96	Direct Immersion Annealing of Thin Block Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21639-21645.	4.0	48
97	Nanoporous block copolymer films using highly selective solvents and non-solvent extraction. <i>Soft Matter</i> , 2015, 11, 8499-8507.	1.2	7
98	High rate sodium ion battery anodes from block copolymer templated mesoporous nickel-cobalt carbonates and oxides. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21060-21069.	5.2	23
99	Extending Dynamic Range of Block Copolymer Ordering with Rotational Cold Zone Annealing (RCZA) and Ionic Liquids. <i>Macromolecules</i> , 2015, 48, 7567-7573.	2.2	17
100	Highly aligned, large pore ordered mesoporous carbon films by solvent vapor annealing with soft shear. <i>Carbon</i> , 2015, 82, 51-59.	5.4	23
101	Structural Control in Block Copolymer-Templated Nanoporous Carbon Films. <i>ACS Symposium Series</i> , 2014, , 35-60.	0.5	0
102	Large area, flexible ordered mesoporous carbon films from soft templating on polymer substrates. <i>RSC Advances</i> , 2014, 4, 3669-3677.	1.7	7
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.	4.0	15
104	Fabrication of Porous Carbon/TiO ₂ Composites through Polymerization-Induced Phase Separation and Use As an Anode for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21011-21018.	4.0	77
105	Relationship between crosslinking and ordering kinetics for the fabrication of soft templated (FDU-16) mesoporous carbon thin films. <i>RSC Advances</i> , 2014, 4, 44858-44867.	1.7	18
106	A generalized method for alignment of block copolymer films: solvent vapor annealing with soft shear. <i>Soft Matter</i> , 2014, 10, 6068-6076.	1.2	58
107	Overcoming confinement limited swelling in hydrogel thin films using supramolecular interactions. <i>Soft Matter</i> , 2014, 10, 6705-6712.	1.2	21
108	Bicontinuous mesoporous carbon thin films via an order-order transition. <i>Chemical Communications</i> , 2014, 50, 12684-12687.	2.2	21

#	ARTICLE	IF	CITATIONS
109	Kinetics of UV Irradiation Induced Chain Scission and Cross-Linking of Coumarin-Containing Polyester Ultrathin Films. <i>Macromolecules</i> , 2014, 47, 2891-2898.	2.2	27
110	Nanoporous Nonwoven Fibril-Like Morphology by Cooperative Self-Assembly of Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.6	19
111	Unidirectional Alignment of Block Copolymer Films Induced by Expansion of a Permeable Elastomer during Solvent Vapor Annealing. <i>Macromolecules</i> , 2014, 47, 1109-1116.	2.2	76
112	Comparison of flocculated and dispersed single-wall carbon nanotube-based coatings using nonionic surfactants. <i>Polymer Engineering and Science</i> , 2013, 53, 69-77.	1.5	11
113	Morphology Control in Mesoporous Carbon Films Using Solvent Vapor Annealing. <i>Langmuir</i> , 2013, 29, 3428-3438.	1.6	23
114	Amperometric sensing of norepinephrine at picomolar concentrations using screen printed, high surface area mesoporous carbon. <i>Analytica Chimica Acta</i> , 2013, 788, 32-38.	2.6	26
115	Anisotropic Mechanical Properties of Aligned Polystyrene- <i>block</i> -polydimethylsiloxane Thin Films. <i>Macromolecules</i> , 2013, 46, 8608-8615.	2.2	27
116	Facile control of long range orientation in mesoporous carbon films with thermal zone annealing velocity. <i>Nanoscale</i> , 2013, 5, 12440.	2.8	21
117	Unidirectional self-assembly of soft templated mesoporous carbons by zone annealing. <i>Nanoscale</i> , 2013, 5, 7928.	2.8	27
118	Flocculated carbon nanotube composites for solvent resistant soft templated microfeatures. <i>Polymer</i> , 2013, 54, 1130-1135.	1.8	6
119	Simple replica micromolding of biocompatible styrenic elastomers. <i>Lab on A Chip</i> , 2013, 13, 2773.	3.1	54
120	Control of Ordering and Structure in Soft Templated Mesoporous Carbon Films by Use of Selective Solvent Additives. <i>Langmuir</i> , 2013, 29, 8703-8712.	1.6	20
121	Tunable Wrinkle and Crease Surface Morphologies from Photoinitiated Polymerization of Furfuryl Alcohol. <i>Langmuir</i> , 2013, 29, 15083-15089.	1.6	8
122	Comparison of wet and dry etching of zinc indium oxide for thin film transistors with an inverted gate structure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 011505.	0.9	4
123	Impact of Homopolymer Pore Expander on the Morphology of Mesoporous Carbon Films Using Organic Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6038-6046.	1.5	17
124	Mesoporous carbon amperometric glucose sensors using inexpensive, commercial methacrylate-based binders. <i>Analytica Chimica Acta</i> , 2012, 738, 27-34.	2.6	20
125	Slow release kinetics of mitoxantrone from ordered mesoporous carbon films. <i>Microporous and Mesoporous Materials</i> , 2012, 160, 143-150.	2.2	15
126	High capacity magnetic mesoporous carbon-cobalt composite adsorbents for removal of methylene green from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 127-134.	5.0	27

#	ARTICLE	IF	CITATIONS
127	Impact of chain architecture (branching) on the thermal and mechanical behavior of polystyrene thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 370-377.	2.4	39
128	Photoinitiator surface segregation induced instabilities from polymerization of a liquid coating on a rigid substrate. <i>Soft Matter</i> , 2012, 8, 5225.	1.2	36
129	Finite element modeling of temporary bonding systems for flexible microelectronics fabrication. <i>Microelectronic Engineering</i> , 2012, 94, 18-25.	1.1	5
130	Rapid adsorption of alcohol biofuels by high surface area mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 107-114.	2.2	56
131	Impact of Film Thickness on the Morphology of Mesoporous Carbon Films Using Organic/Organic Self-Assembly. <i>Langmuir</i> , 2011, 27, 5607-5615.	1.6	26
132	Gradient Solvent Vapor Annealing of Block Copolymer Thin Films Using a Microfluidic Mixing Device. <i>Nano Letters</i> , 2011, 11, 1351-1357.	4.5	93
133	Ordered Mesoporous Carbon Composite Films Containing Cobalt Oxide and Vanadia for Electrochemical Applications. <i>Chemistry of Materials</i> , 2011, 23, 2869-2878.	3.2	92
134	Influence of Chain Stiffness on Thermal and Mechanical Properties of Polymer Thin Films. <i>Macromolecules</i> , 2011, 44, 9040-9045.	2.2	77
135	Distribution of hydrogen in low temperature passivated amorphous silicon (a-Si:H) films from neutron reflectivity. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1114-1117.	1.5	4
136	Impact of adhesive rheology on stress-distortion of bonded plastic substrates for flexible electronics applications. <i>Microelectronic Engineering</i> , 2011, 88, 2852-2856.	1.1	8
137	Control of Threshold Voltage and Saturation Mobility Using Dual-Active-Layer Device Based on Amorphous Mixed Metal Oxide Semiconductor on Flexible Plastic Substrates. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3428-3434.	1.6	47
138	Thickness dependent modulus of vacuum deposited organic molecular glasses for organic electronics applications. <i>Soft Matter</i> , 2011, 7, 7269.	1.2	17
139	Evolution of mechanical, optical and electrical properties of self-assembled mesostructured phenolic resins during carbonization. <i>Microporous and Mesoporous Materials</i> , 2011, 138, 86-93.	2.2	17
140	High performance bulk-heterojunction organic solar cells fabricated with non-halogenated solvent processing. <i>Organic Electronics</i> , 2011, 12, 1465-1470.	1.4	91
141	Slip-stick wetting and large contact angle hysteresis on wrinkled surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 825-831.	5.0	27
142	Solubility of non-ionic poly(fluorooxetane)-block-(ethylene oxide)-block-(fluorooxetane) surfactants in carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2011, 57, 95-100.	1.6	3
143	Anomalous Behavior of Polystyrene Blends Using Thermally Induced Surface Wrinkling. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 3.	0.1	0
144	Impact of molecular mass on the elastic modulus of thin polystyrene films. <i>Polymer</i> , 2010, 51, 4211-4217.	1.8	70

#	ARTICLE	IF	CITATIONS
145	Impact of nanopore morphology on cell viability on mesoporous polymer and carbon surfaces. <i>Acta Biomaterialia</i> , 2010, 6, 3035-3043.	4.1	17
146	Impact of low-molecular mass components (oligomers) on the glass transition in thin films of poly(methyl methacrylate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2366-2370.	2.4	20
147	Temporary bond-debond process for manufacture of flexible electronics: Impact of adhesive and carrier properties on performance. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	27
148	Manipulation of the Elastic Modulus of Polymers at the Nanoscale: Influence of UV-Ozone Cross-Linking and Plasticizer. <i>ACS Nano</i> , 2010, 4, 5357-5365.	7.3	37
149	Stabilizing Surfactant Templated Cylindrical Mesopores in Polymer and Carbon Films through Composite Formation with Silica Reinforcement. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9618-9626.	1.5	18
150	Challenges in Fabrication of Mesoporous Carbon Films with Ordered Cylindrical Pores via Phenolic Oligomer Self-Assembly with Triblock Copolymers. <i>ACS Nano</i> , 2010, 4, 189-198.	7.3	90
151	Temporary bond-debond technology for high-performance transistors on flexible substrates. <i>Journal of the Society for Information Display</i> , 2010, 18, 884-891.	0.8	2
152	Thickness dependence of the elastic modulus of tris(8-hydroxyquinolino)aluminium. <i>Soft Matter</i> , 2010, 6, 5783.	1.2	21
153	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
154	Circuit-Level Impact of a-Si:H Thin-Film-Transistor Degradation Effects. <i>IEEE Transactions on Electron Devices</i> , 2009, .	1.6	29
155	Temperature dependence of CO ₂ concentration gradient within polymer films as determined by reactive templating. <i>Journal of Supercritical Fluids</i> , 2009, 51, 256-263.	1.6	5
156	Impact of polymer modulus/chain mobility on water accumulation at polymer/metal oxide interfaces. <i>Polymer</i> , 2009, 50, 3234-3239.	1.8	16
157	Impact of thickness on CO ₂ concentration profiles within polymer films swollen near the critical pressure. <i>Polymer</i> , 2009, 50, 4182-4188.	1.8	19
158	Elastic Modulus of Amorphous Polymer Thin Films: Relationship to the Glass Transition Temperature. <i>ACS Nano</i> , 2009, 3, 2677-2685.	7.3	163
159	Unexpected Scaling Behavior of the Order-Disorder Transition of Nearly Symmetric Polystyrene-block-polyisoprene Diblock Copolymers Dilated with a Nominally Neutral Solvent at Very Low Dilution. <i>Macromolecules</i> , 2009, 42, 4867-4873.	2.2	5
160	Flexible thick-film electrochemical sensors: Impact of mechanical bending and stress on the electrochemical behavior. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 379-385.	4.0	40
161	Atomistic-based continuum constitutive relation for microtubules: elastic modulus prediction. <i>Computational Mechanics</i> , 2008, 42, 607-618.	2.2	28
162	Templating multiple length scales by combining phase separation, self-assembly and photopatterning in porous films. <i>Journal of Colloid and Interface Science</i> , 2008, 328, 374-384.	5.0	6

#	ARTICLE	IF	CITATIONS
163	On the Origins of Sudden Adhesion Loss at a Critical Relative Humidity: Examination of Bulk and Interfacial Contributions. <i>Langmuir</i> , 2008, 24, 9189-9193.	1.6	35
164	Tuning Stability of Mesoporous Silica Films under Biologically Relevant Conditions through Processing with Supercritical CO ₂ . <i>Langmuir</i> , 2008, 24, 11935-11941.	1.6	13
165	Effect of Porogen Molecular Architecture and Loading on Structure of Porous Thin Films. <i>Chemistry of Materials</i> , 2008, 20, 7390-7398.	3.2	5
166	Additive Route to Lithographically Defined Nanoporous Silica, Polymer, and Carbon Films. <i>Langmuir</i> , 2008, 24, 1648-1653.	1.6	2
167	Carbon Dioxide Mediated Synthesis of Mesoporous Silica Films: Tuning Properties using Pressure. <i>Chemistry of Materials</i> , 2008, 20, 3229-3238.	3.2	16
168	Tuning Mechanical Properties of Mesoporous Silicas Using Associating Homopolymers/Block Copolymer Blends as Templates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 53-60.	1.5	18
169	Long Range Concentration Gradients at the Free Surface of Polymer Films Swollen by Carbon Dioxide. <i>Macromolecules</i> , 2008, 41, 9306-9311.	2.2	7
170	Fundamentals of Adhesion Failure for a Model Adhesive (PMMA/Glass) Joint in Humid Environments. <i>Journal of Adhesion</i> , 2008, 84, 339-367.	1.8	16
171	Profiling of hydrogen in metal-insulator-semiconductor sensors using neutron reflectivity. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	2
172	Influence of base additives on the reaction-diffusion front of model chemically amplified photoresists. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 175.	1.3	26
173	Direct measurement of the spatial extent of the in situ developed latent image by neutron reflectivity. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 2514.	1.3	5
174	Effect of Surface Properties on Wrinkling of Ultrathin Films. <i>Journal of Aerospace Engineering</i> , 2007, 20, 38-44.	0.8	63
175	Direct measurement of the in-situ developed latent image: the residual swelling fraction. , 2007, , .		3
176	FTIR measurements of compositional heterogeneities. , 2007, , .		0
177	Evaluation of the 3D compositional heterogeneity effect on line-edge-roughness. , 2007, , .		0
178	Scaling of Interdomain Spacing of Diblock Copolymers in a Selective Diluent. <i>Macromolecules</i> , 2007, 40, 2515-2519.	2.2	10
179	Characterization of Compositional Heterogeneity in Chemically Amplified Photoresist Polymer Thin Films with Infrared Spectroscopy. <i>Macromolecules</i> , 2007, 40, 1497-1503.	2.2	19
180	Examination of the influence of cooperative segmental dynamics on the glass transition and coefficient of thermal expansion in thin films probed using poly(n-alkyl methacrylate)s. <i>Polymer</i> , 2007, 48, 7169-7175.	1.8	46

#	ARTICLE	IF	CITATIONS
181	Effects of humidity on unencapsulated poly(thiophene) thin-film transistors. Applied Physics Letters, 2006, 88, 113514.	1.5	61
182	Elastic Moduli of Ultrathin Amorphous Polymer Films. Macromolecules, 2006, 39, 5095-5099.	2.2	389
183	Measurements of the Reaction-Diffusion Front of Model Chemically Amplified Photoresists with Varying Photoacid Size. Macromolecules, 2006, 39, 8311-8317.	2.2	32
184	Effect of Deprotection Extent on Swelling and Dissolution Regimes of Thin Polymer Films. Langmuir, 2006, 22, 10009-10015.	1.6	23
185	Dissolution fundamentals of 193-nm methacrylate based photoresists. , 2006, , .		3
186	Effect of copolymer composition on acid-catalyzed deprotection reaction kinetics in model photoresists. Polymer, 2006, 47, 6293-6302.	1.8	38
187	Correlating Interfacial Moisture Content and Adhesive Fracture Energy of Polymer Coatings on Different Surfaces. Advanced Engineering Materials, 2006, 8, 114-118.	1.6	18
188	Exposure dose effects on the reaction-diffusion process in model extreme ultraviolet photoresists. Journal of Vacuum Science & Technology B, 2006, 24, 3044.	1.3	8
189	Moisture absorption into ultrathin hydrophilic polymer films on different substrate surfaces. Polymer, 2005, 46, 1635-1642.	1.8	104
190	Water immersion of model photoresists: interfacial influences on water concentration and surface morphology. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 013003.	1.0	12
191	X-ray and neutron reflectivity measurements of moisture transport through model multilayered barrier films for flexible displays. Journal of Applied Physics, 2005, 97, 114509.	1.1	31
192	Direct Measurement of the Counterion Distribution within Swollen Polyelectrolyte Films. Langmuir, 2005, 21, 6647-6651.	1.6	33
193	Specular X-ray Reflectivity and Small Angle Neutron Scattering for Structure Determination of Ordered Mesoporous Dielectric Films. Journal of Physical Chemistry B, 2005, 109, 18445-18450.	1.2	14
194	Control of Moisture at Buried Polymer/Alumina Interfaces through Substrate Surface Modification. Langmuir, 2005, 21, 2460-2464.	1.6	25
195	Influence of a Water Rinse on the Structure and Properties of Poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50.182 Td (1.6	78
196	Characterization of Ordered Mesoporous Silica Films Using Small-Angle Neutron Scattering and X-ray Porosimetry. Chemistry of Materials, 2005, 17, 1398-1408.	3.2	44
197	Tuning Cell Adhesion on Gradient Poly(2-hydroxyethyl methacrylate)-Grafted Surfaces. Langmuir, 2005, 21, 12309-12314.	1.6	135
198	Interfacial Effects on Moisture Absorption in Thin Polymer Films. Langmuir, 2004, 20, 5285-5290.	1.6	74

#	ARTICLE	IF	CITATIONS
199	Effect of Film Thickness on the Validity of the Sauerbrey Equation for Hydrated Polyelectrolyte Films. Journal of Physical Chemistry B, 2004, 108, 12685-12690.	1.2	223
200	Moisture Absorption and Absorption Kinetics in Polyelectrolyte Films: Influence of Film Thickness. Langmuir, 2004, 20, 1453-1458.	1.6	132
201	Resolution limitations in chemically amplified photoresist systems. , 2004, 5376, 333.		28
202	Effect of carbon dioxide sorption on the phase behavior of weakly interacting polymer mixtures: Solvent-induced segregation in deuterated polybutadiene/polyisoprene blends. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3114-3126.	2.4	5
203	Phase Behavior of Polystyrene-block-poly(n-alkyl methacrylate)s Dilated with Carbon Dioxide. Macromolecules, 2003, 36, 4029-4036.	2.2	50
204	Phase Behavior of Diblock Copolymers Dilated with Light Alkanes: Influence of Solvent Compressibility on Upper and Lower Ordering Transitions. Macromolecules, 2002, 35, 4056-4063.	2.2	9
205	Conductive High Temperature Nylon. Journal of Composite Materials, 2000, 34, 2038-2060.	1.2	6
206	Electrically and thermally conductive nylon 6,6. Polymer Composites, 1999, 20, 643-654.	2.3	101
207	Phase Behavior of Nearly Symmetric Polystyrene-block-polyisoprene Copolymers in the Presence of CO2 and Ethane. Macromolecules, 1999, 32, 7907-7912.	2.2	29