

Qiang Fu

List of Publications by Year in descending order

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123
papers

6,379
citations

53751

45
h-index

74108

75
g-index

126
all docs

126
docs citations

126
times ranked

6320
citing authors

#	ARTICLE	IF	CITATIONS
1	Star Polymers. <i>Chemical Reviews</i> , 2016, 116, 6743-6836.	23.0	653
2	Visible Light Mediated Controlled Radical Polymerization in the Absence of Exogenous Radical Sources or Catalysts. <i>Macromolecules</i> , 2015, 48, 3864-3872.	2.2	260
3	Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization. <i>Advanced Science</i> , 2016, 3, 1500394.	5.6	249
4	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO ₂ capture. <i>Journal of Membrane Science</i> , 2019, 572, 38-60.	4.1	210
5	MOF-Mediated Destruction of Cancer Using the Cell's Own Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33599-33608.	4.0	146
6	Cyclodextrin-Based Supramolecular Assemblies and Hydrogels: Recent Advances and Future Perspectives. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1166-1184.	2.0	142
7	One-Pot Synthesis of ABC Type Triblock Copolymers via a Combination of "Click Chemistry" and Atom Transfer Nitroxide Radical Coupling Chemistry. <i>Macromolecules</i> , 2008, 41, 4127-4135.	2.2	141
8	Sono-RAFT Polymerization in Aqueous Medium. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12302-12306.	7.2	139
9	Progress and Perspectives Beyond Traditional RAFT Polymerization. <i>Advanced Science</i> , 2020, 7, 2001656.	5.6	139
10	Continuous assembly of a polymer on a metal-organic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. <i>Energy and Environmental Science</i> , 2018, 11, 544-550.	15.6	125
11	Synthesis of Amphiphilic Macrocyclic Graft Copolymer Consisting of a Poly(ethylene oxide) Ring and Multi-Polystyrene Lateral Chains. <i>Macromolecules</i> , 2006, 39, 5190-5193.	2.2	120
12	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. <i>ACS Nano</i> , 2018, 12, 11591-11599.	7.3	118
13	Two-dimensional nanosheet-based gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23169-23196.	5.2	109
14	Trithiocarbonates as intrinsic photoredox catalysts and RAFT agents for oxygen tolerant controlled radical polymerization. <i>Polymer Chemistry</i> , 2017, 8, 1519-1526.	1.9	108
15	Development of a Robust PET-RAFT Polymerization Using Graphitic Carbon Nitride (g-C ₃ N ₄). <i>Macromolecules</i> , 2017, 50, 7509-7516.	2.2	108
16	A New Strategy for Preparation of Graft Copolymers via "Graft onto" by Atom Transfer Nitroxide Radical Coupling Chemistry: Preparation of Poly(4-glycidyoxy-2,2,6,6-tetramethylpiperidine-1-oxyl-co-ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1372d (oxide) graft	3.2	107
17	Investigation into the photolytic stability of RAFT agents and the implications for photopolymerization reactions. <i>Polymer Chemistry</i> , 2016, 7, 4246-4253.	1.9	105
18	Controlled Formation of Star Polymer Nanoparticles via Visible Light Photopolymerization. <i>ACS Macro Letters</i> , 2015, 4, 1012-1016.	2.3	95

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19	A novel cross-linked nano-coating for carbon dioxide capture. <i>Energy and Environmental Science</i> , 2016, 9, 434-440.	15.6	92
20	Size-specified graphene oxide sheets: ultrasonication assisted preparation and characterization. <i>Journal of Materials Science</i> , 2014, 49, 1785-1793.	1.7	90
21	Synthesis of well dispersed polymer grafted metal-organic framework nanoparticles. <i>Chemical Communications</i> , 2015, 51, 15566-15569.	2.2	81
22	CO ₂ separation using surface-functionalized SiO ₂ nanoparticles incorporated ultra-thin film composite mixed matrix membranes for post-combustion carbon capture. <i>Journal of Membrane Science</i> , 2016, 515, 54-62.	4.1	81
23	One-pot preparation of 3-arm star terpolymers via click chemistry and atom transfer nitroxide radical coupling reaction. <i>Journal of Polymer Science Part A</i> , 2009, 47, 986-990.	2.5	79
24	From UV to NIR: A Full-Spectrum Metal-Free Photocatalyst for Efficient Polymer Synthesis in Aqueous Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21392-21396.	7.2	78
25	High-throughput CO ₂ capture using PIM-1@MOF based thin film composite membranes. <i>Chemical Engineering Journal</i> , 2020, 396, 125328.	6.6	78
26	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. <i>Journal of Membrane Science</i> , 2017, 535, 350-356.	4.1	75
27	Soft polymeric nanoparticle additives for next generation gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4999.	5.2	71
28	Single-Electron-Transfer Nitroxide-Radical-Coupling Reaction at Ambient Temperature: Application in the Synthesis of Block Copolymers. <i>Macromolecules</i> , 2009, 42, 4381-4383.	2.2	70
29	Tertiary amine catalyzed photo-induced controlled radical polymerization of methacrylates. <i>Polymer Chemistry</i> , 2015, 6, 5362-5368.	1.9	67
30	Highly permeable membrane materials for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13769.	5.2	64
31	Development of novel fluorinated additives for high performance CO ₂ separation thin-film composite membranes. <i>Journal of Membrane Science</i> , 2016, 499, 191-200.	4.1	63
32	Ultra-thin film composite mixed matrix membranes incorporating iron(III)-dopamine nanoparticles for CO ₂ separation. <i>Nanoscale</i> , 2016, 8, 8312-8323.	2.8	62
33	Polypeptide-Based Macroporous Cryogels with Inherent Antimicrobial Properties: The Importance of a Macroporous Structure. <i>ACS Macro Letters</i> , 2016, 5, 552-557.	2.3	61
34	Blood-Catalyzed RAFT Polymerization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10288-10292.	7.2	60
35	Postcombustion Carbon Capture Using Thin-Film Composite Membranes. <i>Accounts of Chemical Research</i> , 2019, 52, 1905-1914.	7.6	60
36	One-pot synthesis of heterograft copolymers via graft onto by atom transfer nitroxide radical coupling chemistry. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6770-6779.	2.5	53

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37	Cyclodextrin-based supramolecular polymeric nanoparticles for next generation gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14876-14886.	5.2	53
38	Fentonâ€RRAFT Polymerization: An â€œOnâ€Demandâ€Chainâ€Growth Method. <i>Chemistry - A European Journal</i> , 2017, 23, 7221-7226.	1.7	51
39	Magnet-induced aligning magnetorheological elastomer based on ultra-soft matrix. <i>Composites Science and Technology</i> , 2018, 162, 170-179.	3.8	51
40	The effect of soft nanoparticles morphologies on thin film composite membrane performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17751-17756.	5.2	50
41	Synthesis of Janus POSS star polymer and exploring its compatibilization behavior for PLLA/PCL polymer blends. <i>Polymer</i> , 2018, 136, 84-91.	1.8	50
42	MOF Scaffold for a Highâ€Performance Mixedâ€Matrix Membrane. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8597-8602.	7.2	50
43	Spider-silk inspired polymeric networks by harnessing the mechanical potential of Î²-sheets through network guided assembly. <i>Nature Communications</i> , 2020, 11, 1630.	5.8	49
44	Cisplatin-Induced Formation of Biocompatible and Biodegradable Polypeptide-Based Vesicles for Targeted Anticancer Drug Delivery. <i>Biomacromolecules</i> , 2015, 16, 2463-2474.	2.6	48
45	Metal organic framework enhanced SPEEK/SPSF heterogeneous membrane for ion transport and energy conversion. <i>Nano Energy</i> , 2021, 81, 105657.	8.2	47
46	Synthesis and self-assembly morphologies of amphiphilic multiblock copolymers [poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Science Part A, 2006, 44, 6071-6082.	2.5	45
47	Synthesis of novel cylindrical bottlebrush polypseudorotaxane via inclusion complexation of high density poly(Î¼-caprolactone) bottlebrush polymer and Î±-cyclodextrins. <i>Polymer Chemistry</i> , 2012, 3, 343-351.	1.9	45
48	The use of reduced copper metalâ€organic frameworks to facilitate CuAAC click chemistry. <i>Chemical Communications</i> , 2016, 52, 12226-12229.	2.2	44
49	Superhydrophobic Surface Based on Assembly of Nanoparticles for Application in Anti-Icing under Ultralow Temperature. <i>ACS Applied Nano Materials</i> , 2020, 3, 2047-2057.	2.4	44
50	Organic Catalyst-Mediated Ring-Opening Polymerization for the Highly Efficient Synthesis of Polyester-Based Star Polymers. <i>ACS Macro Letters</i> , 2012, 1, 681-686.	2.3	43
51	Novel drug carriers: from grafted polymers to cross-linked vesicles. <i>Chemical Communications</i> , 2013, 49, 33-35.	2.2	43
52	Fentonâ€Chemistryâ€Mediated Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900220.	2.0	40
53	Synthesis of a thermoresponsive shell-crosslinked 3-layer onion-like polymer particle with a hyperbranched polyglycerol core. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5652-5660.	2.5	38
54	Heterogeneously Catalyzed Fenton-Reversible Additionâ€Fragmentation Chain Transfer Polymerization in the Presence of Air. <i>Macromolecules</i> , 2019, 52, 3278-3287.	2.2	36

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55	Synthesis of amphiphilic hyperbranched polyglycerol polymers and their application as template for size control of gold nanoparticles. <i>Journal of Applied Polymer Science</i> , 2006, 101, 509-514.	1.3	35
56	Highly Efficient and Versatile Formation of Biocompatible Star Polymers in Pure Water and Their Stimuli-Responsive Self-Assembly. <i>Macromolecules</i> , 2014, 47, 7869-7877.	2.2	34
57	Polyimide polydimethylsiloxane triblock copolymers for thin film composite gas separation membranes. <i>Journal of Polymer Science Part A</i> , 2014, 52, 3372-3382.	2.5	34
58	High area energy density of all-solid-state supercapacitor based on double-network hydrogel with high content of graphene/PANI fiber. <i>Chemical Engineering Journal</i> , 2022, 430, 133045.	6.6	34
59	A rapid and facile preparation of novel macroporous silicone-based cryogels via photo-induced thiol-ene click chemistry. <i>Chemical Communications</i> , 2015, 51, 17479-17482.	2.2	33
60	A novel solid state photocatalyst for living radical polymerization under UV irradiation. <i>Scientific Reports</i> , 2016, 6, 20779.	1.6	33
61	Thin film composite membranes for postcombustion carbon capture: Polymers and beyond. <i>Progress in Polymer Science</i> , 2022, 126, 101504.	11.8	32
62	High-performance thin film composite membranes with well-defined poly(dimethylsiloxane)- <i>b</i> -poly(ethylene glycol) copolymer additives for CO ₂ separation. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1500-1511.	2.5	31
63	Investigation of nitroxide radical coupling reaction in wide temperature range and different catalyst system. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2991-2999.	2.5	28
64	Synthesis of perfectly alternating copolymers for polymers of intrinsic microporosity. <i>Polymer Chemistry</i> , 2015, 6, 5003-5008.	1.9	28
65	Direct-ink-writing (DIW) 3D printing functional composite materials based on supra-molecular interaction. <i>Composites Science and Technology</i> , 2021, 215, 109013.	3.8	28
66	An environmentally friendly and fast approach to prepare reduced graphite oxide with water and organic solvents solubility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 171-176.	2.5	27
67	Blends of Fluorinated Additives with Highly Selective Thin-Film Composite Membranes to Increase CO ₂ Permeability for CO ₂ /N ₂ Gas Separation Applications. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8364-8372.	1.8	27
68	Diverse approaches to star polymers via cationic and radical RAFT cross-linking reactions using mechanistic transformation. <i>Polymer Chemistry</i> , 2017, 8, 5972-5981.	1.9	27
69	Ultraparpermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021, 7, 671-680.	5.3	27
70	DIW 3D printing of hybrid magnetorheological materials for application in soft robotic grippers. <i>Composites Science and Technology</i> , 2022, 223, 109409.	3.8	27
71	Sol-gel synthesis of ternary conducting polymer hydrogel for application in all-solid-state flexible supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6103-6115.	3.8	26
72	Degradable cross-linked polymer vesicles for the efficient delivery of platinum drugs. <i>Polymer Chemistry</i> , 2015, 6, 35-43.	1.9	25

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73	In situ ultrathin silica layer formation on polyamide thin-film composite membrane surface for enhanced forward osmosis performances. <i>Journal of Membrane Science</i> , 2021, 620, 118876.	4.1	25
74	Green preparation and enhanced gas barrier property of rubber nanocomposite film based on graphene oxide-induced chemical crosslinking. <i>Polymer</i> , 2021, 225, 123756.	1.8	25
75	Fractionation of graphene oxide single nano-sheets in water-glycerol solutions using gradient centrifugation. <i>Carbon</i> , 2016, 103, 363-371.	5.4	24
76	Observed Photoenhancement of RAFT Polymerizations under Fume Hood Lighting. <i>ACS Macro Letters</i> , 2016, 5, 1287-1292.	2.3	23
77	Sono-RAFT Polymerization in Aqueous Medium. <i>Angewandte Chemie</i> , 2017, 129, 12470-12474.	1.6	23
78	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie</i> , 2018, 130, 8733-8738.	1.6	22
79	Reduced administration frequency for the treatment of fungal keratitis: a sustained natamycin release from a micellar solution. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 407-421.	2.4	22
80	Ultralow Icing Adhesion of a Superhydrophobic Coating Based on the Synergistic Effect of Soft and Stiff Particles. <i>Langmuir</i> , 2021, 37, 12016-12026.	1.6	21
81	Recent developments of hydrogel based solar water purification technology. <i>Materials Advances</i> , 2022, 3, 1322-1340.	2.6	21
82	Photocontrolled Cargo Release from Dual Cross-Linked Polymer Particles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6219-6228.	4.0	20
83	Antifogging Surface Facilitated by Nanoscale Coatings with Controllable Hydrophobicity and Cross-Linking Density. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600199.	1.7	20
84	Controlled RAFT polymerization facilitated by a nanostructured enzyme mimic. <i>Polymer Chemistry</i> , 2018, 9, 4448-4454.	1.9	20
85	Recent Development of Atmospheric Water Harvesting Materials: A Review. <i>ACS Materials Au</i> , 2022, 2, 576-595.	2.6	19
86	Miktoarm Star Polymers: Synthesis and Applications. <i>Chemistry of Materials</i> , 2022, 34, 6188-6209.	3.2	19
87	Synthesis of poly(ethylene oxide) with pending 2,2,6,6-tetramethylpiperidine-1-oxyl groups and its further initiation of the grafting polymerization of styrene. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3836-3842.	2.5	18
88	The effect of acrylamide-co-vinylpyrrolidinone copolymer on the depression of talc in mixed nickel mineral flotation. <i>Minerals Engineering</i> , 2011, 24, 449-454.	1.8	18
89	Stereoregular High-Density Bottlebrush Polymer and Its Organic Nanocrystal Stereocomplex through Triple-Helix Formation. <i>Macromolecules</i> , 2016, 49, 788-795.	2.2	16
90	Facile synthesis and anti-icing performance of superhydrophobic flower-like OTS-SiO ₂ with tunable size. <i>Advanced Powder Technology</i> , 2020, 31, 4533-4540.	2.0	16

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91	Tunable Size of Hierarchically Porous Alumina Ceramics Based on DIW 3D Printing Supramolecular Gel. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10998-11005.	4.0	16
92	Synthesis of a thioether modified hyperbranched polyglycerol and its template effect on fabrication of CdS and CdSe nanoparticles. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3679-3684.	1.3	15
93	Improved Fenton Therapy Using Cancer Cell Hydrogen Peroxide. <i>Australian Journal of Chemistry</i> , 2018, 71, 826.	0.5	15
94	Blood- Catalyzed RAFT Polymerization. <i>Angewandte Chemie</i> , 2018, 130, 10445-10449.	1.6	15
95	Growing Patterned, Cross-linked Nanoscale Polymer Films from Organic and Inorganic Surfaces Using Ring-Opening Metathesis Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4041-4051.	4.0	15
96	Synthesis and evaluation of cationic polyacrylamide and polyacrylate flocculants for harvesting freshwater and marine microalgae. <i>Chemical Engineering Journal</i> , 2022, 433, 133623.	6.6	14
97	Azobenzene-Functionalised Core Cross-Linked Star Polymers and their Host-Guest Interactions. <i>Australian Journal of Chemistry</i> , 2014, 67, 173.	0.5	13
98	Soft nanoparticles assembled from linear poly(ethylene glycol) and linear brush polydimethylsiloxane diblock copolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1251-1262.	2.5	13
99	Shear-induced alignment in 3D-printed nitrile rubber-reinforced glass fiber composites. <i>Composites Part B: Engineering</i> , 2022, 229, 109479.	5.9	13
100	Synthesis of Novel Core Cross-Linked Star-Based Polyrotaxane End-Capped via CuAAC-Click Chemistry. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2109-2114.	2.0	12
101	Fabrication of ultra-thin polyrotaxane-based films via solid-state continuous assembly of polymers. <i>Chemical Communications</i> , 2015, 51, 2025-2028.	2.2	12
102	Biomethane production from anaerobic co-digestion and steel-making slag: A new waste-to-resource pathway. <i>Science of the Total Environment</i> , 2020, 738, 139764.	3.9	12
103	Continuous assembly of polymers via solid phase reactions. <i>Chemical Science</i> , 2014, 5, 3374-3380.	3.7	11
104	Redox-Initiated Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. <i>Australian Journal of Chemistry</i> , 2019, 72, 479.	0.5	11
105	Physical Aging Investigations of a Spiroindane-Locked Polymer of Intrinsic Microporosity. , 2020, 2, 993-998.		11
106	A flexible supercapacitor with high capacitance retention at an ultra-low temperature of -65.0°C. <i>Electrochimica Acta</i> , 2022, 424, 140644.	2.6	11
107	From UV to NIR: A Full-Spectrum Metal-Free Photocatalyst for Efficient Polymer Synthesis in Aqueous Conditions. <i>Angewandte Chemie</i> , 2020, 132, 21576-21580.	1.6	10
108	A green and facile fabrication of rGO/FEVE nanocomposite coating for anti-corrosion application. <i>Materials Chemistry and Physics</i> , 2021, 263, 124382.	2.0	8

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109	Polyrotaxane-based thin film composite membranes for enhanced nanofiltration performance. Separation and Purification Technology, 2020, 246, 116893.	3.9	7
110	Facile preparation of robust superhydrophobic surface based on multi-scales nanoparticle. Polymer Engineering and Science, 2020, 60, 1785-1794.	1.5	6
111	Spatial-controlled nanoengineered films prepared via rapid catalyst induced cross-linking. Polymer Chemistry, 2016, 7, 3251-3258.	1.9	5
112	Controlled Polymerization: Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization (Adv. Sci. 9/2016). Advanced Science, 2016, 3, .	5.6	5
113	Superhydrophobic surface based on nano-engineering for enhancing the durability of anticorrosion. Surface Engineering, 2021, 37, 288-298.	1.1	5
114	Magneto-resistive micro-displacement sensor based on magnetorheological fluid. Smart Materials and Structures, 2021, 30, 045025.	1.8	5
115	Dynamic Performance of Duolayers at the Air/Water Interface. 1. Experimental Analysis. Journal of Physical Chemistry B, 2014, 118, 10919-10926.	1.2	4
116	Facile synthesis of highly efficient photocatalysts based on organic small molecular co-catalyst. Applied Surface Science, 2019, 469, 553-563.	3.1	4
117	Amphiphilic Core Cross-Linked Star Polymers for the Delivery of Hydrophilic Drugs from Hydrophobic Matrices. Biomacromolecules, 2021, 22, 2554-2562.	2.6	4
118	A Simple Way for Synthesis of Alkyne-telechelic Poly(methyl methacrylate) via Single Electron Transfer Radical Coupling Reaction. Chinese Journal of Chemistry, 2010, 28, 1327-1330.	2.6	3
119	Tunable d-spacing of dry reduced graphene oxide nanosheets for enhancing re-dispersibility in organic solvents. Applied Surface Science, 2020, 531, 147375.	3.1	3
120	Triplet Fusion Upconversion with Oxygen Resistance in Aqueous Media. Analytical Chemistry, 2021, 93, 4641-4646.	3.2	2
121	Ultra-high stability and magnetic response of magnetorheological fluids based on magnetic ionic liquids and carbonyl iron fibers. Journal of Rheology, 2021, 65, 1347-1359.	1.3	2
122	In situ synthesis of metal-free N-GQD@g-C ₃ N ₄ photocatalyst for enhancing photocatalytic activity. Micro and Nano Letters, 2021, 16, 77-82.	0.6	2
123	CHAPTER 13. New Approaches Towards the Design of Tough Amphiphilic Polymeric Co-networks. RSC Polymer Chemistry Series, 2020, , 277-308.	0.1	1