

# Qixin Zhuang

## List of Publications by Year in descending order

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93  
papers

3,058  
citations

159573

30  
h-index

175241

52  
g-index

93  
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93  
docs citations

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times ranked

3697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-covalently modified graphene@poly(ionic liquid) nanocomposite with high-temperature resistance and enhanced dielectric properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 154, 106800.	7.6	13
2	Construction of a flexible 1D core-shell Al <sub>2</sub> O <sub>3</sub> @NaNbO <sub>3</sub> nanowire/poly( <i>p</i> -phenylene benzobisoxazole) nanocomposite with stable and enhanced dielectric properties in an ultra-wide temperature range. <i>Journal of Materials Chemistry C</i> , 2022, 10, 716-725.	5.5	16
3	Construction of Co/C@MoS <sub>2</sub> core-shell nanocubes with enhanced electromagnetic-wave absorption performance. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164080.	5.5	13
4	Ultralight, highly compressible, thermally stable MXene/aramid nanofiber anisotropic aerogels for electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6690-6700.	10.3	69
5	Tuning the interfacial insulating shell characteristics in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanowires/polyetherimide nanocomposites for high-temperature capacitive energy storage. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7962-7969.	5.5	20
6	Hierarchical Multi-Core-Shell CoNi@Graphite Carbon@Carbon Nanoboxes for Highly Efficient Broadband Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 7300-7311.	5.0	11
7	Self-assembly magnetized 3D hierarchical graphite carbon-based heterogeneous yolk-shell nanoboxes with enhanced microwave absorption. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11405-11413.	10.3	28
8	Antibacterial mechanism of N <sup>+</sup> PMI and the characteristics of PMMA-co-N <sup>+</sup> PMI copolymer. <i>Chemistry and Biodiversity</i> , 2022, , .	2.1	0
9	Covalently modified and hierarchically structured corn-like BNNs@BT/benzoxazole composites with enhanced dielectric properties over an ultra-wide temperature range. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 160, 107027.	7.6	6
10	A novel poly( <i>p</i> -phenylene benzobisoxazole) (PBO)-based three-phase silk-cocoon network structure nanocomposites with enhanced dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7574-7586.	2.2	6
11	Preparing Multifunctional High-Performance Cross-Linked Polybenzoxazole Aerogels from Polybenzoxazine. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2352-2362.	4.4	24
12	Microwave absorption of carbonization temperature-dependent uniform yolk-shell H-Fe <sub>3</sub> O <sub>4</sub> @C microspheres. <i>Chemical Engineering Journal</i> , 2021, 420, 129875.	12.7	70
13	Mainchain Alternating Azopolymers with Fast Photo-Induced Reversible Transition Behavior. <i>Macromolecules</i> , 2021, 54, 10040-10048.	4.8	19
14	Benzoxazole-polymer@CCTO hybrid nanoparticles prepared via RAFT polymerization: toward poly( <i>p</i> -phenylene benzobisoxazole) nanocomposites with enhanced high-temperature dielectric properties. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26010-26018.	10.3	28
15	Mitochondria-Targeted Nanoscale MOFs for Improved Photodynamic Therapy. <i>ChemNanoMat</i> , 2020, 6, 89-98.	2.8	19
16	Efficient microwave traps with markedly enhanced interfacial polarization and impedance matching enabled by dual-shelled, dual-cavity magnetic@dielectric hollow nanospheres. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16489-16497.	5.5	15
17	Amphiphilic Organic Cages: Self-Assembly into Nanotubes and Enhanced Anion Interactions. <i>ChemPlusChem</i> , 2020, 85, 906-909.	2.8	2
18	Efficient enzyme-activated therapy based on the different locations of protein and prodrug in nanoMOFs. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6139-6147.	5.8	19

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19	Design and development of HMS@ZIF-8/fluorinated polybenzoxazole composite films with excellent low- <i>k</i> performance, mechanical properties and thermal stability. Journal of Materials Chemistry C, 2020, 8, 7476-7484.	5.5	27
20	Bio-based benzoxazines based on sesamol: Synthesis and properties. Journal of Applied Polymer Science, 2019, 136, 48255.	2.6	29
21	Metal-Organic Frameworks Bearing Dense Alkyl Thiol for the Efficient Degradation and Concomitant Removal of Toxic Cr(VI). Langmuir, 2019, 35, 16226-16233.	3.5	37
22	Highly Selective CO <sub>2</sub> Uptake in Novel Fishnet-like Polybenzoxazine-Based Porous Carbon. Energy & Fuels, 2019, 33, 11454-11464.	5.1	33
23	Specific detection of hypochlorite based on the size-selective effect of luminophore integrated MOF-801 synthesized by a one-pot strategy. Dalton Transactions, 2019, 48, 2617-2625.	3.3	30
24	Effect of NH <sub>2</sub> -functionalized carbon nanospheres on the performances of poly(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T Electronics, 2019, 30, 7567-7576.	2.2	1
25	The synthesis, self-assembly and pH-responsive fluorescence enhancement of an alternating amphiphilic copolymer with azobenzene pendants. Polymer Chemistry, 2019, 10, 4025-4030.	3.9	23
26	A core@double shell-structured PBO composite with excellent dielectric properties and high heat resistance. Journal of Materials Chemistry A, 2019, 7, 11195-11204.	10.3	13
27	Fluorine-Free Superhydrophobic Coatings Based on Silicone and Functionalized Colloidal Silica. Coatings, 2019, 9, 159.	2.6	11
28	One-pot doping platinum porphyrin recognition centers in Zr-based MOFs for ratiometric luminescent monitoring of nitric oxide in living cells. Talanta, 2019, 200, 472-479.	5.5	27
29	Substitution-type luminescent MOF sensor with built-in capturer for selective cholesterol detection in blood serum. Journal of Materials Chemistry C, 2019, 7, 12674-12681.	5.5	41
30	A robust MOF-based trap with high-density active alkyl thiol for the super-efficient capture of mercury. Chemical Communications, 2019, 55, 12972-12975.	4.1	84
31	Green separation of rare earth elements by valence-selective crystallization of MOFs. Chemical Communications, 2019, 55, 14902-14905.	4.1	9
32	Selective Separation of Isomeric Dicarboxylic Acid by the Preferable Crystallization of Metal-Organic Frameworks. Chemistry - an Asian Journal, 2019, 14, 135-140.	3.3	9
33	<i>In situ</i> synthesis of high dielectric constant GNPs/PBO nanocomposites with enhanced thermostability. IET Nanodielectrics, 2019, 2, 97-102.	4.1	6
34	Aqueous-Phase Synthesis of Mesoporous Zr-Based MOFs Templated by Amphoteric Surfactants. Angewandte Chemie, 2018, 130, 3497-3501.	2.0	32
35	Effect of modified phenolic resin on crosslinked network and performances of polyvinyl acetate blending emulsion. Journal of Applied Polymer Science, 2018, 135, 46448.	2.6	6
36	Aqueous-Phase Synthesis of Mesoporous Zr-Based MOFs Templated by Amphoteric Surfactants. Angewandte Chemie - International Edition, 2018, 57, 3439-3443.	13.8	78

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37	Nanoscale Zr-Based MOFs with Tailorable Size and Introduced Mesopore for Protein Delivery. <i>Advanced Functional Materials</i> , 2018, 28, 1707356.	14.9	92
38	Hierarchical Porous Zr-Based MOFs Synthesized by a Facile Monocarboxylic Acid Etching Strategy. <i>Chemistry - A European Journal</i> , 2018, 24, 2962-2970.	3.3	91
39	(PtBA-co-PPEGMEMA-co-PDOMA)-g-PPFA polymer brushes synthesized by sequential RAFT polymerization and ATRP. <i>Polymer Chemistry</i> , 2018, 9, 2821-2829.	3.9	21
40	Light-Driven Transformation of Bio-Inspired Superhydrophobic Structure via Reconfigurable PAzoMA Microarrays: From Lotus Leaf to Rice Leaf. <i>Macromolecules</i> , 2018, 51, 2742-2749.	4.8	58
41	Reduced polyaniline decorated reduced graphene oxide/polyimide nanocomposite films with enhanced dielectric properties and thermostability. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 578-584.	7.6	41
42	Zr-Based MOFs integrated with a chromophoric ruthenium complex for specific and reversible Hg <sup>2+</sup> sensing. <i>Dalton Transactions</i> , 2018, 47, 5570-5574.	3.3	28
43	In situ Carbothermal Synthesis of Nanoscale Zero-Valent Iron Functionalized Porous Carbon from Metal-Organic Frameworks for Efficient Detoxification of Chromium(VI). <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 23-30.	2.0	34
44	Formation of unique three-dimensional interpenetrating network structure with a ternary composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18699-18707.	2.2	6
45	Enhanced dielectric performance of PDMS-based three-phase percolative nanocomposite films incorporating a high dielectric constant ceramic and conductive multi-walled carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10829-10837.	5.5	59
46	The water-based synthesis of chemically stable Zr-based MOFs using pyridine-containing ligands and their exceptionally high adsorption capacity for iodine. <i>Dalton Transactions</i> , 2017, 46, 7412-7420.	3.3	111
47	Zr-Based MOFs Shielded with Phospholipid Bilayers: Improved Biostability and Cell Uptake for Biological Applications. <i>Chemistry of Materials</i> , 2017, 29, 4580-4589.	6.7	82
48	Core/shell-structured hyperbranched aromatic polyamide functionalized graphene nanosheets-poly(p-phenylene benzobisoxazole) nanocomposite films with improved dielectric properties and thermostability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8705-8713.	10.3	59
49	Novel Fully Biobased Benzoxazines from Rosin: Synthesis and Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10682-10692.	6.7	105
50	Simultaneous Degradation and Removal of Cr <sup>VI</sup> from Aqueous Solution with Zr-Based Metal-Organic Frameworks Bearing Inherent Reductive Sites. <i>Chemistry - A European Journal</i> , 2017, 23, 15415-15423.	3.3	58
51	Porphyrinic MOFs for reversible fluorescent and colorimetric sensing of mercury(II) ions in aqueous phase. <i>RSC Advances</i> , 2016, 6, 69807-69814.	3.6	76
52	Improvement of the interfacial shear strength of poly(p-phenylene benzobisoxazole) fiber/epoxy resin composite via a novel surface coating agent. <i>Polymer Composites</i> , 2016, 37, 1198-1205.	4.6	15
53	Real-Time Monitoring of Dissolved Oxygen with Inherent Oxygen-Sensitive Centers in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2016, 28, 2652-2658.	6.7	56
54	NH <sub>2</sub> -functionalized carbon-coated Fe <sub>3</sub> O <sub>4</sub> core-shell nanoparticles for in situ preparation of robust polyimide composite films with high dielectric constant, low dielectric loss, and high breakdown strength. <i>RSC Advances</i> , 2016, 6, 107533-107541.	3.6	17

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55	Preparation of MWNT-g-poly(2,5-benzoxazole) (ABPBO) with excellent electromagnetic absorption properties in the Ku band via atom transfer radical polymerization (ATRP). <i>Journal of Materials Science</i> , 2016, 51, 7370-7382.	3.7	4
56	Synthesis, structure, and properties of high-impact polystyrene/octavinyl polyhedral oligomeric silsesquioxane nanocomposites. <i>Polymer Composites</i> , 2016, 37, 1049-1055.	4.6	17
57	An investigation into the hydrogen bond of poly(p-phenylene benzobisoxazole)/carboxylic carbon nanotube composites, insight from quantum mechanics/molecular mechanics simulation. <i>Polymer Composites</i> , 2015, 36, 1454-1461.	4.6	7
58	In situ synthesis of ternary BaTiO <sub>3</sub> /MWNT/PBO electromagnetic microwave absorption composites with excellent mechanical properties and thermostabilities. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8205-8214.	10.3	41
59	Preparation of Solution-Processable Reduced Graphene Oxide/Polybenzoxazole Nanocomposites with Improved Dielectric Properties. <i>Macromolecules</i> , 2015, 48, 365-372.	4.8	68
60	Preparation and characterization of STRG/PI composite films with optimized dielectric and mechanical properties. <i>Polymer</i> , 2015, 65, 262-269.	3.8	15
61	Metal-organic frameworks with inherent recognition sites for selective phosphate sensing through their coordination-induced fluorescence enhancement effect. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7445-7452.	10.3	330
62	Preparation and properties of thermostable well-functionalized graphene oxide/polyimide composite films with high dielectric constant, low dielectric loss and high strength via in situ polymerization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10005-10012.	10.3	105
63	In situ synthesis and characterization of fluorinated polybenzobisoxazole/silica-coated magnetic Fe <sub>3</sub> O <sub>4</sub> nanocomposites exhibiting enhanced electromagnetic wave absorption property. <i>Polymer Composites</i> , 2015, 36, 884-891.	4.6	7
64	Synthesis and Characterization of Polybenzobisoxazole Polymers Containing Trifluoromethyl or Sulfone Groups. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 412-427.	1.0	4
65	High performance crosslinked system based on reaction of benzoxazine with benzoxazole. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1514-1518.	2.3	19
66	Fe <sub>3</sub> O <sub>4</sub> /MWNT/poly(p-phenylenebenzobisoxazole) composites with excellent microwave absorption performance and thermal stability. <i>Nanoscale</i> , 2014, 6, 6440-6447.	5.6	89
67	Improvement of interfacial shear strengths of polybenzobisoxazole fiber/epoxy resin composite by TiO <sub>2</sub> coating. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2990-2995.	2.6	31
68	Trap-induced light enhancement from a polymer light emitting device. <i>Applied Physics Letters</i> , 2013, 103, 043306.	3.3	4
69	Synthesis and copolymerization of benzoxazines with low-dielectric constants and high thermal stability. <i>RSC Advances</i> , 2013, 3, 5261.	3.6	48
70	Synthesis and photoluminescence properties of polybenzoxazoles containing perylenebisimide functionalized graphene nanosheets via stacking interactions. <i>New Journal of Chemistry</i> , 2013, 37, 2500.	2.8	11
71	A New Benzoxazine Containing Benzoxazole-Functionalized Polyhedral Oligomeric Silsesquioxane and the Corresponding Polybenzoxazine Nanocomposites. <i>Macromolecules</i> , 2013, 46, 2696-2704.	4.8	115
72	Electrochemic and Photophysics Properties of Pyridine-Based Electron Transmission Material. <i>Journal of Macromolecular Science - Physics</i> , 2013, 52, 826-840.	1.0	1

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73	Preparation of thermostable PBO/graphene nanocomposites with high dielectric constant. <i>Nanotechnology</i> , 2013, 24, 245702.	2.6	38
74	Enhanced solubility of novel poly(benzoxazole)s with a soft linkage and a rigid pendant group. <i>Polymer International</i> , 2013, 62, 721-727.	3.1	1
75	Current remote sensing options for monitoring carbon emissions. , 2013, , .		1
76	A novel approach to assess and monitor forests for REDD. , 2013, , .		0
77	<i>In situ</i> polymerization and photophysical properties of poly( <i>p</i> -phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 124, 4740-4746.	2.6	12
78	Synthesis of acid-soluble graphene and its use in producing a reduced graphene oxide-poly(benzobisoxazole) composite. <i>Journal of Materials Chemistry</i> , 2012, 22, 12381.	6.7	19
79	Synthesis of multiwalled carbon nanotube/fluorine-containing poly( <i>p</i> -phenylene benzoxazole) composites exhibiting greatly enhanced dielectric constants. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4732-4739.	2.3	13
80	Preparation and properties of novel low dielectric constant benzoxazole-based polybenzoxazine. <i>Journal of Polymer Science Part A</i> , 2012, 50, 5115-5123.	2.3	66
81	Molecular simulation of the effect of graft structure on the miscibility of high-impact polystyrene blends. <i>Polymer Composites</i> , 2012, 33, 430-435.	4.6	6
82	Study on the photoinduced electron-transfer activity of poly( <i>p</i> -phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (benzobisoxazole) polymerization. <i>Polymer Composites</i> , 2012, 33, 1295-1301.	4.6	5
83	Study on photoaging of poly( <i>p</i> -phenylene benzobisoxazole) fiber. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1050-1058.	2.6	20
84	In situ synthesis and characterization of poly(2,5-benzoxazole)/multiwalled carbon nanotubes composites. <i>Polymer</i> , 2011, 52, 5271-5276.	3.8	24
85	Molecular simulation of miscibility of poly(2,6-dimethyl-1,4-phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (ethylene glycol) Polymer Composites, 2011, 32, 1671-1680.	4.6	10
86	Mechanism of degradation of poly( <i>p</i> -phenylene benzobisoxazole) under hydrolytic conditions. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1734-1739.	2.6	14
87	Protonation Effect of Polybenzoxazole: Experimental Evidence. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 977-982.	2.2	6
88	Synthesis and Optical Properties of Novel Conjugated Rigid-Rod Polymer Derived from Fluorene and Benzobisoxazole. <i>Polymer Bulletin</i> , 2008, 60, 765-774.	3.3	7
89	Synthesis and properties of polybenzazoles containing flexible methylene in backbone. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 412-416.	0.6	0
90	Shear flow behaviors of poly( <i>p</i> -phenylene benzobisoxazole) spinning dope. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1899-1904.	2.6	5

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91	Kinetics of thermal degradation of poly(p-phenylene benzobisoxazole). Journal of Applied Polymer Science, 2007, 103, 3675-3679.	2.6	2
92	Competition between Host Aggregates and Isolated Guest Chromophores in Trapping Excitons in Polybenzazole Copolymers and Blends. Macromolecular Chemistry and Physics, 2006, 207, 2336-2342.	2.2	8
93	Permanent antimicrobial polymethyl methacrylate prepared by chemical bonding with poly(hexamethylene guanidine hydrochloride). Polymers for Advanced Technologies, 0, , .	3.2	2