Jonathan R Howse

List of Publications by Year
in descending order

73 papers	5,629 citations	136950 32 h-index	98798 67 g-index
74 all docs	74 docs citations	74 times ranked	5756 citing authors

#	Article	IF	Citations
1	Extensional flow affecting shear viscosity: Experimental evidence and comparison to models. Journal of Rheology, 2022, 66, 793-809.	2.6	4
2	The influence of structure and morphology on ion permeation in commercial silicone hydrogel contact lenses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 137-148.	3.4	4
3	Perovskite Crystallization Dynamics during Spin-Casting: An <i>In Situ</i> Wide-Angle X-ray Scattering Study. ACS Applied Energy Materials, 2020, 3, 6155-6164.	5.1	16
4	Broadening the scope of Pd-catalyzed oscillatory carbonylation reactions: solvent, substrate, catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 161-174.	1.7	2
5	A Pickering Emulsion Route to Swimming Active Janus Colloids. Advanced Science, 2018, 5, 1700528.	11.2	49
6	Does 1,8-diiodooctane affect the aggregation state of PC ₇₁ BM in solution?. Royal Society Open Science, 2018, 5, 180937.	2.4	7
7	Efficient long-range electron transfer processes in polyfluoreneâ€"perylene diimide blends. Nanoscale, 2018, 10, 10934-10944.	5.6	8
8	Highly Ordered Titanium Dioxide Nanostructures via a Simple One-Step Vapor-Inclusion Method in Block Copolymer Films. ACS Applied Nano Materials, 2018, 1, 3426-3434.	5.0	16
9	Selective molecular annealing: in situ small angle X-ray scattering study of microwave-assisted annealing of block copolymers. Physical Chemistry Chemical Physics, 2017, 19, 20412-20419.	2.8	13
10	Gravimetric and density profiling using the combination of surface acoustic waves and neutron reflectivity. Journal of Colloid and Interface Science, 2017, 487, 465-474.	9.4	5
11	Development of an optical microscopy system for automated bubble cloud analysis: publisherâ€™s note. Applied Optics, 2016, 55, 7392.	2.1	2
12	Development of an optical microscopy system for automated bubble cloud analysis. Applied Optics, 2016, 55, 6102.	2.1	8
13	Insights into the Influence of Solvent Polarity on the Crystallization of Poly(ethylene oxide) Spin-Coated Thin Films viain SituGrazing Incidence Wide-Angle X-ray Scattering. Macromolecules, 2016, 49, 4579-4586.	4.8	31
14	Influence of Surface Wettability on Microbubble Formation. Langmuir, 2016, 32, 1269-1278.	3.5	19
15	Boundaries can steer active Janus spheres. Nature Communications, 2015, 6, 8999.	12.8	290
16	Synthesis, Thermal Processing, and Thin Film Morphology of Poly(3-hexylthiophene)â€"Poly(styrenesulfonate) Block Copolymers. Macromolecules, 2015, 48, 2107-2117.	4.8	46
17	Stroboscopic microscopyâ€"direct imaging of structure development and phase separation during spinâ€coating. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 17-25.	2.1	8
18	Hydration and Ordering of Lamellar Block Copolymer Films under Controlled Water Vapor. Macromolecules, 2014, 47, 8682-8690.	4.8	12

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19	Electrokinetic effects in catalytic platinum-insulator Janus swimmers. Europhysics Letters, 2014, 106, 58003.	2.0	181
20	Electrochemically-triggered spatially and temporally resolved multi-component gels. Materials Horizons, 2014, 1, 241-246.	12.2	78
21	On the mechanisms of colloidal self-assembly during spin-coating. Soft Matter, 2014, 10, 8804-8812.	2.7	51
22	Reduced curvilinear velocity of boar sperm on substrates with increased hydrophobicity. Theriogenology, 2014, 81, 764-769.	2.1	0
23	Real time laser interference microscopy for barâ€spread polystyrene/poly(methyl methacrylate) blends. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 985-992.	2.1	2
24	Determination of Solventâ€"Polymer and Polymerâ€"Polymer Floryâ€"Huggins Interaction Parameters for Poly(3-hexylthiophene) via Solvent Vapor Swelling. Macromolecules, 2013, 46, 6533-6540.	4.8	111
25	Directed phase separation of PFO:PS blends during spin-coating using feedback controlled in situ stroboscopic fluorescence microscopy. Journal of Materials Chemistry A, 2013, 1, 3587.	10.3	24
26	The Relationship between Charge Density and Polyelectrolyte Brush Profile Using Simultaneous Neutron Reflectivity and In Situ Attenuated Total Internal Reflection FTIR. Langmuir, 2013, 29, 6068-6076.	3.5	25
27	Development of in situ studies of spin coated polymer films. Journal of Materials Chemistry C, 2013, 1, 603-616.	5.5	39
28	Direct observation of morphological development during the spinâ€coating of polystyreneâ€"poly(methyl) Tj ETQq0 0 0 rgBT /Overlock	2.1	22
29	In Situ Studies of Phase Separation and Crystallization Directed by Marangoni Instabilities During Spinâ€Coating. Advanced Materials, 2013, 25, 7033-7037.	21.0	26
30	Importance of Particle Tracking and Calculating the Mean-Squared Displacement in Distinguishing Nanopropulsion from Other Processes. Langmuir, 2012, 28, 10997-11006.	3.5	159
31	Autonomous propulsion. Nature Chemistry, 2012, 4, 247-248.	13.6	6
32	Synthetic running and tumbling: an autonomous navigation strategy for catalytic nanoswimmers. Soft Matter, 2012, 8, 3077.	2.7	25
33	pH-Dependent Control of Particle Motion through Surface Interactions with Patterned Polymer Brush Surfaces. Langmuir, 2012, 28, 12955-12961.	3.5	13
34	Size dependence of the propulsion velocity for catalytic Janus-sphere swimmers. Physical Review E, 2012, 85, 020401.	2.1	189
35	The effect of the hydrothermal carbonization process on palm oil empty fruit bunch. Biomass and Bioenergy, 2012, 47, 82-90.	5.7	93
36	Shear ordered diblock copolymers with tuneable optical properties. Physical Chemistry Chemical Physics, 2011, 13, 3179-3186.	2.8	14

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37	<i>In</i> <i>Situ</i> Imaging and Height Reconstruction of Phase Separation Processes in Polymer Blends during Spin Coating. ACS Nano, 2011, 5, 5124-5131.	14.6	65
38	Direct Observation of the Direction of Motion for Spherical Catalytic Swimmers. Langmuir, 2011, 27, 12293-12296.	3.5	165
39	Controlling the Motion and Placement of Micrometer-Sized Metal Particles Using Patterned Polymer Brush Surfaces. Langmuir, 2011, 27, 11801-11805.	3.5	12
40	Continuously tuneable optical filters from self-assembled block copolymer blends. Soft Matter, 2011, 7, 3721.	2.7	26
41	Surface Interactions for Controlling the Microfluidic Separation of Polymeric Microspheres. Materials Research Society Symposia Proceedings, 2011, 1357, 1.	0.1	0
42	Controlling Phoretic Swimmer Trajectory. Materials Research Society Symposia Proceedings, 2011, 1346, 1.	0.1	0
43	In pursuit of propulsion at the nanoscale. Soft Matter, 2010, 6, 726.	2.7	534
44	Self-assembled autonomous runners and tumblers. Physical Review E, 2010, 82, 015304.	2.1	157
45	Effect of the Hofmeister Anions upon the Swelling of a Self-Assembled pH-Responsive Hydrogel. Langmuir, 2010, 26, 10191-10197.	3.5	66
46	Covalently Cross-Linked Colloidosomes. Macromolecules, 2010, 43, 10466-10474.	4.8	98
47	Quantifying hydrogel response using laser light scattering. Soft Matter, 2010, 6, 743-749.	2.7	3
48	Homopolymer Induced Aggregation of Poly(ethylene oxide)_{<i>n</i>}-b-poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.5	13
49	The ROV Pontus - A winning design. , 2009, , .		1
50	Templated formation of giant polymer vesicles with controlled size distributions. Nature Materials, 2009, 8, 507-511.	27.5	197
51	Synthesis, characterization and swelling behaviour of poly(methacrylic acid) brushes synthesized using atom transfer radical polymerization. Polymer, 2009, 50, 1005-1014.	3.8	76
52	ROV <i>Pontus</i>. Marine Technology Society Journal, 2009, 43, 37-46.	0.4	0
53	Preparation of stable foams using sterically stabilized pH-responsive latexes synthesized by emulsion polymerization. Journal of Materials Chemistry, 2008, 18, 545-552.	6.7	50
54	Floating Lipid Bilayers Deposited on Chemically Grafted Phosphatidylcholine Surfaces. Langmuir, 2008, 24, 1989-1999.	3.5	53

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55	Autonomous Volume Transitions of a Polybase Triblock Copolymer Gel in a Chemically Driven pHâ€Oscillator. Macromolecular Symposia, 2007, 256, 95-104.	0.7	25
56	Technical Report of the Eastern Edge Robotics Team The Marine Institute of Memorial University 2007 MATE/MTS International Robotics Competition, Explorer Class. Marine Technology Society Journal, 2007, 41, 72-82.	0.4	0
57	Self-Motile Colloidal Particles: From Directed Propulsion to Random Walk. Physical Review Letters, 2007, 99, 048102.	7.8	1,717
58	The performance of poly(styrene)-block-poly(2-vinyl pyridine)-block-poly(styrene) triblock copolymers as pH-driven actuators. Soft Matter, 2007, 3, 1506.	2.7	28
59	Antagonistic Triblock Polymer Gels Powered by pH Oscillations. Macromolecules, 2007, 40, 4393-4395.	4.8	81
60	Melt-Processing of Conjugated Liquid Crystals: A Simple Route to Fabricate OFETs. Advanced Materials, 2007, 19, 805-809.	21.0	43
61	Electrospinning pHâ€Responsive Block Copolymer Nanofibers. Advanced Materials, 2007, 19, 3544-3548.	21.0	65
62	The pH-induced swelling and collapse of a polybase brush synthesized by atom transfer radical polymerization. Soft Matter, 2006, 2, 1076-1080.	2.7	53
63	Noncovalent Cross-Linking of Casein by Epigallocatechin Gallate Characterized by Single Molecule Force Microscopy. Journal of Agricultural and Food Chemistry, 2006, 54, 4077-4081.	5.2	117
64	Reciprocating Power Generation in a Chemically Driven Synthetic Muscle. Nano Letters, 2006, 6, 73-77.	9.1	131
65	Synthesis and Solid State Properties of a Poly(methyl methacrylate)-block-poly(2-(diethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overl 5573-5576.	4.8	36
66	Controlled growth of poly (2-(diethylamino)ethyl methacrylate) brushes via atom transfer radical polymerisation on planar silicon surfaces. Polymer International, 2006, 55, 808-815.	3.1	24
67	Responsive brushes and gels as components of soft nanotechnology. Faraday Discussions, 2005, 128, 55-74.	3.2	90
68	Critical adsorption and boundary layer structure of 2-butoxyethanol+D2O mixtures at a hydrophilic silica surface. Journal of Chemical Physics, 2002, 116, 7177-7188.	3.0	35
69	Hybrid biomembrane substructure determination by contrast-variation analysis. Applied Physics A: Materials Science and Processing, 2002, 74, s1262-s1263.	2.3	7
70	Adsorbed surfactant layers at polymer/liquid interfaces. A neutron reflectivity study. Physical Chemistry Chemical Physics, 2001, 3, 4044-4051.	2.8	39
71	Neutron reflectivity studies of critical adsorption:â€ƒThe correspondence between a critical adsorption profile and specular neutron reflection. Physical Review E, 1999, 59, 5577-5581.	2.1	16
72	Neutron reflectivity studies of the free liquid surface of methylcyclohexaneâ€“perfluoromethylcyclohexane near the critical endpoint. Physical Chemistry Chemical Physics, 1999, 1, 4635-4643.	2.8	5

#	Article	IF	Citations
73	Self-Motile Colloidal Particles: From Directed Propulsion to Random Walk. , 0, .		1