

Matthew Derry

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,362
citations

26
h-index

48
g-index

63
ext. papers

2,810
ext. citations

7.7
avg, IF

5.56
L-index

#	Paper	IF	Citations
59	Polymerization-induced self-assembly of block copolymer nanoparticles via RAFT non-aqueous dispersion polymerization. <i>Progress in Polymer Science</i> , 2016 , 52, 1-18	29.6	428
58	RAFT dispersion polymerization in non-polar solvents: facile production of block copolymer spheres, worms and vesicles in n-alkanes. <i>Chemical Science</i> , 2013 , 4, 2081	9.4	216
57	Thermo-responsive diblock copolymer worm gels in non-polar solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5790-8	16.4	208
56	Using Dynamic Covalent Chemistry To Drive Morphological Transitions: Controlled Release of Encapsulated Nanoparticles from Block Copolymer Vesicles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7616-7623	16.4	121
55	Industrially-relevant polymerization-induced self-assembly formulations in non-polar solvents: RAFT dispersion polymerization of benzyl methacrylate. <i>Polymer Chemistry</i> , 2015 , 6, 3054-3062	4.9	118
54	small-angle X-ray scattering studies of sterically-stabilized diblock copolymer nanoparticles formed during polymerization-induced self-assembly in non-polar media. <i>Chemical Science</i> , 2016 , 7, 5078-5090	9.4	93
53	Vermicious thermo-responsive Pickering emulsifiers. <i>Chemical Science</i> , 2015 , 6, 4207-4214	9.4	81
52	Preparation of Pickering double emulsions using block copolymer worms. <i>Langmuir</i> , 2015 , 31, 4137-44	4	71
51	A Vesicle-to-Worm Transition Provides a New High-Temperature Oil Thickening Mechanism. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1746-1750	16.4	62
50	Effect of Monomer Solubility on the Evolution of Copolymer Morphology during Polymerization-Induced Self-Assembly in Aqueous Solution. <i>Macromolecules</i> , 2017 , 50, 796-802	5.5	62
49	ABC Triblock Copolymer Worms: Synthesis, Characterization, and Evaluation as Pickering Emulsifiers for Millimeter-Sized Droplets. <i>Macromolecules</i> , 2016 , 49, 7897-7907	5.5	59
48	Polydimethylsiloxane-Based Diblock Copolymer Nano-objects Prepared in Nonpolar Media via RAFT-Mediated Polymerization-Induced Self-Assembly. <i>Macromolecules</i> , 2015 , 48, 3547-3555	5.5	58
47	In Situ Small-Angle X-ray Scattering Studies During Reversible Addition-Fragmentation Chain Transfer Aqueous Emulsion Polymerization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13664-13675	16.4	57
46	A Single Thermoresponsive Diblock Copolymer Can Form Spheres, Worms or Vesicles in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18964-18970	16.4	48
45	Can percolation theory explain the gelation behavior of diblock copolymer worms?. <i>Chemical Science</i> , 2018 , 9, 7138-7144	9.4	47
44	Critical Dependence of Molecular Weight on Thermoresponsive Behavior of Diblock Copolymer Worm Gels in Aqueous Solution. <i>Macromolecules</i> , 2018 , 51, 8357-8371	5.5	43
43	Model Anionic Block Copolymer Vesicles Provide Important Design Rules for Efficient Nanoparticle Occlusion within Calcite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2557-2567	16.4	42

42	Non-aqueous Isorefractive Pickering Emulsions. <i>Langmuir</i> , 2015 , 31, 4373-6	4	39
41	Long-Term Stability of n-Alkane-in-Water Pickering Nanoemulsions: Effect of Aqueous Solubility of Droplet Phase on Ostwald Ripening. <i>Langmuir</i> , 2018 , 34, 9289-9297	4	38
40	Unique aqueous self-assembly behavior of a thermoresponsive diblock copolymer. <i>Chemical Science</i> , 2020 , 11, 396-402	9.4	37
39	Block Copolymer Nanoparticles Prepared via Polymerization-Induced Self-Assembly Provide Excellent Boundary Lubrication Performance for Next-Generation Ultralow-Viscosity Automotive Engine Oils. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33364-33369	9.5	34
38	RAFT Aqueous Dispersion Polymerization of -(2-(Methacryloyloxy)ethyl)pyrrolidone: A Convenient Low Viscosity Route to High Molecular Weight Water-Soluble Copolymers. <i>Macromolecules</i> , 2016 , 49, 4520-4533	5.5	30
37	Bespoke contrast-matched diblock copolymer nanoparticles enable the rational design of highly transparent Pickering double emulsions. <i>Nanoscale</i> , 2016 , 8, 14497-506	7.7	30
36	Is Carbon Black a Suitable Model Colloidal Substrate for Diesel Soot?. <i>Langmuir</i> , 2015 , 31, 10358-69	4	28
35	Synthesis and pH-responsive dissociation of framboidal ABC triblock copolymer vesicles in aqueous solution. <i>Chemical Science</i> , 2018 , 9, 1454-1463	9.4	28
34	Anionic block copolymer vesicles act as Trojan horses to enable efficient occlusion of guest species into host calcite crystals. <i>Chemical Science</i> , 2018 , 9, 8396-8401	9.4	27
33	Time-Resolved SAXS Studies of the Kinetics of Thermally Triggered Release of Encapsulated Silica Nanoparticles from Block Copolymer Vesicles. <i>Macromolecules</i> , 2017 , 50, 4465-4473	5.5	22
32	What Dictates the Spatial Distribution of Nanoparticles within Calcite?. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2481-2489	16.4	22
31	A Vesicle-to-Worm Transition Provides a New High-Temperature Oil Thickening Mechanism. <i>Angewandte Chemie</i> , 2017 , 129, 1772-1776	3.6	17
30	Synthesis, Characterization, and Pickering Emulsifier Performance of Anisotropic Cross-Linked Block Copolymer Worms: Effect of Aspect Ratio on Emulsion Stability in the Presence of Surfactant. <i>Langmuir</i> , 2019 , 35, 254-265	4	17
29	Thermoreversible crystallization-driven aggregation of diblock copolymer nanoparticles in mineral oil. <i>Chemical Science</i> , 2018 , 9, 4071-4082	9.4	16
28	RAFT dispersion polymerization of glycidyl methacrylate for the synthesis of epoxy-functional block copolymer nanoparticles in mineral oil. <i>Polymer Chemistry</i> , 2019 , 10, 603-611	4.9	15
27	Determination of Effective Particle Density for Sterically Stabilized Carbon Black Particles: Effect of Diblock Copolymer Stabilizer Composition. <i>Langmuir</i> , 2015 , 31, 8764-73	4	12
26	Synthesis of poly(stearyl methacrylate)-poly(2-hydroxypropyl methacrylate) diblock copolymer nanoparticles via RAFT dispersion polymerization of 2-hydroxypropyl methacrylate in mineral oil. <i>Polymer Chemistry</i> , 2020 , 11, 4579-4590	4.9	12
25	Rational synthesis of epoxy-functional spheres, worms and vesicles by RAFT aqueous emulsion polymerisation of glycidyl methacrylate. <i>Polymer Chemistry</i> , 2020 , 11, 6343-6355	4.9	12

24	Synthesis of High Γ Low N Diblock Copolymers by Polymerization-Induced Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10848-10853	16.4	11
23	Self-curing super-stretchable polymer/microgel complex coacervate gels without covalent bond formation. <i>Chemical Science</i> , 2019 , 10, 8832-8839	9.4	11
22	A Single Thermoresponsive Diblock Copolymer Can Form Spheres, Worms or Vesicles in Aqueous Solution. <i>Angewandte Chemie</i> , 2019 , 131, 19140-19146	3.6	11
21	Exploring the Upper Size Limit for Sterically Stabilized Diblock Copolymer Nanoparticles Prepared by Polymerization-Induced Self-Assembly in Non-Polar Media. <i>Langmuir</i> , 2020 , 36, 3730-3736	4	10
20	RAFT polymerisation of renewable terpene (meth)acrylates and the convergent synthesis of methacrylate β crlyate β methacrylate triblock copolymers. <i>Polymer Chemistry</i> , 2021 , 12, 3177-3189	4.9	9
19	Dispersible microporous diblock copolymer nanoparticles via polymerisation-induced self-assembly. <i>Polymer Chemistry</i> , 2019 , 10, 3879-3886	4.9	6
18	Epoxy-functional diblock copolymer spheres, worms and vesicles via polymerization-induced self-assembly in mineral oil. <i>Polymer Chemistry</i> , 2020 , 11, 3332-3339	4.9	6
17	Refractive index matched, nearly hard polymer colloids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180763	2.4	6
16	Tuning the vesicle-to-worm transition for thermoresponsive block copolymer vesicles prepared via polymerisation-induced self-assembly. <i>Polymer Chemistry</i> , 2021 , 12, 1224-1235	4.9	6
15	Synthesis of High Γ ow N Diblock Copolymers by Polymerization-Induced Self-Assembly. <i>Angewandte Chemie</i> , 2020 , 132, 10940-10945	3.6	5
14	Ionic and Nonspherical Polymer Nanoparticles in Nonpolar Solvents. <i>Macromolecules</i> , 2020 , 53, 3148-3155	5	5
13	Exerting Spatial Control During Nanoparticle Occlusion within Calcite Crystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17966-17973	16.4	4
12	Protein-, (Poly)peptide-, and Amino Acid-Based Nanostructures Prepared via Polymerization-Induced Self-Assembly. <i>Polymers</i> , 2021 , 13,	4.5	4
11	Synthesis of Highly Transparent Diblock Copolymer Vesicles via RAFT Dispersion Polymerization of 2,2,2-Trifluoroethyl Methacrylate in β -Alkanes. <i>Macromolecules</i> , 2021 , 54, 1159-1169	5.5	4
10	Spin-echo small-angle neutron scattering (SESANS) studies of diblock copolymer nanoparticles. <i>Soft Matter</i> , 2018 , 15, 17-21	3.6	3
9	Influence of an ionic comonomer on polymerization-induced self-assembly of diblock copolymers in non-polar media. <i>Polymer Chemistry</i> , 2020 , 11, 2605-2614	4.9	3
8	Precise control over supramolecular nanostructures manipulation of H-bonding in β amphiphiles. <i>Nanoscale</i> , 2021 ,	7.7	2
7	Thermally triggerable, anchoring block copolymers for use in aqueous inkjet printing. <i>Polymer Chemistry</i> , 2020 , 11, 2869-2882	4.9	1

6	Porous hollow TiO ₂ microparticles for photocatalysis: exploiting novel ABC triblock terpolymer templates synthesised in supercritical CO ₂ . <i>Polymer Chemistry</i> , 2021 , 12, 2904-2913	4.9	1
5	Shear-induced alignment of block copolymer worms in mineral oil. <i>Soft Matter</i> , 2021 , 17, 8867-8876	3.6	1
4	Tuning the properties of hydrogen-bonded block copolymer worm gels prepared polymerization-induced self-assembly. <i>Chemical Science</i> , 2021 , 12, 12082-12091	9.4	1
3	Heterotelechelic homopolymers mimicking high - ultralow block copolymers with sub-2 nm domain size.. <i>Chemical Science</i> , 2022 , 13, 4019-4028	9.4	1
2	Bromoform-assisted aqueous free radical polymerisation: a simple, inexpensive route for the preparation of block copolymers. <i>Polymer Chemistry</i> ,	4.9	0
1	Exerting Spatial Control During Nanoparticle Occlusion within Calcite Crystals. <i>Angewandte Chemie</i> , 2020 , 132, 18122-18129	3.6	