

Changkui Fu

List of Publications by Year in descending order

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71
papers

3,884
citations

109264

35
h-index

123376

61
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72
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72
docs citations

72
times ranked

3574
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ -Responsive Polymeric Vesicles that Breathe. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4923-4927.	7.2	277
2	Thermo and pH Dual-Responsive Materials for Controllable Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2026-2030.	4.0	257
3	Selective Photoactivation: From a Single Unit Monomer Insertion Reaction to Controlled Polymer Architectures. <i>Journal of the American Chemical Society</i> , 2016, 138, 3094-3106.	6.6	250
4	Photoacid-mediated ring opening polymerization driven by visible light. <i>Chemical Communications</i> , 2016, 52, 7126-7129.	2.2	182
5	Biological Utility of Fluorinated Compounds: from Materials Design to Molecular Imaging, Therapeutics and Environmental Remediation. <i>Chemical Reviews</i> , 2022, 122, 167-208.	23.0	172
6	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single Unit Monomer Insertion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8376-8383.	7.2	165
7	PEGylation and polyPEGylation of nanodiamond. <i>Polymer</i> , 2012, 53, 3178-3184.	1.8	141
8	A new insight into the Biginelli reaction: the dawn of multicomponent click chemistry?. <i>Polymer Chemistry</i> , 2013, 4, 5395.	1.9	119
9	The Ugi reaction in polymer chemistry: syntheses, applications and perspectives. <i>Polymer Chemistry</i> , 2015, 6, 8233-8239.	1.9	118
10	PolyPEGylated nanodiamond for intracellular delivery of a chemotherapeutic drug. <i>Polymer Chemistry</i> , 2012, 3, 2716.	1.9	105
11	Introducing the Ugi reaction into polymer chemistry as a green click reaction to prepare middle-functional block copolymers. <i>Polymer Chemistry</i> , 2014, 5, 2704-2708.	1.9	93
12	Synthesis of an injectable, self-healable and dual responsive hydrogel for drug delivery and 3D cell cultivation. <i>Polymer Chemistry</i> , 2017, 8, 537-544.	1.9	93
13	Ultra-stable all-solid-state sodium metal batteries enabled by perfluoropolyether-based electrolytes. <i>Nature Materials</i> , 2022, 21, 1057-1065.	13.3	92
14	Amphiphilic fluorescent copolymers via one-pot combination of chemoenzymatic transesterification and RAFT polymerization: synthesis, self-assembly and cell imaging. <i>Polymer Chemistry</i> , 2015, 6, 607-612.	1.9	91
15	Synthesis of Multifunctional Polymers through the Ugi Reaction for Protein Conjugation. <i>Macromolecules</i> , 2014, 47, 5607-5612.	2.2	76
16	One-Pot Synthesis of Block Copolymers by Orthogonal Ring-Opening Polymerization and PET-RAFT Polymerization at Ambient Temperature. <i>ACS Macro Letters</i> , 2016, 5, 444-449.	2.3	74
17	RAFT-mediated, visible light-initiated single unit monomer insertion and its application in the synthesis of sequence-defined polymers. <i>Polymer Chemistry</i> , 2017, 8, 4637-4643.	1.9	69
18	Combining Enzymatic Monomer Transformation with Photoinduced Electron Transfer ~ Reversible Addition ~ Fragmentation Chain Transfer for the Synthesis of Complex Multiblock Copolymers. <i>ACS Macro Letters</i> , 2014, 3, 633-638.	2.3	66

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19	From drug to adhesive: a new application of poly(dihydropyrimidin-2(1H)-one)s via the Biginelli polycondensation. <i>Polymer Chemistry</i> , 2015, 6, 4940-4945.	1.9	58
20	Polymeric ¹⁹ F MRI agents responsive to reactive oxygen species. <i>Polymer Chemistry</i> , 2017, 8, 4585-4595.	1.9	57
21	Introducing mercaptoacetic acid locking imine reaction into polymer chemistry as a green click reaction. <i>Polymer Chemistry</i> , 2014, 5, 2695-2699.	1.9	51
22	Multicomponent Polymerization System Combining Hantzsch Reaction and Reversible Addition-Fragmentation Chain Transfer to Efficiently Synthesize Well-Defined Poly(1,4-dihydropyridine)s. <i>ACS Macro Letters</i> , 2015, 4, 128-132.	2.3	50
23	Enhanced Performance of Polymeric ¹⁹ F MRI Contrast Agents through Incorporation of Highly Water-Soluble Monomer MSEA. <i>Macromolecules</i> , 2018, 51, 5875-5882.	2.2	50
24	Integrating Fluorinated Polymer and Manganese-Layered Double Hydroxide Nanoparticles as pH-Activated ¹⁹ F MRI Agents for Specific and Sensitive Detection of Breast Cancer. <i>Small</i> , 2019, 15, e1902309.	5.2	49
25	Charge Reversion Simultaneously Enhances Tumor Accumulation and Cell Uptake of Layered Double Hydroxide Nanohybrids for Effective Imaging and Therapy. <i>Small</i> , 2020, 16, e2002115.	5.2	49
26	From Polymer Sequence Control to Protein Recognition: Synthesis, Self-Assembly and Lectin Binding. <i>Macromolecules</i> , 2014, 47, 4676-4683.	2.2	48
27	The power of one-pot: a hexa-component system containing π - π stacking, Ugi reaction and RAFT polymerization for simple polymer conjugation on carbon nanotubes. <i>Polymer Chemistry</i> , 2015, 6, 509-513.	1.9	48
28	Multicomponent Copolycondensates via the Simultaneous Hantzsch and Biginelli Reactions. <i>ACS Macro Letters</i> , 2015, 4, 1189-1193.	2.3	45
29	Sulfoxide-Containing Polymer-Coated Nanoparticles Demonstrate Minimal Protein Fouling and Improved Blood Circulation. <i>Advanced Science</i> , 2020, 7, 2000406.	5.6	43
30	Antifouling Surfaces Enabled by Surface Grafting of Highly Hydrophilic Sulfoxide Polymer Brushes. <i>Biomacromolecules</i> , 2021, 22, 330-339.	2.6	43
31	Low-Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4729-4735.	7.2	40
32	Postpolymerization Modification of Poly(dihydropyrimidin-2(1 <i>H</i>)-thione)s via the Thiourea-Haloalkane Reaction to Prepare Functional Polymers. <i>ACS Macro Letters</i> , 2015, 4, 843-847.	2.3	39
33	One-Pot Cascade Synthetic Strategy: A Smart Combination of Chemoenzymatic Transesterification and Raft Polymerization. <i>ACS Macro Letters</i> , 2012, 1, 1224-1227.	2.3	38
34	A multicomponent polymerization system: click-chemoenzymatic-ATRP in one-pot for polymer synthesis. <i>Polymer Chemistry</i> , 2013, 4, 466-469.	1.9	38
35	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie</i> , 2017, 129, 8496-8503.	1.6	36
36	Importance of Thermally Induced Aggregation on ¹⁹ F Magnetic Resonance Imaging of Perfluoropolyether-Based Comb-Shaped Poly(2-oxazoline)s. <i>Biomacromolecules</i> , 2019, 20, 365-374.	2.6	36

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37	Fluorinated Glycopolymers as Reduction-responsive ¹⁹ F MRI Agents for Targeted Imaging of Cancer. <i>Biomacromolecules</i> , 2019, 20, 2043-2050.	2.6	35
38	Combining chemoenzymatic monomer transformation with ATRP: a facile one-pot approach to functional polymers. <i>Chemical Communications</i> , 2012, 48, 9062.	2.2	34
39	Bioconjugation and Fluorescence Labeling of Iron Oxide Nanoparticles Grafted with Bromomaleimide-Terminal Polymers. <i>Biomacromolecules</i> , 2018, 19, 4423-4429.	2.6	32
40	Tuning of the Aggregation Behavior of Fluorinated Polymeric Nanoparticles for Improved Therapeutic Efficacy. <i>ACS Nano</i> , 2020, 14, 7425-7434.	7.3	31
41	Facile One-Pot Synthesis of New Functional Polymers through Multicomponent Systems. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 486-492.	1.1	30
42	Proteins Conjugated with Sulfoxide-Containing Polymers Show Reduced Macrophage Cellular Uptake and Improved Pharmacokinetics. <i>ACS Macro Letters</i> , 2020, 9, 799-805.	2.3	30
43	One-pot synthesis of optically active polymers via concurrent cooperation of enzymatic resolution and living radical polymerization. <i>Polymer Chemistry</i> , 2013, 4, 264-267.	1.9	28
44	Fluorescent PEGylation agent by a thiolactone-based one-pot reaction: a new strategy for theranostic combinations. <i>Polymer Chemistry</i> , 2014, 5, 6656-6661.	1.9	28
45	Nonionic polymer cross-linked chitosan hydrogel: preparation and bioevaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1564-1574.	1.9	26
46	Functional polymers as metal-free magnetic resonance imaging contrast agents. <i>Progress in Polymer Science</i> , 2020, 108, 101286.	11.8	25
47	Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2021, 33, 6484-6500.	3.2	25
48	Low-Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. <i>Angewandte Chemie</i> , 2020, 132, 4759-4765.	1.6	22
49	Synthesis of gradient copolymers by concurrent enzymatic monomer transformation and RAFT polymerization. <i>Polymer Chemistry</i> , 2013, 4, 5720.	1.9	19
50	Facile synthesis of a multifunctional copolymer via a concurrent RAFT-enzymatic system for theranostic applications. <i>Polymer Chemistry</i> , 2016, 7, 546-552.	1.9	18
51	Amphiphilic Perfluoropolyether Copolymers for the Effective Removal of Polyfluoroalkyl Substances from Aqueous Environments. <i>Macromolecules</i> , 2021, 54, 3447-3457.	2.2	18
52	Revealing the Molecular-Level Interactions between Cationic Fluorinated Polymer Sorbents and the Major PFAS Pollutant PFOA. <i>Macromolecules</i> , 2022, 55, 1077-1087.	2.2	17
53	Multimodal Nanoprobe for Pancreatic Beta Cell Detection and Amyloidosis Mitigation. <i>Chemistry of Materials</i> , 2020, 32, 1080-1088.	3.2	16
54	Eco-friendly biomolecule-nanomaterial hybrids as next-generation agrochemicals for topical delivery. <i>EcoMat</i> , 2021, 3, e12132.	6.8	16

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55	Biomimetic core-shell silica nanoparticles using a dual-functional peptide. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 185-194.	5.0	14
56	Lighting up the PEGylation agents via the Hantzsch reaction. <i>Polymer Chemistry</i> , 2016, 7, 523-528.	1.9	13
57	ELECTROACTIVE CONDUCTING POLYMERS FOR BIOMEDICAL APPLICATIONS. <i>Acta Polymerica Sinica</i> , 2010, 00, 1399-1405.	0.0	11
58	Hierarchically Porous Chitosan-PEG-Silica Biohybrid: Synthesis and Rapid Cell Adsorption. <i>Advanced Healthcare Materials</i> , 2013, 2, 302-305.	3.9	10
59	Use of Microfluidics to Fabricate Bioerodable Lipid Hybrid Nanoparticles Containing Hydromorphone or Ketamine for the Relief of Intractable Pain. <i>Pharmaceutical Research</i> , 2020, 37, 211.	1.7	9
60	Enhanced Mucosal Transport of Polysaccharide-Calcium Phosphate Nanocomposites for Oral Vaccination. <i>ACS Applied Bio Materials</i> , 2021, 4, 7865-7878.	2.3	9
61	Investigation of heparin-loaded poly(ethylene glycol)-based hydrogels as anti-thrombogenic surface coatings for extracorporeal membrane oxygenation. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4974-4983.	2.9	9
62	Optically Active Polymer Via One-Pot Combination of Chemoenzymatic Transesterification and RAFT Polymerization: Synthesis and Its Application in Hybrid Silica Particles. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1483-1489.	1.1	8
63	The Impact of Polymer Size and Cleavability on the Intravenous Pharmacokinetics of PEG-Based Hyperbranched Polymers in Rats. <i>Nanomaterials</i> , 2020, 10, 2452.	1.9	8
64	Development of a hyperbranched polymer-based methotrexate nanomedicine for rheumatoid arthritis. <i>Acta Biomaterialia</i> , 2022, 142, 298-307.	4.1	7
65	Photo/Thermal Dual Responses in Aqueous-Soluble Copolymers Containing 1-Naphthyl Methacrylate. <i>Macromolecules</i> , 2021, 54, 4860-4870.	2.2	5
66	Tuning the thermoresponsive properties of PEG-based fluorinated polymers and stimuli responsive drug release for switchable ¹⁹ F magnetic resonance imaging. <i>Polymer Chemistry</i> , 2021, 12, 5438-5448.	1.9	5
67	New synthetic strategy for facile synthesis of functional polymers by one-pot combination of controlled radical polymerization and enzymatic reaction. <i>Polymer International</i> , 2015, 64, 705-712.	1.6	4
68	Frontispiece: Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	1
69	Photo-directing chemoepitaxy: the versatility of poly(aryl methacrylate) films in tuning block copolymer wetting. <i>Polymer Chemistry</i> , 2021, 12, 3201-3209.	1.9	1
70	Editorial: Design, Synthesis and Biomedical Applications of Functional Polymers. <i>Frontiers in Chemistry</i> , 2021, 9, 681189.	1.8	1
71	Frontispiz: Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0