

Wei Shi

List of Publications by Year in descending order

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77
papers

2,057
citations

331670

21
h-index

265206

42
g-index

77
all docs

77
docs citations

77
times ranked

2560
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on auxetic materials. <i>Journal of Materials Science</i> , 2004, 39, 3269-3279.	3.7	448
2	High-performance particulate matter including nanoscale particle removal by a self-powered air filter. <i>Nature Communications</i> , 2020, 11, 1653.	12.8	108
3	Viscosity, Conductivity, and Electrochemical Property of Dicyanamide Ionic Liquids. <i>Frontiers in Chemistry</i> , 2018, 6, 59.	3.6	104
4	Aqueous-phase selective hydrogenation of phenol to cyclohexanone over soluble Pd nanoparticles. <i>Green Chemistry</i> , 2014, 16, 2664-2669.	9.0	95
5	α -Amidation of Cyclic Ethers Catalyzed by Simple Copper Salt and a Mild and Efficient Preparation Method for α -Amino Alcohols. <i>Organic Letters</i> , 2007, 9, 2277-2280.	4.6	81
6	Synthesis of 2,5-Disubstituted Oxazoles and Oxazolines Catalyzed by Ruthenium(II) Porphyrin and Simple Copper Salts. <i>Journal of Organic Chemistry</i> , 2012, 77, 4271-4277.	3.2	74
7	Design of antineoplastic agents based on the '2-phenyl naphthalene-type' structural pattern synthesis and biological activity studies of 11H-indolo[3,2-c]quinoline derivatives. <i>European Journal of Medicinal Chemistry</i> , 2003, 38, 101-107.	5.5	64
8	High yield of ethyl valerate from the esterification of renewable valeric acid catalyzed by amino acid ionic liquids. <i>RSC Advances</i> , 2013, 3, 4806.	3.6	49
9	Brønsted acidity of bio-protic ionic liquids: the acidic scale of [AA]X amino acid ionic liquids. <i>Green Chemistry</i> , 2015, 17, 5154-5163.	9.0	49
10	Manipulating surface ligands of Copper Sulfide nanocrystals: Synthesis, characterization, and application to organic solar cells. <i>Journal of Colloid and Interface Science</i> , 2014, 419, 142-147.	9.4	44
11	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20846-20851.	13.8	44
12	Designing high-performance hypergolic propellants based on materials genome. <i>Science Advances</i> , 2020, 6, .	10.3	43
13	Self-assembled ionic nanofibers derived from amino acids for high-performance particulate matter removal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4619-4625.	10.3	40
14	Catalyzed Imidation of Tertiary Amines by Simple Copper Salts. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2059-2062.	2.4	37
15	Liquid Dinitromethanide Salts. <i>Inorganic Chemistry</i> , 2011, 50, 679-685.	4.0	34
16	Biocompatible Ionic Liquid Based on Curcumin as Fluorescence Probe for Detecting Benzoyl Peroxide without the Interference of H_2O_2 . <i>Analytical Chemistry</i> , 2019, 91, 6593-6599.	6.5	33
17	Self-Healable, Malleable, and Flexible Ionic Polyimine as an Environmental Sensor for Portable Exogenous Pollutant Detection. , 2022, 4, 136-144.		30
18	Highly active alkyne metathesis catalysts operating under open air condition. <i>Nature Communications</i> , 2021, 12, 1136.	12.8	28

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19	Synthesis, Structure and Property of 5-aminotetrazolate Room-Temperature Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3070-3078.	2.0	27
20	Handy fluorescent paper device based on a curcumin derivative for ultrafast detection of peroxide-based explosives. <i>Chemical Communications</i> , 2019, 55, 13661-13664.	4.1	27
21	Impact insensitive dinitromethanide salts. <i>Chemical Communications</i> , 2013, 49, 10329.	4.1	26
22	Nitrogen-Rich Energetic Ionic Liquids Based on the Bis(1-hydroxy-5-yl)amine Anion Syntheses, Structures, and Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5009-5019.	2.0	25
23	Advances in research of spirodienone and its derivatives: Biological activities and synthesis methods. <i>European Journal of Medicinal Chemistry</i> , 2020, 203, 112577.	5.5	23
24	Super impact stable TATB explosives recrystallized by bicarbonate ionic liquids with a record solubility. <i>Scientific Reports</i> , 2020, 10, 4477.	3.3	23
25	Materials-Genome Approach to Energetic Materials. <i>Accounts of Materials Research</i> , 2021, 2, 692-696.	11.7	22
26	Essential work of fracture evaluation of fracture behavior of glass bead filled linear low-density polyethylene. <i>Journal of Applied Polymer Science</i> , 2006, 99, 1781-1787.	2.6	21
27	Synthesis, structure and near-infrared photoluminescence of hexanitratoneodymate ionic liquids. <i>Dalton Transactions</i> , 2015, 44, 2325-2332.	3.3	21
28	Microwave Assisted Synthesis of Melatonin. <i>Synthetic Communications</i> , 2003, 33, 741-747.	2.1	20
29	Sulfur-Nitrogen and Carbon-Nitrogen Bond Formation by Intermolecular Imination and Amidation without Catalyst. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1554-1562.	2.4	17
30	Structures and Properties of Luminescent Pentanitratoneuropate(III) Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 542-551.	2.0	17
31	Is it Always Chemical When Amino Groups Come Across CO ₂ ? Anion-Anion-Interaction-Induced Inhibition of Chemical Adsorption. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6536-6542.	2.6	17
32	Preparation of α -Sulfonylketone Oximes from Oxidized Hydroxylamine. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2711-2714.	2.4	16
33	Renewable Lanthanide Ionic Liquid/Polymer Composites for High-Efficient Adsorption of Particulate Matter. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700448.	3.7	16
34	Enhanced Solubility and Antitumor Activity of Curcumin via Breaking and Rebuilding of the Hydrogen Bond. <i>ACS Applied Bio Materials</i> , 2021, 4, 918-927.	4.6	16
35	Lithium Chloride-Assisted Selective Hydrolysis of Methyl Esters Under Microwave Irradiation. <i>Synthetic Communications</i> , 2009, 39, 3459-3470.	2.1	15
36	Copper salt-catalyzed formation of a novel series of triazole-spirodienone conjugates with potent anticancer activity. <i>RSC Advances</i> , 2017, 7, 9412-9416.	3.6	15

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37	Synthesis and anticancer activity evaluation of naphthalene-substituted triazole spirodienones. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113039.	5.5	15
38	Electrochemical and Thermodynamic Properties of Ln(III) (Ln = Eu, Sm, Dy, Nd) in 1-Butyl-3-Methylimidazolium Bromide Ionic Liquid. <i>PLoS ONE</i> , 2014, 9, e95832.	2.5	14
39	Ultralow-cost portable device for cesium detection via perovskite fluorescence. <i>Journal of Hazardous Materials</i> , 2022, 425, 127981.	12.4	14
40	Stress-induced crystallization of biaxially oriented polypropylene. <i>Journal of Applied Polymer Science</i> , 2003, 89, 686-690.	2.6	13
41	Fluorescigenic Magnetofluids Based on Gadolinium, Terbium, and Dysprosium-Containing Imidazolium Salts. <i>Inorganic Chemistry</i> , 2018, 57, 6376-6390.	4.0	13
42	Essential work of fracture of glass bead filled low density polyethylene. <i>Journal of Materials Science</i> , 2005, 40, 5323-5326.	3.7	12
43	Tunable luminescence of lanthanide (Ln = Sm, Eu, Tb) hydrophilic ionic polymers based on poly(N-methyl-4-vinylpyridinium-co-styrene) cations. <i>Polymer Chemistry</i> , 2016, 7, 7068-7077.	3.9	12
44	Theoretical Enthalpies of Formation of [AA]X and [AAE]X Type Amino Acid Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 1176-1185.	1.9	11
45	Deciphering the regulatory and catalytic mechanisms of an unusual SAM-dependent enzyme. <i>Signal Transduction and Targeted Therapy</i> , 2019, 4, 17.	17.1	11
46	Development of a bioavailable boron-containing PI-103 Bioisostere, PI-103BE. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127258.	2.2	11
47	Bio-Based Antimicrobial Ionic Materials Fully Composed of Natural Products for Elevated Air Purification. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000046.	5.3	10
48	One-Pot Synthesis of Seven-Membered Heterocyclic Derivatives of Diazepines Involving Copper-Catalyzed Rearrangement Cascade Allyl-Amination. <i>Journal of Organic Chemistry</i> , 2020, 85, 5146-5157.	3.2	10
49	Design, synthesis, and antitumor activity evaluation of novel acyl sulfonamide spirodienones. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 60, 116626.	3.0	10
50	Preparation of Imidazole Derivatives via Bisfunctionalization of Alkynes Catalyzed by Ruthenium Carbonyl. <i>Synthesis</i> , 2019, 51, 3520-3528.	2.3	9
51	Self-Assembled Biomimetic Capsules for Self-Preservation. <i>Small</i> , 2020, 16, e2000930.	10.0	9
52	Novel synthesis of divergent aryl imidazoles from ketones involving copper-catalyzed α -amination and oxidative C-C bond cleavage. <i>RSC Advances</i> , 2020, 10, 13815-13819.	3.6	8
53	Effect of $\text{CoFe}_{2}\text{O}_{4}$ Content on the Dielectric and Magnetoelectric Properties in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.35}\text{Ti}_{0.65}\text{O}_{3}$ Composites. <i>Ferroelectrics</i> , 2010, 410, 82-87.	0.6	7
54	Synthesis of Aroylguanidines by an Unexpected Demethylation-Addition Cascade. <i>Synthesis</i> , 2013, 45, 2533-2544.	2.3	7

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55	A mild and efficient amidation of cyclic ethers catalyzed by rhodium caprylate. <i>Tetrahedron</i> , 2014, 70, 8155-8160.	1.9	7
56	Synthesis and anticancer activity of diam(m)ine platinum(II) complexes with 3-oxo-cyclobutane-1,1-dicarboxylate as the leaving group. <i>Research on Chemical Intermediates</i> , 2015, 41, 8725-8733.	2.7	7
57	Insensitive ionic bio-energetic materials derived from amino acids. <i>Scientific Reports</i> , 2017, 7, 12744.	3.3	7
58	Hydrogen-Bonding-Driven Ion-Pair Formation in Protic Ionic Liquid Aqueous Solution. <i>ChemPhysChem</i> , 2019, 20, 3259-3268.	2.1	7
59	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie</i> , 2020, 132, 21032-21037.	2.0	7
60	Anomalous Melting Point of Multicharge Ionic Liquids: Structural, Electrostatic, and Orbital Properties of $[\text{Ln}(\text{NO}_3)_6]^{3+}$ (Ln = Ce, Pr) Anions. <i>Inorganic Chemistry</i> , 2020, 59, 13700-13708.	4.0	7
61	Rh-Catalyzed oxidation and trifluoroethoxylation of N-aryl-pyrrolidin-2-ones: a domino approach for the synthesis of N-aryl-5-(2,2,2-trifluoroethoxy)-1,5-dihydro-2H-pyrrol-2-ones. <i>Organic Chemistry Frontiers</i> , 0, , .	4.5	7
62	Insensitive energetic 5-nitroaminotetrazolate ionic liquids. <i>RSC Advances</i> , 2015, 5, 54527-54534.	3.6	6
63	Synthesis of 5-oxo-1,3-oxazine-4-ones Through a [3+3] Reaction of Amides and Propiolates Induced by N-odosuccinimide (NIS) and $\text{Cu}(\text{CF}_3\text{SO}_2)_2$. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2585-2589.	2.4	6
64	Virtual Reality Assisted General Education of Nuclear Chemistry and Radiochemistry. <i>Journal of Chemical Education</i> , 2022, 99, 777-786.	2.3	6
65	Ultrasound-Responsive Ionic Liquid for Selective Phase Transition Extraction of Zr(IV) Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9053-9065.	6.7	5
66	Research Progress in Antineoplastic, Antibacterial, and Anti-inflammatory Activities of Seven-membered Heterocyclic Derivatives. <i>Current Medicinal Chemistry</i> , 2022, 29, 5076-5096.	2.4	4
67	Selective synthesis and reactivity expansion of $\hat{1},\hat{1}^2$ -unsaturated geminal diazides. <i>Organic Chemistry Frontiers</i> , 2022, 9, 2116-2120.	4.5	3
68	Design, synthesis, and evaluation of a novel series of mono-indolylbenzoquinones derivatives for the potential treatment of breast cancer. <i>European Journal of Medicinal Chemistry</i> , 2022, 237, 114375.	5.5	3
69	Efficient Acylation and One-Pot Synthesis of Dehydroandrographolide Succinate on a Large Scale Assisted with Microwave Radiation. <i>Synthetic Communications</i> , 2009, 39, 3444-3452.	2.1	2
70	Synthesis of Isoxazolines and Isoxazoles via Metal-Free Desulfitative Cyclization. <i>Synthesis</i> , 2018, 50, 2385-2393.	2.3	2
71	Design, Synthesis, and Antitumor Activity of a Series of Novel 4-(Aromatic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 Td (Sulfon	3.8	2
72	Effect of Y-doping on the piezoelectric properties of $(1-x)\text{BiScO}_3-x\text{PbTiO}_3$ high-temperature piezoelectric ceramics. , 2009, , .		1

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73	Particulate Matter Adsorbants: Renewable Lanthanide Ionic Liquid/Polymer Composites for High Efficient Adsorption of Particulate Matter (Adv. Mater. Interfaces 1/2018). Advanced Materials Interfaces, 2018, 5, 1870002.	3.7	1
74	Synthesis and Antitumor Activity of a Series of Novel 1-Oxa-4-azaspiro[4,5]deca-6,9-diene-3,8-dione Derivatives. Molecules, 2019, 24, 936.	3.8	1
75	Methicillin-Resistant Staphylococcus Aureus (MRSA) Pyruvate Kinase (PK) Inhibitors and their Antimicrobial Activities. Current Medicinal Chemistry, 2022, 29, 908-923.	2.4	1
76	Facile synthesis of unsymmetrical N-aryl-2,2-di(1H-indol-3-yl) acetamide derivatives. Chemical Research in Chinese Universities, 2016, 32, 959-966.	2.6	0
77	Automatic Emotion Recognition in Speech Signal Using Teager Energy Operator and MFCC Features. , 2011, , 2315-2319.		0