

Jiaheng Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 papers	3,869 citations	35 h-index	60 g-index
116 ext. papers	4,934 ext. citations	8.6 avg, IF	6.14 L-index

#	Paper	IF	Citations
106	Ionic liquid exfoliated TiCT MXene nanosheets for photoacoustic imaging and synergistic photothermal/chemotherapy of cancer.. <i>Journal of Materials Chemistry B</i> , 2022 ,	7.3	4
105	Template-assisted synthesis of iron–nitrogen co-doped carbon hollow nanospheres for efficient oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 906, 116021	4.1	1
104	Ionic liquid transdermal delivery system: Progress, prospects, and challenges. <i>Journal of Molecular Liquids</i> , 2022 , 351, 118643	6	4
103	Ionic-Liquid-Assisted Synthesis of N, F, and B Co-Doped CoFe ₂ O ₄ on Multiwalled Carbon Nanotubes with Enriched Oxygen Vacancies for LiB Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2111084	15.6	6
102	Stable Long Cycling of Small Molecular Organic Acid Electrode Materials Enabled by Nonflammable Eutectic Electrolyte. <i>Small</i> , 2021 , e2104538	11	2
101	Boron based hypergolic ionic liquids: A review. <i>Green Energy and Environment</i> , 2021 , 6, 794-822	5.7	6
100	Intermolecular interactions in natural deep eutectic solvents and their effects on the ultrasound-assisted extraction of artemisinin from <i>Artemisia annua</i> . <i>Journal of Molecular Liquids</i> , 2021 , 326, 115283	6	6
99	Response to "What Shall We Do with Computed Detonation Performance? Comment on '1,3,4-Oxadiazole Bridges: A Strategy to Improve Energetics at the Molecular Level'". <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11571	16.4	
98	Taming nitroformate through encapsulation with nitrogen-rich hydrogen-bonded organic frameworks. <i>Nature Communications</i> , 2021 , 12, 2146	17.4	8
97	Taurine-Based Ionic Liquids for Transdermal Protein Delivery and Enhanced Anticancer Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5991-6000	8.3	6
96	Response to "What Shall We Do with Computed Detonation Performance? Comment on '1,3,4-Oxadiazole Bridges: A Strategy to Improve Energetics at the Molecular Level'" <i>Angewandte Chemie</i> , 2021 , 133, 11675-11675	3.6	
95	2D MXene Nanomaterials for Versatile Biomedical Applications: Current Trends and Future Prospects. <i>Small</i> , 2021 , 17, e2100946	11	13
94	Well-balanced energetic cocrystals of H ₅ IO ₆ /HIO ₃ achieved by a small acid-base gap. <i>Chemical Engineering Journal</i> , 2021 , 405, 126623	14.7	12
93	Ionic liquid-assisted synthesis of nickel cobalt phosphide embedded in N, P codoped-carbon with hollow and folded structures for efficient hydrogen evolution reaction and supercapacitor. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119635	21.8	45
92	Encapsulating dual-phased Mo ₂ C-WC nanocrystals into ultrathin carbon nanosheet assemblies for efficient electrocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 408, 127270	14.7	19
91	1,3,4-Oxadiazole Bridges: A Strategy to Improve Energetics at the Molecular Level. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5497-5504	16.4	22
90	1,3,4-Oxadiazole Bridges: A Strategy to Improve Energetics at the Molecular Level. <i>Angewandte Chemie</i> , 2021 , 133, 5557-5564	3.6	7

89	Metal-organic framework derived NiS ₂ hollow spheres as multifunctional reactors for synergistic regulation of polysulfide confinement and redox conversion. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15269-15281	13	5
88	Simultaneously enhancing redox kinetics and inhibiting the polysulfide shuttle effect using MOF-derived CoSe hollow sphere structures for advanced Li-S batteries. <i>Nanoscale</i> , 2021 , 13, 10849-10861	7.7	2
87	Cobalt-doped porphyrin-based porous organic polymer-modified separator for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2792-2805	13	15
86	Butyrylcholinesterase nanodepots with enhanced prophylactic and therapeutic performance for acute organophosphorus poisoning management. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1877-1887	7.3	1
85	Boosting the capacity of biomass-based supercapacitors using carbon materials of wood derivatives and redox molecules from plants. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11839-11852	13	17
84	Co, Fe codoped holey carbon nanosheets as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Chemical Communications</i> , 2021 , 57, 2049-2052	5.8	11
83	Preparation of eco-friendly composite food packaging films based on gelatin and a matrine coconut acids ionic liquid. <i>New Journal of Chemistry</i> , 2021 , 45, 17222-17231	3.6	2
82	Novel Schiff base-bridged multi-component sulfonamide imidazole hybrids as potentially highly selective DNA-targeting membrane active repressors against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Bioorganic Chemistry</i> , 2021 , 107, 104575	5.1	7
81	One Step Closer to an Ideal Insensitive Energetic Molecule: 3,5-Diamino-6-hydroxy-2-oxide-4-nitropyrimidone and its Derivatives. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12665-12674	16.4	9
80	Novel chalcone-conjugated, multi-flexible end-group coumarin thiazole hybrids as potential antibacterial repressors against methicillin-resistant <i>Staphylococcus aureus</i> . <i>European Journal of Medicinal Chemistry</i> , 2021 , 222, 113628	6.8	5
79	Multicomponent Pt/PtTe ₂ /NiCoTe ₂ embedded in ternary heteroatoms-doped carbon for efficient and pH-universal hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161042	5.7	3
78	A Co ₃ O ₄ /C Composite for use as a High-Performance Lithium-Ion Battery Anode. <i>ChemistrySelect</i> , 2020 , 5, 14613-14619	1.8	
77	Sulfur crystallization in the cathode of lithium-sulfur battery during the charging process: A possible alternative to reduce the shuttle effect. <i>Materials Today Energy</i> , 2020 , 18, 100566	7	1
76	Redox-Sensitive Hyaluronic Acid Polymer Prodrug Nanoparticles for Enhancing Intracellular Drug Self-Delivery and Targeted Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4106-4115	5.5	15
75	-Dinitromethyl-Functionalized 5-Amino-1,3,4-oxadiazolate Derivatives: Alternate Route, Characterization, and Property Analysis. <i>Organic Letters</i> , 2020 , 22, 4771-4775	6.2	4
74	An intrinsically stretchable and compressible Zn-air battery. <i>Chemical Communications</i> , 2020 , 56, 4793-4796	5.8	10
73	Rapid Cocrystallization by Exploiting Differential Solubility: An Efficient and Scalable Process toward Easily Fabricating Energetic Cocrystals. <i>Crystal Growth and Design</i> , 2020 , 20, 2129-2134	3.5	7
72	A promising cation of 4-aminofurazan-3-carboxylic acid amidrazone in desensitizing energetic materials.. <i>RSC Advances</i> , 2020 , 10, 2519-2525	3.7	4

71	Synergistic Enhancement Effects of Carbon Quantum Dots and Au Nanoclusters for Cathodic ECL and Non-enzyme Detections of Glucose. <i>Electroanalysis</i> , 2020 , 32, 1155-1159	3	13
70	Synthesis and Properties of 3,6-Dinitropyrazolo[4,3-c]-pyrazole (DNPP) Derivatives. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 546-553	1.7	8
69	Extraction of Alkaloids from Coptidis Rhizoma via Betaine-Based Deep Eutectic Solvents. <i>ChemistrySelect</i> , 2020 , 5, 4973-4978	1.8	4
68	Free-standing phosphorous-doped molybdenum nitride in 3D carbon nanosheet towards hydrogen evolution at all pH values. <i>Journal of Energy Chemistry</i> , 2020 , 50, 44-51	12	21
67	Integrated Resistive-Capacitive Strain Sensors Based on Polymer-Nanoparticle Composites. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4357-4366	5.6	8
66	Stimuli-responsive poly(ionic liquid) nanoparticles for controlled drug delivery. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7994-8001	7.3	10
65	Superior High-Energy-Density Biocidal Agent Achieved with a 3D Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40541-40547	9.5	8
64	Ultrasound-Assisted Natural Deep Eutectic Solvents as Separation-Free Extraction Media for Hydroxytyrosol from Olives. <i>ChemistrySelect</i> , 2020 , 5, 10939-10944	1.8	5
63	Wearable Circuits Sintered at Room Temperature Directly on the Skin Surface for Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45504-45515	9.5	29
62	Ultrasound-assisted extraction of bioactive alkaloids from <i>Phellodendri amurensis</i> cortex using deep eutectic solvent aqueous solutions. <i>New Journal of Chemistry</i> , 2020 , 44, 9172-9178	3.6	9
61	Azo-Group-Containing Organic Compounds as Electrode Materials in Full-Cell Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019 , 6, 5080-5085	4.3	4
60	Redox-Sensitive Polymer Micelles Based on CD44 and Folic Acid Receptor for Intracellular Drug Delivery and Drug Controlled Release in Cancer Therapy.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 4222-4232	4.1	5
59	Sodium and Potassium 3,5-Dinitro-4-hydropyrazolate: Three-Dimensional Metal-Organic Frameworks as Promising Super-heat-resistant Explosives. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7628-7634	6.1	20
58	Highly stretchable patternable conductive circuits and wearable strain sensors based on polydimethylsiloxane and silver nanoparticles. <i>Nanotechnology</i> , 2019 , 30, 185501	3.4	20
57	Ionic liquids-filled patterned cavities improve transmittance of transparent and stretchable electronic polydimethylsiloxane films. <i>Journal of Materials Science</i> , 2019 , 54, 11134-11144	4.3	4
56	Facile growth of ZnO nanosheets standing on Ni foam as binder-free anodes for lithium ion batteries.. <i>RSC Advances</i> , 2019 , 9, 19253-19260	3.7	9
55	A flexible and conductive metallic paper-based current collector with energy storage capability in supercapacitor electrodes. <i>Dalton Transactions</i> , 2019 , 48, 7659-7665	4.3	13
54	Synthesis and hypergolic properties of flammable ionic liquids based on the cyano (1H-1,2,3-triazole-1-yl) dihydroborate anion. <i>Dalton Transactions</i> , 2019 , 48, 6198-6204	4.3	10

53	Synthesis and Properties of Azide-Functionalized Ionic Liquids as Attractive Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2122-2128	4.5	4
52	Natural Compounds Gallic Acid Derivatives for Long-Life Li/Na Organic Batteries. <i>ChemElectroChem</i> , 2019 , 6, 4765-4772	4.3	4
51	Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , 2019 , 21, 5317-5321	3.3	2
50	5-(4-Azidofurazan-3-yl)-1-hydroxytetrazole and its derivatives: from green primary to secondary explosives. <i>New Journal of Chemistry</i> , 2019 , 43, 12684-12689	3.6	14
49	A dual responsive hyaluronic acid graft poly(ionic liquid) block copolymer micelle for an efficient CD44-targeted antitumor drug delivery. <i>New Journal of Chemistry</i> , 2019 , 43, 12275-12282	3.6	8
48	Novel bio-renewable matrinium-based ionic liquids derived from Chinese herb medicine: Synthesis, physicochemical properties and biological activity. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111822	6	15
47	O-Doping Boosts the Electrochemical Oxygen Reduction Activity of a Single Fe Site in Hydrophilic Carbon with Deep Mesopores. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45825-45831	9.5	25
46	Low-temperature sintering of silver nanoparticles on paper by surface modification. <i>Nanotechnology</i> , 2019 , 30, 505303	3.4	5
45	An invisible private 2D barcode design and implementation with tunable fluorescent nanoparticles.. <i>RSC Advances</i> , 2019 , 9, 37292-37299	3.7	3
44	Concentrated Hydrogel Electrolyte-Enabled Aqueous Rechargeable NiCo//Zn Battery Working from -20 to 50 °C. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 49-55	9.5	56
43	An intrinsically 400% stretchable and 50% compressible NiCo//Zn battery. <i>Nano Energy</i> , 2019 , 58, 338-346	10.1	60
42	High-performance joining technology for aluminium matrix composites using ultrasonic-assisted brazing. <i>Materials Science and Technology</i> , 2018 , 34, 660-663	1.5	4
41	Desensitization of the dinitromethyl group: molecular/crystalline factors that affect the sensitivities of energetic materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22705-22712	13	32
40	Isomeric Cocrystals of CL-20: A Promising Strategy for Development of High-Performance Explosives. <i>Crystal Growth and Design</i> , 2018 , 18, 6399-6403	3.5	39
39	Bilayer Tubular Micromotors for Simultaneous Environmental Monitoring and Remediation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35099-35107	9.5	51
38	An intrinsically compressible and stretchable all-in-one configured supercapacitor. <i>Chemical Communications</i> , 2018 , 54, 6200-6203	5.8	35
37	Surfactant-Free Synthesis of Graphene Oxide Coated Silver Nanoparticles for SERS Biosensing and Intracellular Drug Delivery. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2748-2753	5.6	44
36	Synthesis and Characterization of 4-(1,2,4-Triazole-5-yl)furazan Derivatives as High-Performance Insensitive Energetic Materials. <i>Chemistry - A European Journal</i> , 2018 , 24, 10488-10497	4.8	29

- 35 5-(Dinitromethyl)-3-(trinitromethyl)-1,2,4-triazole and its derivatives: a new application of oxidative nitration towards gem-trinitro-based energetic materials. *Journal of Materials Chemistry A*, **2017**, 5, 4785-4790 ¹³ 41
- 34 A Facile and Versatile Synthesis of Energetic Furazan-Functionalized 5-Nitroimino-1,2,4-Triazoles. *Angewandte Chemie - International Edition*, **2017**, 56, 5877-5881 16.4 88
- 33 A Facile and Versatile Synthesis of Energetic Furazan-Functionalized 5-Nitroimino-1,2,4-Triazoles. *Angewandte Chemie*, **2017**, 129, 5971-5975 3.6 16
- 32 Pushing the Limits of Oxygen Balance in 1,3,4-Oxadiazoles. *Journal of the American Chemical Society*, **2017**, 139, 8816-8819 16.4 67
- 31 Polynitro-Functionalized Dipyrazolo-1,3,5-triazinanes: Energetic Polycyclization toward High Density and Excellent Molecular Stability. *Angewandte Chemie - International Edition*, **2017**, 56, 8834-8838 ^{16.4} 68
- 30 1D Energetic Metal-Organic Framework: Sodium 6-Nitro-5-oxidopyrazolo[3,4-c][1,2,5]oxadiazol-4-ide with Good Thermal Stability. *ChemistrySelect*, **2017**, 2, 4673-4677 1.8 4
- 29 Nanoconfined Ionic Liquids. *Chemical Reviews*, **2017**, 117, 6755-6833 68.1 349
- 28 Three-Dimensionally Hierarchical Ni/NiS/S Cathode for Lithium-Sulfur Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 38477-38485 9.5 45
- 27 A promising high-energy-density material. *Nature Communications*, **2017**, 8, 181 17.4 141
- 26 Green primary energetic materials based on N-(3-nitro-1-(trinitromethyl)-1H-1,2,4-triazol-5-yl)nitramide. *New Journal of Chemistry*, **2017**, 41, 9070-9076 ^{3.6} 22
- 25 Bis(4-nitraminofurazanyl-3-azoxy)azofurazan and Derivatives: 1,2,5-Oxadiazole Structures and High-Performance Energetic Materials. *Angewandte Chemie*, **2016**, 128, 11720-11723 3.6 18
- 24 3,6-Dinitropyrazolo[4,3-c]pyrazole-Based Multipurpose Energetic Materials through Versatile N-Functionalization Strategies. *Angewandte Chemie*, **2016**, 128, 13087-13089 3.6 17
- 23 3,6-Dinitropyrazolo[4,3-c]pyrazole-Based Multipurpose Energetic Materials through Versatile N-Functionalization Strategies. *Angewandte Chemie - International Edition*, **2016**, 55, 12895-7 16.4 64
- 22 Time for pairing: cocrystals as advanced energetic materials. *CrystEngComm*, **2016**, 18, 6124-6133 3.3 96
- 21 Energetic Salts Based on 3,5-Bis(dinitromethyl)-1,2,4-triazole Monoanion and Dianion: Controllable Preparation, Characterization, and High Performance. *Journal of the American Chemical Society*, **2016**, 138, 7500-3 16.4 126
- 20 3D Nitrogen-rich metal-organic frameworks: opportunities for safer energetics. *Dalton Transactions*, **2016**, 45, 2363-8 4.3 85
- 19 N-functionalized nitroxy/azido fused-ring azoles as high-performance energetic materials. *Journal of Materials Chemistry A*, **2016**, 4, 7430-7436 13 42
- 18 Bridged bisnitramide-substituted furazan-based energetic materials. *Journal of Materials Chemistry A*, **2016**, 4, 16961-16967 13 30

17	Bis(4-nitraminofurazanyl-3-azoxy)azofurazan and Derivatives: 1,2,5-Oxadiazole Structures and High-Performance Energetic Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11548-51	16.4	54
16	Energetic salts with π -stacking and hydrogen-bonding interactions lead the way to future energetic materials. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1697-704	16.4	263
15	Energetic salts based on furazan-functionalized tetrazoles: routes to boost energy. <i>Chemistry - A European Journal</i> , 2015 , 21, 8607-12	4.8	73
14	Energetic fused triazoles as promising C _N fused heterocyclic cation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8606-8612	13	51
13	Enforced Layer-by-Layer Stacking of Energetic Salts towards High-Performance Insensitive Energetic Materials. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10532-5	16.4	236
12	Combination of 1,2,4-Oxadiazole and 1,2,5-Oxadiazole Moieties for the Generation of High-Performance Energetic Materials. <i>Angewandte Chemie</i> , 2015 , 127, 9499-9503	3.6	38
11	Combination of 1,2,4-Oxadiazole and 1,2,5-Oxadiazole Moieties for the Generation of High-Performance Energetic Materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9367-71	16.4	127
10	Borohydride Ionic Liquids as Hypergolic Fuels: A Quest for Improved Stability. <i>Chemistry - A European Journal</i> , 2015 , 21, 13297-301	4.8	36
9	Taming of 3,4-Di(nitramino)furazan. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15984-7	16.4	112
8	Cyanoborohydride-based ionic liquids as green aerospace bipropellant fuels. <i>Chemistry - A European Journal</i> , 2014 , 20, 6909-14	4.8	76
7	3,3'-Dinitroamino-4,4'-azoxyfurazan and its derivatives: an assembly of diverse N-O building blocks for high-performance energetic materials. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4437-45	16.4	289
6	Energetic N,N'-ethylene-bridged bis(nitropyrazoles): diversified functionalities and properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 16529-36	4.8	61
5	Thermally stable 3,6-dinitropyrazolo[4,3-c]pyrazole-based energetic materials. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2953-60	4.5	59
4	Dense iodine-rich compounds with low detonation pressures as biocidal agents. <i>Chemistry - A European Journal</i> , 2013 , 19, 7503-9	4.8	39
3	Nitramines with varying sensitivities: functionalized dipyrazolyl-N-nitromethanamines as energetic materials. <i>Chemistry - A European Journal</i> , 2013 , 19, 8929-36	4.8	52
2	N-Trinitroethylamino functionalization of nitroimidazoles: a new strategy for high performance energetic materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7500	13	69
1	Novel Schiff Base-conjugated para-Aminobenzenesulfonamide Indole Hybrids as Potentially Multi-targeting Blockers against Staphylococcus aureus. <i>Asian Journal of Organic Chemistry</i> , e202100737	3	1