

Brian S Hawkett

List of Publications by Year in descending order

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74
papers

3,730
citations

172457

29
h-index

128289

60
g-index

76
all docs

76
docs citations

76
times ranked

3452
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab Initio Emulsion Polymerization by RAFT-Controlled Self-Assembly. <i>Macromolecules</i> , 2005, 38, 2191-2204.	4.8	592
2	Effective ab Initio Emulsion Polymerization under RAFT Control. <i>Macromolecules</i> , 2002, 35, 9243-9245.	4.8	394
3	Synthesis of Anisotropic Nanoparticles by Seeded Emulsion Polymerization. <i>Langmuir</i> , 2006, 22, 4037-4043.	3.5	263
4	Pigment Encapsulation by Emulsion Polymerization Using Macro-RAFT Copolymers. <i>Langmuir</i> , 2008, 24, 2140-2150.	3.5	182
5	Seeded emulsion polymerization of styrene. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1980, 76, 1323.	1.0	164
6	Chain Transfer to Polymer and Branching in Controlled Radical Polymerizations of <i>n</i> -Butyl Acrylate. <i>Macromolecular Rapid Communications</i> , 2009, 30, 2002-2021.	3.9	136
7	Particle Formation in ab Initio RAFT Mediated Emulsion Polymerization Systems. <i>Macromolecules</i> , 2007, 40, 6181-6189.	4.8	129
8	RAFT Polymerization Kinetics: Combination of Apparently Conflicting Models. <i>Macromolecules</i> , 2008, 41, 6400-6412.	4.8	116
9	Miniemulsion Polymerization Stabilized by Amphiphathic Macro RAFT Agents. <i>Macromolecules</i> , 2003, 36, 8907-8909.	4.8	107
10	Polymer Encapsulated Gibbsite Nanoparticles: Efficient Preparation of Anisotropic Composite Latex Particles by RAFT-Based Starved Feed Emulsion Polymerization. <i>Langmuir</i> , 2009, 25, 10523-10533.	3.5	94
11	RAFT polymerization kinetics: How long are the cross-terminating oligomers?. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3455-3466.	2.3	82
12	Operation of semi-batch emulsion polymerisation reactors: Modelling, validation and effect of operating conditions. <i>Chemical Engineering Science</i> , 2002, 57, 2955-2969.	3.8	75
13	Durable Superhydrophobic Surfaces via Spontaneous Wrinkling of Teflon AF. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6743-6750.	8.0	72
14	Biodistribution and Clearance of Stable Superparamagnetic Maghemite Iron Oxide Nanoparticles in Mice Following Intraperitoneal Administration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 205.	4.1	72
15	Optimized Steric Stabilization of Aqueous Ferrofluids and Magnetic Nanoparticles. <i>Langmuir</i> , 2010, 26, 4465-4472.	3.5	71
16	Stable and Water-Tolerant Ionic Liquid Ferrofluids. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 662-667.	8.0	70
17	Molecular Watchmaking: ab initio Emulsion Polymerization by RAFT-controlled Self-assembly. <i>Macromolecular Symposia</i> , 2005, 231, 84-93.	0.7	62
18	Synthesis of polymeric janus nanoparticles and their application in surfactant-free emulsion polymerizations. <i>Polymer Chemistry</i> , 2015, 6, 426-435.	3.9	58

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19	Endogenous fibrinolysis facilitates clot retraction in vivo. <i>Blood</i> , 2017, 130, 2453-2462.	1.4	56
20	Polymer coating of graphene oxide via reversible addition-fragmentation chain transfer mediated emulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1413-1421.	2.3	49
21	Obtaining Kinetic Information from the Chain-Length Distribution of Polymers Produced by RAFT. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7086-7094.	2.6	48
22	Polymer coating of carboxylic acid functionalized multiwalled carbon nanotubes via reversible addition-fragmentation chain transfer mediated emulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 250-257.	2.3	48
23	Ultrasmall superparamagnetic iron oxide nanoparticle prelabelling of human neural precursor cells. <i>Biomaterials</i> , 2014, 35, 5549-5564.	11.4	47
24	Micron-sized polystyrene particles by surfactant-free emulsion polymerization in air: Synthesis and mechanism. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3997-4002.	2.3	44
25	Radiosensitization effects and ROS generation by high Z metallic nanoparticles on human colon carcinoma cell (HCT116) irradiated under 150 MeV proton beam. <i>OpenNano</i> , 2019, 4, 100027.	4.8	43
26	Polymer-TiO ₂ composite nanorattles via RAFT-mediated emulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 346-352.	2.3	36
27	Miniemulsion Polymerization with Arrested Ostwald Ripening Stabilized by Amphiphilic RAFT Copolymers. <i>Macromolecules</i> , 2010, 43, 7950-7957.	4.8	34
28	Aqueous Polymeric Hollow Particles as an Opacifier by Emulsion Polymerization Using Macro-RAFT Amphiphiles. <i>Langmuir</i> , 2018, 34, 4255-4263.	3.5	32
29	Analysis of interval III kinetic data for emulsion polymerizations. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1981, 77, 2395.	1.0	31
30	Monodispersed polymer encapsulated superparamagnetic iron oxide nanoparticles for cell labeling. <i>Polymer</i> , 2016, 106, 238-248.	3.8	30
31	Self-Assembling Array of Magneto-electrostatic Jets from the Surface of a Superparamagnetic Ionic Liquid. <i>Langmuir</i> , 2014, 30, 14143-14150.	3.5	29
32	Preparation of Inert Polystyrene Latex Particles as MicroRNA Delivery Vectors by Surfactant-Free RAFT Emulsion Polymerization. <i>Biomacromolecules</i> , 2016, 17, 965-973.	5.4	26
33	Fluorescent Labeling and Biodistribution of Latex Nanoparticles Formed by Surfactant-Free RAFT Emulsion Polymerization. <i>Macromolecular Bioscience</i> , 2017, 17, 1600366.	4.1	26
34	Radical capture efficiencies in emulsion polymerization. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1981, 19, 3173-3179.	0.8	25
35	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2491-2501.	2.3	25
36	Tunable and noncytotoxic PET/SPECT-MRI multimodality imaging probes using colloiddally stable ligand-free superparamagnetic iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 899-909.	6.7	25

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37	Steric Stabilization of Fe_2O_3 Superparamagnetic Nanoparticles in a Hydrophobic Ionic Liquid and the Magnetorheological Behavior of the Ferrofluid. <i>Langmuir</i> , 2018, 34, 3068-3075.	3.5	24
38	Short chain amphiphilic diblock co-oligomers via RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 187-198.	2.3	23
39	The composition and end-group functionality of sterically stabilized nanoparticles enhances the effectiveness of co-administered cytotoxins. <i>Biomaterials Science</i> , 2013, 1, 1260-1272.	5.4	23
40	A "grafting from" approach to polymer nanorods for pH-triggered intracellular drug delivery. <i>Polymer</i> , 2017, 112, 244-251.	3.8	21
41	Electrical impedance spectroscopy for determining critical micelle concentration of ionic emulsifiers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 195-203.	4.7	18
42	The mechanism of the spontaneous detonation of ammonium nitrate in reactive grounds. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 281-288.	6.7	18
43	Non-invasive transdermal delivery of chemotherapeutic molecules in vivo using superparamagnetic iron oxide nanoparticles. <i>Cancer Nanotechnology</i> , 2021, 12, .	3.7	17
44	The Determination of the Isoelectric Point from Measurements of Dispersion Viscosity as a Function of pH. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 469-472.	2.4	15
45	SPION-Decorated Nanofibers by RAFT-Mediated Free Radical Emulsion Polymerization-Induced Self Assembly. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800402.	3.9	15
46	General solution to the Smith-Ewart equation for emulsion polymerization kinetics. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1977, 73, 690.	1.0	12
47	Thermoresponsive behavior of amphiphilic diblock co-oligomers of ethylene glycol and styrene in aqueous solution. <i>Soft Matter</i> , 2013, 9, 7007.	2.7	12
48	Premature detonation of an NH_4NO_3 emulsion in reactive ground. <i>Journal of Hazardous Materials</i> , 2015, 283, 314-320.	12.4	12
49	Control of Particle Morphology in Ab Initio RAFT Mediated Emulsion Polymerization. <i>Australian Journal of Chemistry</i> , 2009, 62, 1501.	0.9	11
50	The interaction of sterically stabilized magnetic nanoparticles with fresh human red blood cells. <i>International Journal of Nanomedicine</i> , 2015, 10, 6645.	6.7	11
51	Emulsion polymerization kinetics. General solutions for Smith-Ewart cases I and II. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1975, 71, 2288.	1.0	10
52	Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles. <i>Small Methods</i> , 2021, 5, e2000692.	8.6	8
53	Mechanical properties of Ropaque hollow nanoparticles. <i>Polymer</i> , 2017, 131, 10-16.	3.8	7
54	A rheological investigation of the self-assembly and adsorption behavior of a surfactant salt. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 46-53.	9.4	6

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55	Effect of Stabilizer Functionality on the Kinetics of Emulsion Polymerization in Hairy Particles. <i>Macromolecules</i> , 2011, 44, 8744-8754.	4.8	6
56	Phase Behavior of Amphiphilic Diblock Co-oligomers with Nonionic and Ionic Hydrophilic Groups. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3005-3018.	2.6	6
57	Species measurements in the beam of an ionic liquid ferrofluid capillary electrospray source under magnetic stress. , 2016, , .		6
58	Softâ€‘hard Janus nanoparticles for polymer encapsulation of solid particulate. <i>Polymer Chemistry</i> , 2020, 11, 5610-5618.	3.9	6
59	Encapsulation by Directed PISA: RAFTâ€‘Based Polymerâ€‘Vesiculated Pigment for Opacity Enhancement in Paint Films. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100008.	3.9	6
60	MÃ‘ssbauer evaluation of the interparticle magnetic Interactions within the magnetic hyperthermia beads. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 347-352.	2.3	5
61	Ultra-thin patchy polymer-coated graphene oxide as a novel anticancer drug carrier. <i>Polymer Chemistry</i> , 2021, 12, 92-104.	3.9	5
62	Species measurements in the beam of an ionic liquid ferrofluid electrospray source. , 2014, , .		4
63	Waterborne, all-polymeric, colloidal â€‘raspberryâ€™ particles with controllable hydrophobicity and water droplet adhesion properties. <i>Thin Solid Films</i> , 2016, 603, 69-74.	1.8	4
64	Effect of a homogeneous magnetic field on the electro spraying characteristics of sulfolaneâ€‘ferrofluids. <i>Journal of Fluid Mechanics</i> , 2017, 833, 430-444.	3.4	4
65	Safer emulsion explosives resulting from NOx inhibition. <i>Chemical Engineering Journal</i> , 2021, 403, 125713.	12.7	4
66	Fluorescence Enhancement through Confined Oligomerization in Nanochannels: An Anthryl Oligomer in a Metal-Organic Framework. , 2021, 3, 1599-1604.		4
67	RAFT Polymerization: A Powerful Tool for the Synthesis and Study of Oligomers. <i>ACS Symposium Series</i> , 2012, , 13-25.	0.5	3
68	The effects of magnetic surface stress on electrospray of an ionic liquid ferrofluid. , 2016, , .		3
69	How pointed can magnetized ferrofluid tips be?. <i>Physical Review Fluids</i> , 2020, 5, , .	2.5	2
70	Synthesis and Applications of Polymeric Janus Nanoparticles. , 2017, , 31-68.		2
71	Janus particles by simplified RAFT-based emulsion polymerization process for polymer coating. <i>Colloid and Polymer Science</i> , 2022, 300, 341-349.	2.1	2
72	Controlling the Locus of Bubble Nucleation by Dissolved Gases in Heterogeneous Liquidâ€‘Liquid Systems. <i>Langmuir</i> , 2010, 26, 684-691.	3.5	1

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73	Atomic-scale Observation of Hydroxyapatite Nanoparticle. <i>Microscopy and Microanalysis</i> , 2019, 25, 2528-2529.	0.4	0
74	Inside Front Cover: Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles (Small) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	8.6	0