

Zhibin Guan

List of Publications by Year in descending order

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61
papers

7,844
citations

87888

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123424

61
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66
all docs

66
docs citations

66
times ranked

7413
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Fueled Active Supramolecular Materials. <i>Journal of the American Chemical Society</i> , 2022, 144, 7844-7851.	13.7	30
2	Multifunctional Dendronized Polypeptides for Controlled Adjuvanticity. <i>Biomacromolecules</i> , 2021, , .	5.4	5
3	Redox Chemicalâ€Fueled Dissipative Selfâ€Assembly of Active Materials. <i>ChemSystemsChem</i> , 2020, 2, e1900030.	2.6	45
4	Double-Linear Insertion Mode of $\hat{\pm}$, $\hat{\%}$ -Dienes Enabled by Thio-imino-quinoline Iron Catalyst. <i>ACS Catalysis</i> , 2020, 10, 15092-15103.	11.2	7
5	Chemothermally Driven Outâ€ofâ€Equilibrium Materials for Macroscopic Motion. <i>ChemSystemsChem</i> , 2020, 2, e2000024.	2.6	6
6	Multivalent Peptide-Functionalized Bioreducible Polymers for Cellular Delivery of Various RNAs. <i>Biomacromolecules</i> , 2020, 21, 1613-1624.	5.4	16
7	Self-healing magnetic nanocomposites with robust mechanical properties and high magnetic actuation potential prepared from commodity monomers <i>via</i> graft-from approach. <i>Polymer Chemistry</i> , 2020, 11, 1292-1297.	3.9	12
8	Direct Silyl Ether Metathesis for Vitrimers with Exceptional Thermal Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 16595-16599.	13.7	198
9	A Threeâ€Armed Polymer with Tunable Selfâ€Assembly and Selfâ€Healing Properties Based on Benzeneâ€1,3,5â€tricarboxamide and Metalâ€Ligand Interactions. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800909.	3.9	30
10	Dendritic peptide bolaamphiphiles for siRNA delivery to primary adipocytes. <i>Biomaterials</i> , 2018, 178, 458-466.	11.4	26
11	Immunomodulation of the NLRP3 Inflammasome through Structure-Based Activator Design and Functional Regulation via Lysosomal Rupture. <i>ACS Central Science</i> , 2018, 4, 982-995.	11.3	42
12	Recyclable, Strong, and Highly Malleable Thermosets Based on Boroxine Networks. <i>Journal of the American Chemical Society</i> , 2018, 140, 6217-6220.	13.7	265
13	Large Continuous Mechanical Gradient Formation via Metalâ€Ligand Interactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15575-15579.	13.8	43
14	Silyl Ether as a Robust and Thermally Stable Dynamic Covalent Motif for Malleable Polymer Design. <i>Journal of the American Chemical Society</i> , 2017, 139, 14881-14884.	13.7	385
15	Large Continuous Mechanical Gradient Formation via Metalâ€Ligand Interactions. <i>Angewandte Chemie</i> , 2017, 129, 15781-15785.	2.0	11
16	Phosphine-Iminoquinoline Iron Complexes for Ethylene Polymerization and Copolymerization. <i>Organometallics</i> , 2017, 36, 3758-3764.	2.3	17
17	Antisense oligonucleotide and thyroid hormone conjugates for obesity treatment. <i>Scientific Reports</i> , 2017, 7, 9307.	3.3	11
18	Focused Library Approach to Discover Discrete Dipeptide Bolaamphiphiles for siRNA Delivery. <i>Biomacromolecules</i> , 2016, 17, 3138-3144.	5.4	15

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19	Fluorocarbon Modified Low-Molecular-Weight Polyethylenimine for siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2016, 27, 1784-1788.	3.6	39
20	Tuning Dynamic Mechanical Response in Metallopolymer Networks through Simultaneous Control of Structural and Temporal Properties of the Networks. <i>Macromolecules</i> , 2016, 49, 6310-6321.	4.8	124
21	Biodegradable Dendronized Polymers for Efficient mRNA Delivery. <i>ChemistrySelect</i> , 2016, 1, 4413-4417.	1.5	8
22	Efficient and selective degradation of polyethylenes into liquid fuels and waxes under mild conditions. <i>Science Advances</i> , 2016, 2, e1501591.	10.3	268
23	<i>In situ</i> ultra-small-angle X-ray scattering study under uniaxial stretching of colloidal crystals prepared by silica nanoparticles bearing hydrogen-bonding polymer grafts. <i>IUCr</i> , 2016, 3, 211-218.	2.2	16
24	Mechanically Robust and Self-Healable Superlattice Nanocomposites by Self-Assembly of Single-Component "Sticky" Polymer-Grafted Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 3934-3941.	21.0	111
25	Multivalent dendritic polyglycerolamine with arginine and histidine end groups for efficient siRNA transfection. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 763-772.	2.2	9
26	Amino Acid-Functionalized Dendritic Polyglycerol for Safe and Effective siRNA Delivery. <i>Biomacromolecules</i> , 2015, 16, 3869-3877.	5.4	19
27	Enhanced Glassy State Mechanical Properties of Polymer Nanocomposites via Supramolecular Interactions. <i>Nano Letters</i> , 2015, 15, 5465-5471.	9.1	54
28	Enhancing Mechanical Performance of a Covalent Self-Healing Material by Sacrificial Noncovalent Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 4846-4850.	13.7	367
29	Forced Unfolding of Single-Chain Polymeric Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 6880-6888.	13.7	89
30	Malleable and Self-Healing Covalent Polymer Networks through Tunable Dynamic Boronic Ester Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 6492-6495.	13.7	768
31	Control of hierarchical polymer mechanics with bioinspired metal-coordination dynamics. <i>Nature Materials</i> , 2015, 14, 1210-1216.	27.5	375
32	Structure-Based Design of Dendritic Peptide Bolaamphiphiles for siRNA Delivery. <i>ACS Central Science</i> , 2015, 1, 303-312.	11.3	57
33	Catalytic acceptorless dehydrogenations: Ru-Macho catalyzed construction of amides and imines. <i>Tetrahedron</i> , 2014, 70, 4213-4218.	1.9	67
34	Self-Healing Multiphase Polymers via Dynamic Metal-Ligand Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 16128-16131.	13.7	467
35	Direct correlation of single-molecule properties with bulk mechanical performance for the biomimetic design of polymers. <i>Nature Materials</i> , 2014, 13, 1055-1062.	27.5	107
36	Multifunctional Dendronized Peptide Polymer Platform for Safe and Effective siRNA Delivery. <i>Journal of the American Chemical Society</i> , 2013, 135, 4962-4965.	13.7	136

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37	Direct observation of a cationic ruthenium complex for ethylene insertion polymerization. <i>Chemical Science</i> , 2013, 4, 2902.	7.4	6
38	Maintaining functional islets through encapsulation in an injectable saccharide-peptide hydrogel. <i>Biomaterials</i> , 2013, 34, 3984-3991.	11.4	39
39	Self-assembly of core-shell nanoparticles for self-healing materials. <i>Polymer Chemistry</i> , 2013, 4, 4885.	3.9	51
40	Fluoropolymer elastomers as robust materials for potential microfluidic device applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 1100-1106.	6.7	24
41	Making Insoluble Polymer Networks Malleable via Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 8424-8427.	13.7	475
42	Olefin Metathesis for Effective Polymer Healing via Dynamic Exchange of Strong Carbon-Carbon Double Bonds. <i>Journal of the American Chemical Society</i> , 2012, 134, 14226-14231.	13.7	444
43	Multiphase design of autonomic self-healing thermoplastic elastomers. <i>Nature Chemistry</i> , 2012, 4, 467-472.	13.6	1,021
44	Recent Progress of Catalytic Polymerization for Controlling Polymer Topology. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1058-1070.	3.3	67
45	Foldamers as Cross-Links for Tuning the Dynamic Mechanical Property of Methacrylate Copolymers. <i>Macromolecules</i> , 2010, 43, 6185-6192.	4.8	24
46	Cascade Chain-Walking Polymerization to Generate Large Dendritic Nanoparticles. <i>Macromolecules</i> , 2010, 43, 4829-4832.	4.8	28
47	Effect of Ligand Electronics on the Stability and Chain Transfer Rates of Substituted Pd(II) π -Diimine Catalysts. <i>Macromolecules</i> , 2010, 43, 4091-4097.	4.8	126
48	Nickel(II) and Palladium(II) Polymerization Catalysts Bearing a Fluorinated Cyclophane Ligand: Stabilization of the Reactive Intermediate. <i>Organometallics</i> , 2009, 28, 4452-4463.	2.3	125
49	Supramolecular design in biopolymers and biomimetic polymers for advanced mechanical properties. <i>Polymer International</i> , 2007, 56, 467-473.	3.1	46
50	Saccharide-Peptide Hybrid Copolymers as Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6529-6533.	13.8	87
51	Bio-inspired Design of Modular Multi-domain Polymers for Advanced Biomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2005, 873, 1.	0.1	0
52	Nickel(II) and Palladium(II) Complexes with an Alkane-Bridged Macrocyclic Ligand: Synthesis, Characterization, and Polymerization Tests. <i>Organometallics</i> , 2005, 24, 4933-4939.	2.3	40
53	Living Polymerization of π -Olefins at Elevated Temperatures Catalyzed by a Highly Active and Robust Cyclophane-Based Nickel Catalyst. <i>Macromolecules</i> , 2005, 38, 2544-2546.	4.8	130
54	Ligand Electronic Effects on Late Transition Metal Polymerization Catalysts. <i>Organometallics</i> , 2005, 24, 1145-1155.	2.3	189

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55	Modular Domain Structure: A Biomimetic Strategy for Advanced Polymeric Materials. Journal of the American Chemical Society, 2004, 126, 2058-2065.	13.7	125
56	Control of polymer topology through late-transition-metal catalysis. Journal of Polymer Science Part A, 2003, 41, 3680-3692.	2.3	84
57	Late-Transition-Metal Complexes with Bisazaferrocene Ligands for Ethylene Oligomerization. Organometallics, 2003, 22, 5033-5046.	2.3	75
58	Control of Polymer Topology through Transition-Metal Catalysis: Synthesis of Hyperbranched Polymers by Cobalt-Mediated Free Radical Polymerization. Journal of the American Chemical Society, 2002, 124, 5616-5617.	13.7	95
59	Synthesis of New Phosphine Imine Ligands and Their Effects on the Thermal Stability of Late-Transition-Metal Olefin Polymerization Catalysts. Organometallics, 2002, 21, 3580-3586.	2.3	120
60	Control of Polymer Topology by Chain-Walking Catalysts. Chemistry - A European Journal, 2002, 8, 3086.	3.3	169
61	Bioinspired Supramolecular Design in Polymers for Advanced Mechanical Properties. , 0, , 235-258.		1