

Jianan Zhang

List of Publications by Year in descending order

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61
papers

1,210
citations

304743

22
h-index

414414

32
g-index

63
all docs

63
docs citations

63
times ranked

1804
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced Fe-Based Atom Transfer Radical Polymerization in the Absence of Additional Ligands, Reducing Agents, and Radical Initiators. <i>Macromolecules</i> , 2015, 48, 6948-6954.	4.8	98
2	Facile Aqueous Route to Nitrogen-Doped Mesoporous Carbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 12931-12934.	13.7	86
3	Life cycle assessment of power-generation systems based on biomass integrated gasification combined cycles. <i>Renewable Energy</i> , 2020, 149, 336-346.	8.9	73
4	A Fatty Acid-Inspired Tetherable Initiator for Surface-Initiated Atom Transfer Radical Polymerization. <i>Chemistry of Materials</i> , 2017, 29, 4963-4969.	6.7	55
5	Anionic poly (lactic acid)-polyurethane micelles as potential biodegradable drug delivery carriers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 337, 200-204.	4.7	48
6	SiO ₂ /Polymer Hybrid Hollow Microspheres via Double in Situ Miniemulsion Polymerization. <i>Macromolecules</i> , 2010, 43, 1188-1190.	4.8	45
7	Hybrid hollow microspheres templated from double Pickering emulsions. <i>Chemical Communications</i> , 2010, 46, 4318.	4.1	37
8	Superhydrophobic/Superoleophilic Cotton for Efficient Oil-Water Separation Based on the Combined Octadecanoyl Chain Bonding and Polymer Grafting via Surface-Initiated ATRP. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2875-2882.	4.4	37
9	Preparation and characterization of polymer/silica nanocomposites via double in situ miniemulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3128-3134.	2.3	30
10	Polymer ligand-induced autonomous sorting and reversible phase separation in binary particle blends. <i>Science Advances</i> , 2016, 2, e1601484.	10.3	30
11	Thermomechanical Properties and Glass Dynamics of Polymer-Tethered Colloidal Particles and Films. <i>Macromolecules</i> , 2017, 50, 8658-8669.	4.8	30
12	ZnO/carbon hybrids derived from polymer nanocomposite precursor materials for pseudocapacitor electrodes with high cycling stability. <i>Polymer</i> , 2018, 137, 370-377.	3.8	29
13	Crude glycerol and glycerol as fuels and fuel additives in combustion applications. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 159, 112206.	16.4	29
14	Fabrication of robust superhydrophobic filter paper for oil/water separation based on the combined octadecanoyl chain bonding and polymer grafting via surface-initiated ATRP. <i>Cellulose</i> , 2020, 27, 469-480.	4.9	28
15	Molecular Parameters Governing the Elastic Properties of Brush Particle Films. <i>Macromolecules</i> , 2020, 53, 1502-1513.	4.8	28
16	Continuous purification of simulated wastewater based on rice straw composites for oil/water separation and removal of heavy metal ions. <i>Cellulose</i> , 2020, 27, 5223-5239.	4.9	28
17	Unexpectedly High Adsorption Capacity of Esterified Hydroxyapatite for Heavy Metal Removal. <i>Langmuir</i> , 2019, 35, 16111-16119.	3.5	26
18	Vanillic Acid as a New Skeleton for Formulating a Biobased Plasticizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15322-15330.	6.7	25

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19	Facile fabrication of free-standing colloidal-crystal films by interfacial self-assembly. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 16-21.	9.4	24
20	Facile fabrication of Janus magnetic microcapsules via double in situ miniemulsion polymerization. <i>Polymer Chemistry</i> , 2013, 4, 1459-1466.	3.9	23
21	High retention rate NCA cathode powders from spray drying and flame assisted spray pyrolysis using glycerol as the solvent. <i>Powder Technology</i> , 2020, 363, 1-6.	4.2	23
22	Techno-economic analysis of cathode material production using flame-assisted spray pyrolysis. <i>Energy</i> , 2021, 218, 119504.	8.8	23
23	Photocatalytic Active Mesoporous Carbon/ZnO Hybrid Materials from Block Copolymer Tethered ZnO Nanocrystals. <i>Langmuir</i> , 2017, 33, 12276-12284.	3.5	22
24	Influence of Spacers in Tetherable Initiators on Surface-Initiated Atom Transfer Radical Polymerization (SI-ATRP). <i>Macromolecules</i> , 2016, 49, 9283-9286.	4.8	21
25	Organosilica with Grafted Polyacrylonitrile Brushes for High Surface Area Nitrogen-Enriched Nanoporous Carbons. <i>Chemistry of Materials</i> , 2018, 30, 2208-2212.	6.7	21
26	Robust and durable polymer grafted cotton fabrics for sequential oil/water separation and heavy metal ions removal based on surface initiated ATRP. <i>Polymer</i> , 2020, 210, 123002.	3.8	21
27	Individual Nanoporous Carbon Spheres with High Nitrogen Content from Polyacrylonitrile Nanoparticles with Sacrificial Protective Layers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37804-37812.	8.0	19
28	Biobased Plasticizers from Tartaric Acid: Synthesis and Effect of Alkyl Chain Length on the Properties of Poly(vinyl chloride). <i>ACS Omega</i> , 2021, 6, 13161-13169.	3.5	19
29	Colloidal silver deposition onto functionalized polystyrene microspheres. <i>Polymer Chemistry</i> , 2011, 2, 970.	3.9	18
30	Large-scale synthesis and characterization of magnetic poly(acrylic acid) nanogels via miniemulsion polymerization. <i>RSC Advances</i> , 2015, 5, 58889-58894.	3.6	13
31	Direct bromination of nano hydroxyapatite strategy towards particle brushes via surface-initiated ATRP for highly efficient heavy metal removal. <i>Polymer</i> , 2019, 183, 121883.	3.8	13
32	Aqueous cellulose solution assisted direct exfoliation of graphite to high concentration graphene dispersion. <i>Materials Letters</i> , 2021, 285, 129081.	2.6	13
33	Facile Fabrication of Inorganic/Polymer Janus Microspheres by Miniemulsion Polymerization. <i>Chemistry Letters</i> , 2010, 39, 206-207.	1.3	12
34	Facile fabrication of poly(acrylic acid) hollow nanogels via in situ Pickering miniemulsion polymerization. <i>Polymer Chemistry</i> , 2015, 6, 6125-6128.	3.9	12
35	One-Step Production of Amine-Functionalized Hollow Mesoporous Silica Microspheres via Phase Separation-Induced Cavity in Miniemulsion System for Opaque and Matting Coating. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 723-731.	3.7	12
36	Facile fabrication of flower-like nanocomposite microparticles via seeded miniemulsion polymerization. <i>Polymer Chemistry</i> , 2012, 3, 2011.	3.9	11

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37	Synthesis and characterization of gibbsite nanoplatelet brushes by surface-initiated atom transfer radical polymerization. <i>Polymer</i> , 2017, 126, 126-132.	3.8	11
38	Synthesis and multi-responsiveness of poly(N-vinylcaprolactam-co-acrylic acid) core-shell microgels via miniemulsion polymerization. <i>Polymer Chemistry</i> , 2016, 7, 4106-4111.	3.9	10
39	Facile fabrication of double-shelled hollow microspheres via double in situ miniemulsion polymerization. <i>Polymer Chemistry</i> , 2012, 3, 2720.	3.9	9
40	Nanoimprint Directed Assembly of Associating Polymer-Grafted Nanoparticles for Polymer Thin Films with Enhanced Stability. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3242-3252.	4.4	9
41	A scalable approach of using biomass derived glycerol to synthesize cathode materials for lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2020, 271, 122518.	9.3	9
42	Sprayable, durable, and superhydrophobic coating of silica particle brushes based on octadecyl bonding and polymer grafting via surface-initiated ATRP for efficient oil/water separation. <i>European Polymer Journal</i> , 2021, 159, 110729.	5.4	8
43	Accelerated synthesis of Li(Ni _{0.8} Co _{0.1} Mn _{0.1})O ₂ cathode materials using flame-assisted spray pyrolysis and additives. <i>Journal of Power Sources</i> , 2022, 528, 231244.	7.8	8
44	Facile Fabrication of Hybrid Hollow Microspheres via in Situ Pickering Miniemulsion Polymerization. <i>Chemistry Letters</i> , 2012, 41, 970-971.	1.3	7
45	Facile fabrication of magnetic hybrid-shell microcapsule via miniemulsion polymerization. <i>Materials Letters</i> , 2014, 114, 60-62.	2.6	7
46	Nano-Hydroxyapatite Particle Brushes via Direct Initiator Tethering and Surface-Initiated Atom Transfer Radical Polymerization for Dual Responsive Pickering Emulsion. <i>Langmuir</i> , 2020, 36, 1192-1200.	3.5	7
47	Raspberry-like nanocomposite microsphere via Double In situ miniemulsion polymerization using interfacial redox initiator system. <i>Macromolecular Research</i> , 2013, 21, 123-126.	2.4	6
48	Internal Microstructure Dictates Interactions of Polymer-grafted Nanoparticles in Solution. <i>Macromolecules</i> , 2021, 54, 7234-7243.	4.8	6
49	Poly(tannin urethane)-Stabilized Multiwalled Carbon Nanotube Aqueous Dispersion for Antistatic Coating. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12353-12361.	3.7	6
50	Facile fabrication and catalytic property of flower-like silver nanoparticles. <i>Micro and Nano Letters</i> , 2012, 7, 370.	1.3	4
51	Nanoscale Pattern Decay Monitored Line by Line via In Situ Heated Atomic Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15943-15950.	8.0	4
52	Preparation of magnetic poly(vinyl alcohol) microspheres via inverse miniemulsion technique. <i>Materials Letters</i> , 2012, 79, 222-224.	2.6	3
53	Ag/Polystyrene Hollow Microspheres from Surface-Functional Colloidal Particles via Double In Situ Miniemulsion Polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3238-3241.	0.9	3
54	Clean Poultry Energy System Design Based on Biomass Gasification Technology: Thermodynamic and Economic Analysis. <i>Energies</i> , 2019, 12, 4235.	3.1	3

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55	Enhanced resistance to decay of imprinted nanopatterns in thin films by bare nanoparticles compared to polymer-grafted nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 5348-5354.	4.6	3
56	Morphology library of nanosilica based on a thermally induced deformable template. <i>Chemical Communications</i> , 2022, 58, 443-446.	4.1	2
57	Preparation and Application of Functional Inorganic/Polymer Hollow Microspheres Via Double In Situ Mini-Emulsion Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015, 52, 387-393.	2.2	1
58	Facile interfacial synthesis of silica/titania mesoporous microcapsules via in situ miniemulsification process. <i>Micro and Nano Letters</i> , 2015, 10, 375-377.	1.3	1
59	Large scale synthesis of nitrogen-doped nanoporous carbon spheres based on miniemulsion polymerization for efficient dye removal. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	1
60	Polymer grafted gibbsite nanoplatelets via direct initiator tethering and surface-initiated atom transfer radical polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 0, , 1-7.	2.2	0
61	Preparation and Characterization of Magnetic SiO ₂ /PSt Hollow Composite Microspheres via Miniemulsion Polymerization. <i>Acta Chimica Sinica</i> , 2013, 71, 392.	1.4	0