Matthew Derry

List of Publications by Year
in descending order

60 papers	3,266 citations	172386 29 h-index	149623 56 g-index
63 all docs	63 docs citations	63 times ranked	2115 citing authors

#	Article	IF	Citations
1	Polymerization-induced self-assembly of block copolymer nanoparticles via RAFT non-aqueous dispersion polymerization. Progress in Polymer Science, 2016, 52, 1-18.	11.8	520
2	Thermo-responsive Diblock Copolymer Worm Gels in Non-polar Solvents. Journal of the American Chemical Society, 2014, 136, 5790-5798.	6.6	266
3	RAFT dispersion polymerization in non-polar solvents: facile production of block copolymer spheres, worms and vesicles in n-alkanes. Chemical Science, 2013, 4, 2081.	3.7	259
4	Industrially-relevant polymerization-induced self-assembly formulations in non-polar solvents: RAFT dispersion polymerization of benzyl methacrylate. Polymer Chemistry, 2015, 6, 3054-3062.	1.9	147
5	Using Dynamic Covalent Chemistry To Drive Morphological Transitions: Controlled Release of Encapsulated Nanoparticles from Block Copolymer Vesicles. Journal of the American Chemical Society, 2017, 139, 7616-7623.	6.6	144
6	In situ small-angle X-ray scattering studies of sterically-stabilized diblock copolymer nanoparticles formed during polymerization-induced self-assembly in non-polar media. Chemical Science, 2016, 7, 5078-5090.	3.7	130
7	In Situ Small-Angle X-ray Scattering Studies During Reversible Additionâ€“Fragmentation Chain Transfer Aqueous Emulsion Polymerization. Journal of the American Chemical Society, 2019, 141, 13664-13675.	6.6	109
8	Vermicious thermo-responsive Pickering emulsifiers. Chemical Science, 2015, 6, 4207-4214.	3.7	108
9	A Vesicleâ€toâ€Worm Transition Provides a New Highâ€Temperature Oil Thickening Mechanism. Angewandte Chemie - International Edition, 2017, 56, 1746-1750.	7.2	87
10	Preparation of Pickering Double Emulsions Using Block Copolymer Worms. Langmuir, 2015, 31, 4137-4144.	1.6	86
11	ABC Triblock Copolymer Worms: Synthesis, Characterization, and Evaluation as Pickering Emulsifiers for Millimeter-Sized Droplets. Macromolecules, 2016, 49, 7897-7907.	2.2	79
12	A Single Thermoresponsive Diblock Copolymer Can Form Spheres, Worms or Vesicles in Aqueous Solution. Angewandte Chemie - International Edition, 2019, 58, 18964-18970.	7.2	74
13	Effect of Monomer Solubility on the Evolution of Copolymer Morphology during Polymerization-Induced Self-Assembly in Aqueous Solution. Macromolecules, 2017, 50, 796-802.	2.2	71
14	Can percolation theory explain the gelation behavior of diblock copolymer worms?. Chemical Science, 2018, 9, 7138-7144.	3.7	66
15	Polydimethylsiloxane-Based Diblock Copolymer Nano-objects Prepared in Nonpolar Media via RAFT-Mediated Polymerization-Induced Self-Assembly. Macromolecules, 2015, 48, 3547-3555.	2.2	65
16	Critical Dependence of Molecular Weight on Thermoresponsive Behavior of Diblock Copolymer Worm Gels in Aqueous Solution. Macromolecules, 2018, 51, 8357-8371.	2.2	65
17	Unique aqueous self-assembly behavior of a thermoresponsive diblock copolymer. Chemical Science, 2020, 11, 396-402.	3.7	64
18	Model Anionic Block Copolymer Vesicles Provide Important Design Rules for Efficient Nanoparticle Occlusion within Calcite. Journal of the American Chemical Society, 2019, 141, 2557-2567.	6.6	63

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19	Block Copolymer Nanoparticles Prepared via Polymerization-Induced Self-Assembly Provide Excellent Boundary Lubrication Performance for Next-Generation Ultralow-Viscosity Automotive Engine Oils. ACS Applied Materials & Interfaces, 2019, 11, 33364-33369.	4.0	60
20	Long-Term Stability of <i>n</i>-Alkane-in-Water Pickering Nanoemulsions: Effect of Aqueous Solubility of Droplet Phase on Ostwald Ripening. Langmuir, 2018, 34, 9289-9297.	1.6	55
21	Non-aqueous Isorefractive Pickering Emulsions. Langmuir, 2015, 31, 4373-4376.	1.6	46
22	Is Carbon Black a Suitable Model Colloidal Substrate for Diesel Soot?. Langmuir, 2015, 31, 10358-10369.	1.6	45
23	Synthesis and pH-responsive dissociation of framboidal ABC triblock copolymer vesicles in aqueous solution. Chemical Science, 2018, 9, 1454-1463.	3.7	42
24	Anionic block copolymer vesicles act as Trojan horses to enable efficient occlusion of guest species into host calcite crystals. Chemical Science, 2018, 9, 8396-8401.	3.7	37
25	What Dictates the Spatial Distribution of Nanoparticles within Calcite?. Journal of the American Chemical Society, 2019, 141, 2481-2489.	6.6	37
26	Bespoke contrast-matched diblock copolymer nanoparticles enable the rational design of highly transparent Pickering double emulsions. Nanoscale, 2016, 8, 14497-14506.	2.8	36
27	Synthesis of poly(stearyl methacrylate)-poly(2-hydroxypropyl methacrylate) diblock copolymer nanoparticles <i>via</i> RAFT dispersion polymerization of 2-hydroxypropyl methacrylate in mineral oil. Polymer Chemistry, 2020, 11, 4579-4590.	1.9	34
28	RAFT Aqueous Dispersion Polymerization of <i>N</i>-(2-(Methacryloyloxy)ethyl)pyrrolidone: A Convenient Low Viscosity Route to High Molecular Weight Water-Soluble Copolymers. Macromolecules, 2016, 49, 4520-4533.	2.2	32
29	RAFT dispersion polymerization of glycidyl methacrylate for the synthesis of epoxy-functional block copolymer nanoparticles in mineral oil. Polymer Chemistry, 2019, 10, 603-611.	1.9	31
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. Langmuir, 2019, 35, 254-265.	1.6	31
31	Time-Resolved SAXS Studies of the Kinetics of Thermally Triggered Release of Encapsulated Silica Nanoparticles from Block Copolymer Vesicles. Macromolecules, 2017, 50, 4465-4473.	2.2	30
32	A Vesicleâ€toâ€Worm Transition Provides a New Highâ€Temperature Oil Thickening Mechanism. Angewandte Chemie, 2017, 129, 1772-1776.	1.6	29
33	Rational synthesis of epoxy-functional spheres, worms and vesicles by RAFT aqueous emulsion polymerisation of glycidyl methacrylate. Polymer Chemistry, 2020, 11, 6343-6355.	1.9	25
34	RAFT polymerisation of renewable terpene (meth)acrylates and the convergent synthesis of methacrylateâ€“acrylateâ€“methacrylate triblock copolymers. Polymer Chemistry, 2021, 12, 3177-3189.	1.9	22
35	Exploring the Upper Size Limit for Sterically Stabilized Diblock Copolymer Nanoparticles Prepared by Polymerization-Induced Self-Assembly in Non-Polar Media. Langmuir, 2020, 36, 3730-3736.	1.6	21
36	Thermoreversible crystallization-driven aggregation of diblock copolymer nanoparticles in mineral oil. Chemical Science, 2018, 9, 4071-4082.	3.7	20

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37	Synthesis of High <i>Ï‡</i>â€"Low <i>N</i> Diblock Copolymers by Polymerizationâ€Induced Selfâ€Assembly. Angewandte Chemie - International Edition, 2020, 59, 10848-10853.	7.2	20
38	A Single Thermoresponsive Diblock Copolymer Can Form Spheres, Worms or Vesicles in Aqueous Solution. Angewandte Chemie, 2019, 131, 19140-19146.	1.6	19
39	Epoxy-functional diblock copolymer spheres, worms and vesicles <i>via</i> polymerization-induced self-assembly in mineral oil. Polymer Chemistry, 2020, 11, 3332-3339.	1.9	18
40	Determination of Effective Particle Density for Sterically Stabilized Carbon Black Particles: Effect of Diblock Copolymer Stabilizer Composition. Langmuir, 2015, 31, 8764-8773.	1.6	17
41	Self-curing super-stretchable polymer/microgel complex coacervate gels without covalent bond formation. Chemical Science, 2019, 10, 8832-8839.	3.7	15
42	Tuning the vesicle-to-worm transition for thermoresponsive block copolymer vesicles prepared via polymerisation-induced self-assembly. Polymer Chemistry, 2021, 12, 1224-1235.	1.9	15
43	Synthesis of Highly Transparent Diblock Copolymer Vesicles via RAFT Dispersion Polymerization of 2,2,2-Trifluoroethyl Methacrylate in <i>n</i>-Alkanes. Macromolecules, 2021, 54, 1159-1169.	2.2	14
44	Exerting Spatial Control During Nanoparticle Occlusion within Calcite Crystals. Angewandte Chemie - International Edition, 2020, 59, 17966-17973.	7.2	13
45	Protein-, (Poly)peptide-, and Amino Acid-Based Nanostructures Prepared via Polymerization-Induced Self-Assembly. Polymers, 2021, 13, 2603.	2.0	13
46	Tuning the properties of hydrogen-bonded block copolymer worm gels prepared <i>via</i> polymerization-induced self-assembly. Chemical Science, 2021, 12, 12082-12091.	3.7	11
47	Porous hollow TiO₂microparticles for photocatalysis: exploiting novel ABC triblock terpolymer templates synthesised in supercritical CO₂. Polymer Chemistry, 2021, 12, 2904-2913.	1.9	10
48	Ionic and Nonspherical Polymer Nanoparticles in Nonpolar Solvents. Macromolecules, 2020, 53, 3148-3156.	2.2	9
49	Shear-induced alignment of block copolymer worms in mineral oil. Soft Matter, 2021, 17, 8867-8876.	1.2	8
50	Refractive index matched, nearly hard polymer colloids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180763.	1.0	7
51	Dispersible microporous diblock copolymer nanoparticles <i>via</i> polymerisation-induced self-assembly. Polymer Chemistry, 2019, 10, 3879-3886.	1.9	7
52	Precise control over supramolecular nanostructures<i>via</i>manipulation of H-bonding in Ï€-amphiphiles. Nanoscale, 2021, 13, 20111-20118.	2.8	7
53	Spin-echo small-angle neutron scattering (SESANS) studies of diblock copolymer nanoparticles. Soft Matter, 2019, 15, 17-21.	1.2	6
54	Influence of an ionic comonomer on polymerization-induced self-assembly of diblock copolymers in non-polar media. Polymer Chemistry, 2020, 11, 2605-2614.	1.9	6

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55	Synthesis of High <i>Ï‡</i>â€“Low <i>N</i> Diblock Copolymers by Polymerizationâ€Induced Selfâ€Assembly. Angewandte Chemie, 2020, 132, 10940-10945.	1.6	6
56	Heterotelechelic homopolymers mimicking high <i>Ï‡</i> â€“ ultralow <i>N</i> block copolymers with sub-2 nm domain size. Chemical Science, 2022, 13, 4019-4028.	3.7	4
57	Bromoform-assisted aqueous free radical polymerisation: a simple, inexpensive route for the preparation of block copolymers. Polymer Chemistry, 2021, 12, 4317-4325.	1.9	2
58	Heterogenisation of a carbonylation catalyst on dispersible microporous polymer nanoparticles. Catalysis Science and Technology, 0, , .	2.1	2
59	Thermally triggerable, anchoring block copolymers for use in aqueous inkjet printing. Polymer Chemistry, 2020, 11, 2869-2882.	1.9	1
60	Exerting Spatial Control During Nanoparticle Occlusion within Calcite Crystals. Angewandte Chemie, 2020, 132, 18122-18129.	1.6	0