

Jonathan R Howse

List of Publications by Year in descending order

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73
papers

5,629
citations

136950

32
h-index

98798

67
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74
all docs

74
docs citations

74
times ranked

5756
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Motile Colloidal Particles: From Directed Propulsion to Random Walk. <i>Physical Review Letters</i> , 2007, 99, 048102.	7.8	1,717
2	In pursuit of propulsion at the nanoscale. <i>Soft Matter</i> , 2010, 6, 726.	2.7	534
3	Boundaries can steer active Janus spheres. <i>Nature Communications</i> , 2015, 6, 8999.	12.8	290
4	Templated formation of giant polymer vesicles with controlled size distributions. <i>Nature Materials</i> , 2009, 8, 507-511.	27.5	197
5	Size dependence of the propulsion velocity for catalytic Janus-sphere swimmers. <i>Physical Review E</i> , 2012, 85, 020401.	2.1	189
6	Electrokinetic effects in catalytic platinum-insulator Janus swimmers. <i>Europhysics Letters</i> , 2014, 106, 58003.	2.0	181
7	Direct Observation of the Direction of Motion for Spherical Catalytic Swimmers. <i>Langmuir</i> , 2011, 27, 12293-12296.	3.5	165
8	Importance of Particle Tracking and Calculating the Mean-Squared Displacement in Distinguishing Nanopropulsion from Other Processes. <i>Langmuir</i> , 2012, 28, 10997-11006.	3.5	159
9	Self-assembled autonomous runners and tumblers. <i>Physical Review E</i> , 2010, 82, 015304.	2.1	157
10	Reciprocating Power Generation in a Chemically Driven Synthetic Muscle. <i>Nano Letters</i> , 2006, 6, 73-77.	9.1	131
11	Noncovalent Cross-Linking of Casein by Epigallocatechin Gallate Characterized by Single Molecule Force Microscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4077-4081.	5.2	117
12	Determination of Solvent-Polymer and Polymer-Polymer Flory-Huggins Interaction Parameters for Poly(3-hexylthiophene) via Solvent Vapor Swelling. <i>Macromolecules</i> , 2013, 46, 6533-6540.	4.8	111
13	Covalently Cross-Linked Colloidosomes. <i>Macromolecules</i> , 2010, 43, 10466-10474.	4.8	98
14	The effect of the hydrothermal carbonization process on palm oil empty fruit bunch. <i>Biomass and Bioenergy</i> , 2012, 47, 82-90.	5.7	93
15	Responsive brushes and gels as components of soft nanotechnology. <i>Faraday Discussions</i> , 2005, 128, 55-74.	3.2	90
16	Antagonistic Triblock Polymer Gels Powered by pH Oscillations. <i>Macromolecules</i> , 2007, 40, 4393-4395.	4.8	81
17	Electrochemically-triggered spatially and temporally resolved multi-component gels. <i>Materials Horizons</i> , 2014, 1, 241-246.	12.2	78
18	Synthesis, characterization and swelling behaviour of poly(methacrylic acid) brushes synthesized using atom transfer radical polymerization. <i>Polymer</i> , 2009, 50, 1005-1014.	3.8	76

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19	Effect of the Hofmeister Anions upon the Swelling of a Self-Assembled pH-Responsive Hydrogel. <i>Langmuir</i> , 2010, 26, 10191-10197.	3.5	66
20	Electrospinning pH-Responsive Block Copolymer Nanofibers. <i>Advanced Materials</i> , 2007, 19, 3544-3548.	21.0	65
21	<i>In Situ</i> Imaging and Height Reconstruction of Phase Separation Processes in Polymer Blends during Spin Coating. <i>ACS Nano</i> , 2011, 5, 5124-5131.	14.6	65
22	The pH-induced swelling and collapse of a polybase brush synthesized by atom transfer radical polymerization. <i>Soft Matter</i> , 2006, 2, 1076-1080.	2.7	53
23	Floating Lipid Bilayers Deposited on Chemically Grafted Phosphatidylcholine Surfaces. <i>Langmuir</i> , 2008, 24, 1989-1999.	3.5	53
24	On the mechanisms of colloidal self-assembly during spin-coating. <i>Soft Matter</i> , 2014, 10, 8804-8812.	2.7	51
25	Preparation of stable foams using sterically stabilized pH-responsive latexes synthesized by emulsion polymerization. <i>Journal of Materials Chemistry</i> , 2008, 18, 545-552.	6.7	50
26	A Pickering Emulsion Route to Swimming Active Janus Colloids. <i>Advanced Science</i> , 2018, 5, 1700528.	11.2	49
27	Synthesis, Thermal Processing, and Thin Film Morphology of Poly(3-hexylthiophene)- <i>b</i> -Poly(styrenesulfonate) Block Copolymers. <i>Macromolecules</i> , 2015, 48, 2107-2117.	4.8	46
28	Melt-Processing of Conjugated Liquid Crystals: A Simple Route to Fabricate OFETs. <i>Advanced Materials</i> , 2007, 19, 805-809.	21.0	43
29	Adsorbed surfactant layers at polymer/liquid interfaces. A neutron reflectivity study. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4044-4051.	2.8	39
30	Development of in situ studies of spin coated polymer films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 603-616.	5.5	39
31	Synthesis and Solid State Properties of a Poly(methyl methacrylate)-block-poly(2-(diethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Over 5573-5576.	4.8	36
32	Critical adsorption and boundary layer structure of 2-butoxyethanol+D2O mixtures at a hydrophilic silica surface. <i>Journal of Chemical Physics</i> , 2002, 116, 7177-7188.	3.0	35
33	Insights into the Influence of Solvent Polarity on the Crystallization of Poly(ethylene oxide) Spin-Coated Thin Films via <i>In Situ</i> Grazing Incidence Wide-Angle X-ray Scattering. <i>Macromolecules</i> , 2016, 49, 4579-4586.	4.8	31
34	The performance of poly(styrene)-block-poly(2-vinyl pyridine)-block-poly(styrene) triblock copolymers as pH-driven actuators. <i>Soft Matter</i> , 2007, 3, 1506.	2.7	28
35	Continuously tuneable optical filters from self-assembled block copolymer blends. <i>Soft Matter</i> , 2011, 7, 3721.	2.7	26
36	In Situ Studies of Phase Separation and Crystallization Directed by Marangoni Instabilities During Spin-Coating. <i>Advanced Materials</i> , 2013, 25, 7033-7037.	21.0	26

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37	Autonomous Volume Transitions of a Polybase Triblock Copolymer Gel in a Chemically Driven pH-Oscillator. <i>Macromolecular Symposia</i> , 2007, 256, 95-104.	0.7	25
38	Synthetic running and tumbling: an autonomous navigation strategy for catalytic nanoswimmers. <i>Soft Matter</i> , 2012, 8, 3077.	2.7	25
39	The Relationship between Charge Density and Polyelectrolyte Brush Profile Using Simultaneous Neutron Reflectivity and In Situ Attenuated Total Internal Reflection FTIR. <i>Langmuir</i> , 2013, 29, 6068-6076.	3.5	25
40	Controlled growth of poly (2-(diethylamino)ethyl methacrylate) brushes via atom transfer radical polymerisation on planar silicon surfaces. <i>Polymer International</i> , 2006, 55, 808-815.	3.1	24
41	Directed phase separation of PFO:PS blends during spin-coating using feedback controlled in situ stroboscopic fluorescence microscopy. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3587.	10.3	24
42	Direct observation of morphological development during the spin-coating of polystyrene-poly(methyl methacrylate) block copolymer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3587.	2.1	22
43	Influence of Surface Wettability on Microbubble Formation. <i>Langmuir</i> , 2016, 32, 1269-1278.	3.5	19
44	Neutron reflectivity studies of critical adsorption: The correspondence between a critical adsorption profile and specular neutron reflection. <i>Physical Review E</i> , 1999, 59, 5577-5581.	2.1	16
45	Highly Ordered Titanium Dioxide Nanostructures via a Simple One-Step Vapor-Inclusion Method in Block Copolymer Films. <i>ACS Applied Nano Materials</i> , 2018, 1, 3426-3434.	5.0	16
46	Perovskite Crystallization Dynamics during Spin-Casting: An In Situ Wide-Angle X-ray Scattering Study. <i>ACS Applied Energy Materials</i> , 2020, 3, 6155-6164.	5.1	16
47	Shear ordered diblock copolymers with tuneable optical properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3179-3186.	2.8	14
48	Homopolymer Induced Aggregation of Poly(ethylene oxide)-b-poly(butylene oxide) block copolymer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3587.	3.5	13
49	pH-Dependent Control of Particle Motion through Surface Interactions with Patterned Polymer Brush Surfaces. <i>Langmuir</i> , 2012, 28, 12955-12961.	3.5	13
50	Selective molecular annealing: in situ small angle X-ray scattering study of microwave-assisted annealing of block copolymers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20412-20419.	2.8	13
51	Controlling the Motion and Placement of Micrometer-Sized Metal Particles Using Patterned Polymer Brush Surfaces. <i>Langmuir</i> , 2011, 27, 11801-11805.	3.5	12
52	Hydration and Ordering of Lamellar Block Copolymer Films under Controlled Water Vapor. <i>Macromolecules</i> , 2014, 47, 8682-8690.	4.8	12
53	Stroboscopic microscopy direct imaging of structure development and phase separation during spin-coating. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 17-25.	2.1	8
54	Development of an optical microscopy system for automated bubble cloud analysis. <i>Applied Optics</i> , 2016, 55, 6102.	2.1	8

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55	Efficient long-range electron transfer processes in polyfluorene- <i>perylene diimide</i> blends. <i>Nanoscale</i> , 2018, 10, 10934-10944.	5.6	8
56	Hybrid biomembrane substructure determination by contrast-variation analysis. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1262-s1263.	2.3	7
57	Does 1,8-diiodooctane affect the aggregation state of PC ₇₁ BM in solution?. <i>Royal Society Open Science</i> , 2018, 5, 180937.	2.4	7
58	Autonomous propulsion. <i>Nature Chemistry</i> , 2012, 4, 247-248.	13.6	6
59	Neutron reflectivity studies of the free liquid surface of methylcyclohexane- <i>perfluoromethylcyclohexane</i> near the critical endpoint. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4635-4643.	2.8	5
60	Gravimetric and density profiling using the combination of surface acoustic waves and neutron reflectivity. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 465-474.	9.4	5
61	The influence of structure and morphology on ion permeation in commercial silicone hydrogel contact lenses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 137-148.	3.4	4
62	Extensional flow affecting shear viscosity: Experimental evidence and comparison to models. <i>Journal of Rheology</i> , 2022, 66, 793-809.	2.6	4
63	Quantifying hydrogel response using laser light scattering. <i>Soft Matter</i> , 2010, 6, 743-749.	2.7	3
64	Real time laser interference microscopy for bar- <i>spread polystyrene/poly(methyl methacrylate)</i> blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 985-992.	2.1	2
65	Development of an optical microscopy system for automated bubble cloud analysis: publisher's note. <i>Applied Optics</i> , 2016, 55, 7392.	2.1	2
66	Broadening the scope of Pd-catalyzed oscillatory carbonylation reactions: solvent, substrate, catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 127, 161-174.	1.7	2
67	The ROV Pontus - A winning design. , 2009, , .		1
68	Self-Motile Colloidal Particles: From Directed Propulsion to Random Walk. , 0, .		1
69	Technical Report of the Eastern Edge Robotics Team The Marine Institute of Memorial University 2007 MATE/MTS International Robotics Competition, Explorer Class. <i>Marine Technology Society Journal</i> , 2007, 41, 72-82.	0.4	0
70	ROV <i>Pontus</i> . <i>Marine Technology Society Journal</i> , 2009, 43, 37-46.	0.4	0
71	Surface Interactions for Controlling the Microfluidic Separation of Polymeric Microspheres. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1357, 1.	0.1	0
72	Controlling Phoretic Swimmer Trajectory. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1346, 1.	0.1	0

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73	Reduced curvilinear velocity of boar sperm on substrates with increased hydrophobicity. <i>Theriogenology</i> , 2014, 81, 764-769.	2.1	0