

Birong Zeng

List of Publications by Year in descending order

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64
papers

1,773
citations

236612

25
h-index

288905

40
g-index

64
all docs

64
docs citations

64
times ranked

2030
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple Dual-pH Responsive Prodrug-Based Polymeric Micelles for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17109-17117.	4.0	144
2	An intramolecular hybrid of metal polyhedral oligomeric silsesquioxanes with special titanium-embedded cage structure and flame retardant functionality. <i>Chemical Engineering Journal</i> , 2019, 374, 1304-1316.	6.6	97
3	Osmapyridine and Osmapyridinium from a Formal [4+2] Cycloaddition Reaction. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5430-5434.	7.2	92
4	Electrically programmable adhesive hydrogels for climbing robots. <i>Science Robotics</i> , 2021, 6, .	9.9	83
5	Formation of Four Conjugated Osmacyclic Species in a One-Pot Reaction. <i>Organometallics</i> , 2008, 27, 2584-2589.	1.1	64
6	Enhancing the performance of thin-film nanocomposite nanofiltration membranes using MAH-modified GO nanosheets. <i>RSC Advances</i> , 2017, 7, 54898-54910.	1.7	62
7	B, N co-doped carbon from cross-linking induced self-organization of boronate polymer for supercapacitor and oxygen reduction reaction. <i>Journal of Power Sources</i> , 2017, 365, 354-361.	4.0	61
8	A novel double-modified strategy to enhance the performance of thin-film nanocomposite nanofiltration membranes: Incorporating functionalized graphenes into supporting and selective layers. <i>Chemical Engineering Journal</i> , 2019, 368, 186-201.	6.6	60
9	A high synergistic P/N/Si-containing additive with dandelion-shaped structure deriving from self-assembly for enhancing thermal and flame retardant property of epoxy resins. <i>Reactive and Functional Polymers</i> , 2018, 131, 89-99.	2.0	59
10	Design of Slidable Polymer Networks: A Rational Strategy to Stretchable, Rapid Self-Healing Hydrogel Electrolytes for Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20479-20489.	4.0	58
11	Constructing robust 3-dimensionally conformal micropatterns: vulcanization of honeycomb structured polymeric films. <i>Soft Matter</i> , 2011, 7, 546-552.	1.2	50
12	Multifunctional and High Affinity Polymer Ligand that Provides Bio-Orthogonal Coating of Quantum Dots. <i>Bioconjugate Chemistry</i> , 2016, 27, 2024-2036.	1.8	50
13	Facile synthesis of nitrogen-doped carbon materials with hierarchical porous structures for high-performance supercapacitors in both acidic and alkaline electrolytes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13154-13163.	5.2	50
14	Asymmetric Hydrophosphonylation of Imines to Construct Highly Stable Covalent Organic Frameworks with Efficient Intrinsic Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2022, 144, 9624-9633.	6.6	50
15	Characterization of the Ligand Capping of Hydrophobic CdSe@ZnS Quantum Dots Using NMR Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 225-238.	3.2	49
16	A novel halogen-free curing agent with linear multiaromatic rigid structure as flame retardant modifier in epoxy resin. <i>Polymers for Advanced Technologies</i> , 2018, 29, 603-611.	1.6	45
17	Design of h-BN@boronate polymer core-shell nanoplates to simultaneously enhance the flame retardancy and mechanical properties of epoxy resin through the interfacial regulation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105751.	3.8	43
18	Facile fabrication of multifunctional flame retardant epoxy resin by a core-shell structural AgNC@boronate polymer. <i>Chemical Engineering Journal</i> , 2022, 438, 135402.	6.6	43

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19	Anderson-type polyoxometalate-based hybrid with high flame retardant efficiency for the preparation of multifunctional epoxy resin nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 186, 107780.	5.9	36
20	Predictable Particle Engineering: Programming the Energy Level, Carrier Generation, and Conductivity of Core-Shell Particles. <i>Journal of the American Chemical Society</i> , 2018, 140, 7629-7636.	6.6	34
21	Highly transparent and flame-retardant epoxy composites based on a hybrid multi-element containing POSS derivative. <i>RSC Advances</i> , 2017, 7, 46139-46147.	1.7	32
22	In-situ generation of Ru-catechol coordinative polymer precursor for high-performance hydrogen evolution reaction doped carbon catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119795.	10.8	32
23	Interaction of pyrrolizine derivatives with bovine serum albumin by fluorescence and UV-Vis spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 132-138.	2.0	29
24	Flame retardant epoxy resin based on organic titanate and polyhedral oligomeric silsesquioxane-containing additives with synergistic effects. <i>RSC Advances</i> , 2017, 7, 26082-26088.	1.7	29
25	Green construction of multi-functional fire resistant epoxy resins based on boron nitride with core-shell structure. <i>Polymer Degradation and Stability</i> , 2022, 203, 110059.	2.7	29
26	Hybrid amphiphilic block copolymers containing polyhedral oligomeric silsesquioxane: Synthesis, characterization, and self-assembly in solutions. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4300-4310.	2.5	28
27	Characterizing the Brownian Diffusion of Nanocolloids and Molecular Solutions: Diffusion-Ordered NMR Spectroscopy vs Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4631-4650.	1.2	25
28	In-situ growth of metal-organophosphorus nanosheet/nanorod on graphene for enhancing flame retardancy and mechanical properties of epoxy resin. <i>Composites Part B: Engineering</i> , 2020, 200, 108271.	5.9	24
29	Control of structure formation of polycarbosilane synthesized from polydimethylsilane by Kumada rearrangement. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3114-3121.	1.3	21
30	Non-Invasive Characterization of the Organic Coating of Biocompatible Quantum Dots Using Nuclear Magnetic Resonance Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 3454-3466.	3.2	21
31	Synthesis and application of aminophenyl-triazine derivatives as potential flame retardants in the modification of epoxy resins. <i>RSC Advances</i> , 2018, 8, 37631-37642.	1.7	20
32	ZIF-8@Co-doped boronate ester polymer core-shell particles: Catalytically enhancing the nonflammability and smoke suppression of epoxy resin. <i>Polymer Degradation and Stability</i> , 2022, 198, 109877.	2.7	20
33	Modification of a liquid polycarbosilane with 9-BBN as a high-ceramic-yield precursor for SiC. <i>Reactive and Functional Polymers</i> , 2010, 70, 334-339.	2.0	17
34	Novel azobenzene-based amphiphilic copolymers: synthesis, self-assembly behavior and multiple-stimuli-responsive properties. <i>RSC Advances</i> , 2018, 8, 16103-16113.	1.7	17
35	Platinum-nanoparticle-supported core-shell polymer nanospheres with unexpected water stability and facile further modification. <i>Nanotechnology</i> , 2012, 23, 175301.	1.3	14
36	Tumor microenvironment-activated self-charge-generable metallosupramolecular polymer nanocapsules for photoacoustic imaging-guided targeted synergistic photothermal-chemotherapy. <i>Chemical Engineering Journal</i> , 2021, 405, 126690.	6.6	14

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37	Zirconium-Embedded Polyhedral Oligomeric Silsesquioxane Containing Phosphaphenanthrene-Substituent Group Used as Flame Retardants for Epoxy Resin Composites. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100012.	1.7	14
38	In Situ Generation of Ultrathin MoS ₂ Nanosheets in Carbon Matrix for High Energy Density Photo-Responsive Supercapacitors. <i>Advanced Science</i> , 2022, 9, .	5.6	13
39	Co-flame retarding effect of ethanolamine modified titanium-containing polyhedral oligomeric silsesquioxanes in epoxy resin. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5266.	1.7	11
40	Synergistic Effect of Mesoporous Nanocomposites with Different Pore Sizes and Structures on Fire Safety and Smoke Suppression of Epoxy Resin. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900640.	1.7	11
41	Improving the flame retardancy and thermal property of organotitanate-modified epoxy resin for electronic application via a simple method. <i>High Performance Polymers</i> , 2019, 31, 12-23.	0.8	10
42	Interactions between diperoxovanadate complex and amide ligands in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 202-207.	2.0	8
43	Spectroscopic and theoretical study on the interaction between diperoxovanadate and oxazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 117-122.	2.0	8
44	Cross-Linking Induced Self-Organization of Polymers into Degradable Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14700-14708.	4.0	8
45	NMR and theoretical study on interactions between diperoxovanadate complex and 4-substituted pyridines. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 644-649.	2.0	7
46	Study on structural variation of oxalate-oxodiperoxovanadate(V) from solid state to solution using NMR spectroscopy and theoretical calculation. <i>Inorganic Chemistry Communication</i> , 2009, 12, 1259-1262.	1.8	7
47	A novel hybrid polyhedral oligomeric silsesquioxane-based copolymer with zwitterion: Synthesis, characterization, self-assembly behavior and pH responsive property. <i>Macromolecular Research</i> , 2017, 25, 817-825.	1.0	7
48	Preparation and properties of flame retardant epoxy resin modified by additive nitrogen-containing POSS-based molecule with eight DOPO units. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	7
49	Grafting multi-elements hybrid polymer brushes on graphene oxide for epoxy composite with excellent flame retardancy. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50923.	1.3	7
50	Spectroscopic and DFT Study on the Interaction System of Vanadium with α -Proline in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5211-5216.	1.1	6
51	Polyhedral oligomeric silsesquioxane hybridized with DOPO and phenylboronic acid for flame-retarded epoxy resin. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2339-2351.	1.6	6
52	Diblock Copolymers Containing Titanium-Hybridized Polyhedral Oligomeric Silsesquioxane Used as a Macromolecular Flame Retardant for Epoxy Resin. <i>Polymers</i> , 2022, 14, 1708.	2.0	6
53	Polyethersulfone microfiltration membrane modified by an amphiphilic dithiolane-containing copolymer for improving anti-protein fouling performance and rejection of nanoparticles. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2816-2826.	1.6	5
54	Amphiphilic Copolymer-Based Multichannel Toolbox with Multistage Adjustable and Visualized Catalytic Properties. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5604-5611.	2.0	5

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55	A simplified reinforcement and fracture mechanism analysis model of epoxy nanocomposites based on finite element simulation. <i>Polymer</i> , 2022, 250, 124879.	1.8	5
56	Multinuclear nuclear magnetic resonance and density functional theoretical studies on the structure of bisperoxovanadium complexes with bidentate donors. <i>Inorganica Chimica Acta</i> , 2011, 365, 119-126.	1.2	4
57	An airflow-controlled solvent evaporation route to hollow microspheres and colloidosomes. <i>RSC Advances</i> , 2014, 4, 4796.	1.7	4
58	A Smart Anticorrosive Epoxy Coating Based on Environmental Stimuli-Responsive Copolymer Assemblies for Controlled Release of Corrosion Inhibitors. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	4
59	The structure, stability, and reactivity of oxalato-monoperoxovanadium(V) in solution. <i>Journal of Coordination Chemistry</i> , 2010, 63, 3268-3278.	0.8	3
60	Three-dimensional gold nanodendrimers: never conglomerating nanocatalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 7108.	6.7	2
61	Kinetics control over the Schiff base formation reaction for fabrication of hierarchical porous carbon materials with tunable morphology for high-performance supercapacitors. <i>Nanotechnology</i> , 2021, 32, 305602.	1.3	2
62	Spectroscopic and theoretical study on the interaction between diperoxovanadate complexes and glycyl-histidine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 825-831.	2.0	1
63	K ⁺ -Responsive Crown Ether-Based Amphiphilic Copolymer: Synthesis and Application in the Release of Drugs and Au Nanoparticles. <i>Polymers</i> , 2022, 14, 406.	2.0	0
64	Self-activatable carbon nanotube@ruthenium-catechol coordination complex for hydrogen evolution reaction. <i>Nanotechnology</i> , 0, , .	1.3	0