

Yin Ning Zhou

List of Publications by Year in descending order

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63
papers

2,307
citations

236925

25
h-index

223800

46
g-index

70
all docs

70
docs citations

70
times ranked

2215
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Fiber Membrane for pH-Induced Oil/Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 19643-19650.	8.0	213
2	Polymeric materials with switchable superwettability for controllable oil/water separation: A comprehensive review. Progress in Polymer Science, 2018, 87, 1-33.	24.7	210
3	Role of External Field in Polymerization: Mechanism and Kinetics. Chemical Reviews, 2020, 120, 2950-3048.	47.7	141
4	Let spiropyran help polymers feel force!. Progress in Polymer Science, 2018, 79, 26-39.	24.7	119
5	State-of-the-Art and Progress in Method of Moments for the Model-Based Reversible-Deactivation Radical Polymerization. Macromolecular Reaction Engineering, 2016, 10, 516-534.	1.5	88
6	Electrospun Fibrous Mat with pH-Switchable Superwettability That Can Separate Layered Oil/Water Mixtures. Langmuir, 2016, 32, 13358-13366.	3.5	79
7	Mussel-inspired V-shaped copolymer coating for intelligent oil/water separation. Chemical Engineering Journal, 2017, 322, 693-701.	12.7	72
8	Precision polymer synthesis by controlled radical polymerization: Fusing the progress from polymer chemistry and reaction engineering. Progress in Polymer Science, 2022, 130, 101555.	24.7	71
9	Synthesis of gradient copolymers with simultaneously tailor-made chain composition distribution and glass transition temperature by semibatch ATRP: From modeling to application. Journal of Polymer Science Part A, 2012, 50, 3052-3066.	2.3	61
10	Aqueous Metal-Free Atom Transfer Radical Polymerization: Experiments and Model-Based Approach for Mechanistic Understanding. Macromolecules, 2018, 51, 2367-2376.	4.8	61
11	Poly(ionic liquid)s-based nanocomposite polyelectrolytes with tunable ionic conductivity prepared via SI-ATRP. Polymer Chemistry, 2014, 5, 882-891.	3.9	53
12	A Light and pH Dual-Stimuli-Responsive Block Copolymer Synthesized by Copper(0)-Mediated Living Radical Polymerization: Solvatochromic, Isomerization, and "Schizophrenic" Behaviors. Langmuir, 2014, 30, 1489-1499.	3.5	52
13	Light-Responsive Smart Surface with Controllable Wettability and Excellent Stability. Langmuir, 2014, 30, 12236-12242.	3.5	51
14	PhotoATRP-Based Fluorinated Thermosensitive Block Copolymer for Controllable Water/Oil Separation. Industrial & Engineering Chemistry Research, 2015, 54, 10714-10722.	3.7	48
15	Copper(0)-Mediated Reversible-Deactivation Radical Polymerization: Kinetics Insight and Experimental Study. Macromolecules, 2014, 47, 6218-6229.	4.8	47
16	An old kinetic method for a new polymerization mechanism: Toward photochemically mediated ATRP. AIChE Journal, 2015, 61, 1947-1958.	3.6	47
17	Kinetic Insights into the Iron-Based Electrochemically Mediated Atom Transfer Radical Polymerization of Methyl Methacrylate. Macromolecules, 2016, 49, 4038-4046.	4.8	43
18	Kinetic insight into electrochemically mediated ATRP gained through modeling. AIChE Journal, 2015, 61, 4347-4357.	3.6	41

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19	Thermo-responsive brush copolymers with structure-tunable LCST and switchable surface wettability. <i>Polymer</i> , 2014, 55, 6552-6560.	3.8	40
20	Mechanically Mediated Atom Transfer Radical Polymerization: Exploring Its Potential at High Conversions. <i>Macromolecules</i> , 2018, 51, 6911-6921.	4.8	37
21	Coupled matrix kinetic Monte Carlo simulations applied for advanced understanding of polymer grafting kinetics. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 640-661.	3.7	35
22	Facile synthesis of gradient copolymers via semi-batch copper(0)-mediated living radical copolymerization at ambient temperature. <i>Polymer Chemistry</i> , 2013, 4, 76-84.	3.9	27
23	Photoinduced Iron(III)-Mediated Atom Transfer Radical Polymerization with In Situ Generated Initiator: Mechanism and Kinetics Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10235-10242.	3.7	26
24	Thermal-Responsive Block Copolymers for Surface with Reversible Switchable Wettability. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18112-18120.	3.7	25
25	Synthesis and pH-responsive micellization of brush copolymers poly(methyl methacrylate)- <i>b</i> -poly(2-vinyl pyridine) profile. <i>Soft Matter</i> , 2012, 8, 11051.	2.7	24
26	Experimental and computational investigation of oxidative quenching governed aqueous organocatalyzed atom transfer radical polymerization. <i>Chemical Engineering Journal</i> , 2019, 362, 721-730.	12.7	24
27	Modeling of the Atom Transfer Radical Copolymerization Processes of Methyl Methacrylate and 2-(Trimethylsilyl) Ethyl Methacrylate under Batch, Semibatch, and Continuous Feeding: A Chemical Reactor Engineering Viewpoint. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11873-11883.	3.7	23
28	Network Formation Kinetics of Poly(dimethylsiloxane) Based on Step-Growth Polymerization. <i>Macromolecules</i> , 2021, 54, 7678-7689.	4.8	23
29	Cost-efficient modeling of distributed molar mass and topological variations in graft copolymer synthesis by upgrading the method of moments. <i>AIChE Journal</i> , 2022, 68, .	3.6	23
30	Iron-based electrochemically mediated atom transfer radical polymerization with tunable catalytic activity. <i>AIChE Journal</i> , 2018, 64, 961-969.	3.6	22
31	An intensive green emitting terbium complex using a newly designed aromatic hyperbranched polyester as an efficient antenna ligand. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11620-11630.	5.5	21
32	Electrochemically mediated ATRP process intensified by ionic liquid: ATRP-polymerization of methyl acrylate. <i>Chemical Engineering Journal</i> , 2019, 372, 163-170.	12.7	20
33	Visible-Light-Induced Atom-Transfer-Radical Polymerization with a ppm-Level Iron Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4949-4956.	3.7	19
34	Photoinduced Fe-mediated atom transfer radical polymerization in aqueous media. <i>Polymer Chemistry</i> , 2017, 8, 7360-7368.	3.9	19
35	Bridging principal component analysis and method of moments based parameter estimation for grafting of polybutadiene with styrene. <i>Chemical Engineering Journal</i> , 2021, 425, 130463.	12.7	19
36	Assessment of kinetics of photoinduced Fe-based atom transfer radical polymerization under conditions using modeling approach. <i>AIChE Journal</i> , 2017, 63, 4987-4997.	3.6	18

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37	Mechanistic and kinetic investigation of Cu(II)-catalyzed controlled radical polymerization enabled by ultrasound irradiation. <i>AICHE Journal</i> , 2020, 66, e16746.	3.6	16
38	Fluorinated AB diblock copolymers and their aggregates in organic solvents. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3647-3657.	2.3	15
39	Modeling of the ATRCoP Processes of Methyl Methacrylate and 2-(Trimethylsilyl) Ethyl Methacrylate in Continuous Reactors: From CSTR to PFR. <i>Macromolecular Reaction Engineering</i> , 2015, 9, 418-430.	1.5	15
40	<i>In silico</i> mechanically mediated atom transfer radical polymerization: A detailed kinetic study. <i>AICHE Journal</i> , 2021, 67, e17151.	3.6	14
41	Living Polymer Dispersity Quantification for Nitroxide-Mediated Polymerization Systems by Mimicking a Monodispersed Polymer Blending Strategy. <i>Macromolecules</i> , 2020, 53, 10813-10822.	4.8	13
42	Computer-aided estimation of kinetic rate constant for degradation of volatile organic compounds by hydroxyl radical: An improved model using quantum chemical and norm descriptors. <i>Chemical Engineering Science</i> , 2022, 248, 117244.	3.8	13
43	Kinetic modeling of two-step RAFT process for the production of novel fluorosilicone triblock copolymers. <i>European Polymer Journal</i> , 2010, 46, 2164-2173.	5.4	12
44	Insight into the ATRP rate controlling ability of initiator structure: Micromolecular, macromolecular, and immobilized initiators. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2228-2238.	2.3	12
45	Supervised Machine Learning Algorithms for Predicting Rate Constants of Ozone Reaction with Micropollutants. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8359-8367.	3.7	12
46	Dual-responsive copolymer poly(2,2,3,4,4,4-hexafluorobutyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (methacrylate)-block for surface with tunable wettability. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3868-3877.	2.3	11
47	CO ₂ /N ₂ -Switchable Thermoresponsive Ionic Liquid Copolymer. <i>Macromolecules</i> , 2017, 50, 8378-8389.	4.8	11
48	Kinetic features of iron-based electrochemically mediated ATRP revealed by Monte Carlo simulation. <i>AICHE Journal</i> , 2021, 67, e17098.	3.6	11
49	Sensitivity analysis of isothermal free radical induced grafting through application of the distribution - Numerical fractionation - Method of moments. <i>Chemical Engineering Journal</i> , 2022, 444, 136595.	12.7	11
50	Double-external field enables bulk controlled radical polymerization with narrow molecular weight distribution at high conversion. <i>AICHE Journal</i> , 2020, 66, e16245.	3.6	10
51	Solothermal synthesis of covalent triazine framework and its application in photodegradation of organic dyes. <i>Materials Today Chemistry</i> , 2021, 20, 100475.	3.5	10
52	The synthesis and enhancement of the surface properties of polyfluorene-based photoelectric materials by introducing fluoromonomers. <i>RSC Advances</i> , 2013, 3, 5045.	3.6	8
53	Kinetic modeling of atom transfer radical copolymerization of methyl methacrylate and 2-(trimethylsilyl) ethyl methacrylate in a train of continuous stirred-tank reactors. <i>Polymer Engineering and Science</i> , 2015, 55, 1030-1038.	3.1	7
54	A Tandem Controlled Radical Polymerization Technique for the Synthesis of Poly(4-vinylpyridine) Block Copolymers: Successive ATRP, SET-NC, and NMP. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 329-333.	2.2	7

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55	A polyelectrolyte-containing copolymer with a gas-switchable lower critical solution temperature-type phase transition. <i>Polymer Chemistry</i> , 2019, 10, 260-266.	3.9	7
56	Deterministic modeling of non-adiabatic solution radical polymerization of n-butyl acrylate in light of runaway prevention. <i>Chemical Engineering Journal</i> , 2022, 450, 138110.	12.7	7
57	Synthesis and characterization of polyfluorene-based photoelectric materials: the effect of coil segment on the spectral stability. <i>RSC Advances</i> , 2014, 4, 19869-19877.	3.6	5
58	Kinetic Study on Ultraviolet Light-Induced Solution Atom Transfer Radical Polymerization of Methyl Acrylate Using TiO_2 . <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13870-13878.	3.7	5
59	Enhanced understanding and implementation of the self-assembly of fluorosilicone double-hydrophobic diblock copolymers in dilute solutions from thermodynamic perspective: The effect of different preparation factors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 990-999.	4.7	4
60	Modeling of the atom transfer radical polymerization for preparing novel fluorosilicone diblock copolymers in a semi-batch reactor. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3473-3481.	2.6	4
61	Porous PS- and PMMA-based polymeric monoliths prepared by PEO-PS block copolymers stabilized High internal phase emulsion templates. <i>Materials Today Communications</i> , 2021, 26, 101962.	1.9	4
62	Hydrophilic macroporous monoliths with tunable water uptake capacity fabricated by $\langle scp \rangle$ water-in-oil high internal phase emulsion templating. <i>Journal of Polymer Science</i> , 0, , .	3.8	4
63	Engineering bicontinuous polymeric monoliths through high internal phase emulsion templating. <i>Materials Today Communications</i> , 2020, 22, 100813.	1.9	1