

Qinghua Zhang

List of Publications by Citations

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183
papers

9,156
citations

43
h-index

92
g-index

201
ext. papers

10,924
ext. citations

7.8
avg, IF

6.68
L-index

#	Paper	IF	Citations
183	Deep eutectic solvents: syntheses, properties and applications. <i>Chemical Society Reviews</i> , 2012 , 41, 7108-7145	46.5	2679
182	Recent advances in ionic liquid catalysis. <i>Green Chemistry</i> , 2011 , 13, 2619	10	535
181	Energetic ionic liquids as explosives and propellant fuels: a new journey of ionic liquid chemistry. <i>Chemical Reviews</i> , 2014 , 114, 10527-74	68.1	378
180	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
179	From CO oxidation to CO ₂ activation: an unexpected catalytic activity of polymer-supported nanogold. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4182-3	16.4	219
178	Silica-gel-confined ionic liquids: a new attempt for the development of supported nanoliquid catalysis. <i>Chemistry - A European Journal</i> , 2005 , 11, 5279-88	4.8	196
177	Dancing with Energetic Nitrogen Atoms: Versatile N-Functionalization Strategies for N-Heterocyclic Frameworks in High Energy Density Materials. <i>Accounts of Chemical Research</i> , 2016 , 49, 4-16	24.3	184
176	Metal-organic frameworks as high explosives: a new concept for energetic materials. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2540-2	16.4	168
175	Accelerating the discovery of insensitive high-energy-density materials by a materials genome approach. <i>Nature Communications</i> , 2018 , 9, 2444	17.4	159
174	A promising high-energy-density material. <i>Nature Communications</i> , 2017 , 8, 181	17.4	141
173	Solubilities of the Gaseous and Liquid Solutes and Their Thermodynamics of Solubilization in the Novel Room-Temperature Ionic Liquids at Infinite Dilution by Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2277-2283	2.8	122
172	Physicochemical properties of nitrile-functionalized ionic liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2864-72	3.4	119
171	Beyond solvents and electrolytes: Ionic liquids-based advanced functional materials. <i>Progress in Materials Science</i> , 2016 , 77, 80-124	42.2	109
170	Deep eutectic solvents as novel extraction media for phenolic compounds from model oil. <i>Chemical Communications</i> , 2014 , 50, 11749-52	5.8	107
169	Fused heterocycle-based energetic materials (2012-2019). <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4193-4216	13	100
168	Ionic liquid as an efficient promoting medium for fixation of carbon dioxide: a clean method for the synthesis of 5-methylene-1,3-oxazolidin-2-ones from propargylic alcohols, amines, and carbon dioxide catalyzed by Cu(I) under mild conditions. <i>Journal of Organic Chemistry</i> , 2005 , 70, 7376-80	4.2	93
167	Green and inexpensive choline-derived solvents for cellulose decrystallization. <i>Chemistry - A European Journal</i> , 2012 , 18, 1043-6	4.8	92

166	Ionic liquid propellants: future fuels for space propulsion. <i>Chemistry - A European Journal</i> , 2013 , 19, 15446-51	4.8	79
165	Cyanoborohydride-based ionic liquids as green aerospace bipropellant fuels. <i>Chemistry - A European Journal</i> , 2014 , 20, 6909-14	4.8	76
164	Depolymerization of cellulose assisted by a nonthermal atmospheric plasma. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8964-7	16.4	76
163	Shape-controlled nanostructured magnetite-type materials as highly efficient Fenton catalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 739-749	21.8	75
162	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na N and Na N Nanocages. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2592-2595	16.4	74
161	Pretreatment of microcrystalline cellulose by ultrasounds: effect of particle size in the heterogeneously-catalyzed hydrolysis of cellulose to glucose. <i>Green Chemistry</i> , 2013 , 15, 963	10	74
160	Biodegradation and detoxification of Direct Black G textile dye by a newly isolated thermophilic microflora. <i>Bioresource Technology</i> , 2018 , 250, 650-657	11	70
159	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
158	A green metal-free fused-ring initiating substance. <i>Nature Communications</i> , 2019 , 10, 1339	17.4	68
157	Nanocomposites of ionic liquids confined in mesoporous silica gels: preparation, characterization and performance. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1971-81	3.6	67
156	Growing catenated nitrogen atom chains. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8792-4	16.4	66
155	Mechanocatalytic deconstruction of cellulose: an emerging entry into biorefinery. <i>ChemSusChem</i> , 2013 , 6, 2042-4	8.3	64
154	Energetic N-trinitroethyl-substituted mono-, di-, and triaminotetrazoles. <i>Chemistry - A European Journal</i> , 2013 , 19, 11000-6	4.8	64
153	A luminescent heterometallic metal-organic framework for the naked-eye discrimination of nitroaromatic explosives. <i>Chemical Communications</i> , 2017 , 53, 10318-10321	5.8	63
152	Novel cyclic sulfonium-based ionic liquids: synthesis, characterization, and physicochemical properties. <i>Chemistry - A European Journal</i> , 2009 , 15, 765-78	4.8	63
151	Exploiting hydrophobic borohydride-rich ionic liquids as faster-igniting rocket fuels. <i>Chemical Communications</i> , 2016 , 52, 2031-4	5.8	56
150	Investigation of cation-anion interaction in 1-(2-hydroxyethyl)-3-methylimidazolium-based ion pairs by density functional theory calculations and experiments. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 248-257	2.1	56
149	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

148	Effect of organic loading rate on anaerobic co-digestion of rice straw and pig manure with or without biological pretreatment. <i>Bioresource Technology</i> , 2018 , 250, 155-162	11	54
147	Activation of microcrystalline cellulose in a CO ₂ -based switchable system. <i>ChemSusChem</i> , 2013 , 6, 593-63		53
146	Efficient and eco-friendly process for the synthesis of N-substituted 4-methylene-2-oxazolidinones in ionic liquids. <i>Tetrahedron Letters</i> , 2005 , 46, 5907-5911	2	52
145	Synthesis of carbamates from aliphatic amines and dimethyl carbonate catalyzed by acid functional ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2007 , 271, 89-92		50
144	Dialkoxy functionalized quaternary ammonium ionic liquids as potential electrolytes and cellulose solvents. <i>New Journal of Chemistry</i> , 2011 , 35, 1596	3.6	48
143	The influence of the acidity of ionic liquids on catalysis. <i>ChemSusChem</i> , 2010 , 3, 1043-7	8.3	47
142	Solvent-dependent photoresponsive conductivity of azobenzene-appended ionic liquids. <i>Chemical Communications</i> , 2011 , 47, 6641-3	5.8	46
141	Selective detection of picric acid by a fluorescent ionic liquid chemosensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 520-527	8.5	44
140	Development of Ionic Liquids as Green Reaction Media and Catalysts. <i>Catalysis Surveys From Asia</i> , 2004 , 8, 179-186	2.8	41
139	Bis(borano)hypophosphite-based ionic liquids as ultrafast-igniting hypergolic fuels. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8978-8982	13	41
138	Hunting for advanced high-energy-density materials with well-balanced energy and safety through an energetic host-guest inclusion strategy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19248-19257	13	40
137	Photochromism of spiropyran in ionic liquids: enhanced fluorescence and delayed thermal reversion. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6012-9	3.4	39
136	Novel Ionic Liquid Crystals Based on N-Alkylcaprolactam as Cations. <i>Chemistry of Materials</i> , 2007 , 19, 2544-2550	9.6	37
135	Silica Gel Confined Ionic Liquid+Metal Complexes for Oxygen-Free Carbonylation of Amines and Nitrobenzene to Ureas. <i>Advanced Synthesis and Catalysis</i> , 2005 , 347, 225-230	5.6	37
134	Synthesis of 1-(2H-tetrazol-5-yl)-5-nitraminotetrazole and its derivatives from 5-aminotetrazole and cyanogen azide: a promising strategy towards the development of CN ₄ linked bistetrazolate energetic materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20867-20873	13	36
133	Insensitive nitrogen-rich materials incorporating the nitroguanidyl functionality. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 212-7	4.5	36
132	Greatly enhanced fluorescence of dicyanamide anion based ionic liquids confined into mesoporous silica gel. <i>Chemical Physics Letters</i> , 2008 , 461, 229-234	2.5	36
131	Biodegradable betaine-based aprotic task-specific ionic liquids and their application in efficient SO ₂ absorption. <i>Green Chemistry</i> , 2015 , 17, 3798-3805	10	34

130	5,6-Fused bicyclic tetrazolo-pyridazine energetic materials. <i>Chemical Communications</i> , 2020 , 56, 1493-1496	3.6	34
129	Construction of a Thermally Stable and Highly Energetic Metal-Organic Framework as Lead-Free Primary Explosives. <i>Crystal Growth and Design</i> , 2018 , 18, 1896-1902	3.5	33
128	Exploring Sustainable Rocket Fuels: [Imidazolyl-Amine-BH ₂](+)-Cation-Based Ionic Liquids as Replacements for Toxic Hydrazine Derivatives. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2725-32	4.5	33
127	Super-base-derived hypergolic ionic fuels with remarkably improved thermal stability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20664-20672	13	31
126	Ionic liquid based variable focus lenses. <i>Soft Matter</i> , 2011 , 7, 5941	3.6	31
125	Supramolecular Templating Approach for the Solvent-Free Synthesis of Open-Framework Metal Oxalates. <i>Inorganic Chemistry</i> , 2016 , 55, 7817-9	5.1	30
124	Exploiting the energetic potential of 1,2,4-oxadiazole derivatives: combining the benefits of a 1,2,4-oxadiazole framework with various energetic functionalities. <i>Dalton Transactions</i> , 2017 , 46, 14210-14218	4.3	30
123	Towards Safer Rocket Fuels: Hypergolic Imidazolylidene-Borane Compounds as Replacements for Hydrazine Derivatives. <i>Chemistry - A European Journal</i> , 2016 , 22, 10187-93	4.8	30
122	High density assembly of energetic molecules under the constraint of defected 2D materials. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17806-17814	13	29
121	Developing effective catalyst system for reductive carbonylation of nitrobenzene based on the diversity of ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2006 , 244, 64-67		28
120	Synthesis of Thermally Stable and Insensitive Energetic Materials by Incorporating the Tetrazole Functionality into a Fused-Ring 3,6-Dinitropyrazolo-[4,3-]Pyrazole Framework. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45914-45921	9.5	27
119	Fluorescent quinolininium ionic liquids (salts) with unexpectedly high quantum yields up to >99%. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8979		27
118	Ionic liquid-modified dyes and their sensing performance toward acids in aqueous and non-aqueous solutions. <i>Analyst, The</i> , 2011 , 136, 1302-4	5	26
117	A simple and versatile strategy for taming FOX-7. <i>Chemical Communications</i> , 2018 , 54, 9333-9336	5.8	25
116	Synthesis of gem-Dinitromethylated and Fluorodinitromethylated Derivatives of 5,5'-Dinitro-bis-1,2,4-triazole as Promising High-Energy-Density Materials. <i>Chemistry - A European Journal</i> , 2017 , 23, 12787-12794	4.8	24
115	Molecular design and property prediction of high density polynitro[3.3.3]-propellane-derivatized frameworks as potential high explosives. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10857-65	2.8	24
114	Exploration of new water stable proton-conducting materials in an amino acid-templated metal phosphate system. <i>Dalton Transactions</i> , 2018 , 47, 654-658	4.3	24
113	Long-chain alkylimidazolium ionic liquids, a new class of cationic surfactants coated on ODS columns for anion-exchange chromatography. <i>Journal of Separation Science</i> , 2008 , 31, 2791-6	3.4	23

112	Synthesis of dialkyl hexamethylenedicarbamate from 1,6-hexamethylenediamine and alkyl carbamate over $Y(NO_3)_3 \cdot 6H_2O$ catalyst. <i>Journal of Molecular Catalysis A</i> , 2008 , 296, 36-41		23
111	A promising hydrogen peroxide adduct of ammonium cyclopentazolate as a green propellant component. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12334-12338	13	22
110	Isothermal Synthesis of Open-Framework Metal Phosphates Using a Multifunctional Ionic Liquid. <i>Inorganic Chemistry</i> , 2018 , 57, 8726-8729	5.1	22
109	Green primary energetic materials based on N-(3-nitro-1-(trinitromethyl)-1H-1,2,4-triazol-5-yl)nitramide. <i>New Journal of Chemistry</i> , 2017 , 41, 9070-9076	3.6	22
108	Co(acac) ₃ /BMMImCl as a base-free catalyst system for clean syntheses of N,N'-disubstituted ureas from amines and CO ₂ . <i>Science China Chemistry</i> , 2010 , 53, 1534-1540	7.9	21
107	Combination of gem-dinitromethyl functionality and a 5-amino-1,3,4-oxadiazole framework for zwitterionic energetic materials. <i>Chemical Communications</i> , 2019 , 56, 209-212	5.8	21
106	Heterometallic Hybrid Open Frameworks: Synthesis and Application for Selective Detection of Nitro Explosives. <i>Crystal Growth and Design</i> , 2017 , 17, 1836-1842	3.5	20
105	Melamine N-oxide based self-assembled energetic materials with balanced energy & sensitivity and enhanced combustion behavior. <i>Chemical Engineering Journal</i> , 2020 , 395, 125114	14.7	20
104	The ignition process measurements and performance evaluations for hypergolic ionic liquid fuels: [EMIm][DCA] and [BMIm][DCA]. <i>Fuel</i> , 2018 , 215, 612-618	7.1	20
103	Construction of an Unusual Two-Dimensional Layered Structure for Fused-Ring Energetic Materials with High Energy and Good Stability. <i>Engineering</i> , 2020 , 6, 1006-1012	9.7	19
102	Synthesis of 4,8-Dinitraminodifurazano[3, 4-b,e]pyrazine Derived Nitrogen-Rich Salts as Potential Energetic Materials. <i>ChemistrySelect</i> , 2018 , 3, 849-854	1.8	19
101	Enhanced and reversible contact angle modulation of ionic liquids in oil and under AC electric field. <i>ChemPhysChem</i> , 2010 , 11, 2327-31	3.2	19
100	Iodocuprate-containing ionic liquids as promoters for green propulsion. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22819-22829	13	19
99	Nitrato-Functionalized Task-Specific Ionic Liquids as Attractive Hypergolic Rocket Fuels. <i>Chemistry - A European Journal</i> , 2017 , 23, 12502-12509	4.8	18
98	Revisiting the reactive chemistry of FOX-7: cyclization of FOX-7 affords the fused-ring polynitro compounds. <i>Chemical Communications</i> , 2019 , 55, 3497-3500	5.8	18
97	Bis(4-nitraminofurazanyl-3-azoxy)azofurazan and Derivatives: 1,2,5-Oxadiazole Structures and High-Performance Energetic Materials. <i>Angewandte Chemie</i> , 2016 , 128, 11720-11723	3.6	18
96	Coulomb explosion and ultra-fast hypergolic ignition of borohydride-rich ionic liquids with WFNA. <i>Combustion and Flame</i> , 2018 , 194, 464-471	5.3	18
95	[LiNa(N ₅) ₂ (H ₂ O) ₄](H ₂ O): a novel heterometallic cyclo-($\{N\}_5^-$) framework with helical chains. <i>Science China Materials</i> , 2019 , 62, 283-288	7.1	17

94	Fabrication of UV-curable silicone coating with high transmittance and laser-induced damage threshold for high-power laser system. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 88, 249-254	2.3	17
93	Enhanced butanol production by solvent tolerance <i>Clostridium acetobutylicum</i> SE25 from cassava flour in a fibrous bed bioreactor. <i>Bioresource Technology</i> , 2016 , 221, 412-418	11	16
92	Fluorescent heterometallic MOFs: tunable framework charges and application for explosives detection. <i>CrystEngComm</i> , 2016 , 18, 8301-8308	3.3	16
91	Hydrophobic 1-allyl-3-alkylimidazolium dicyanamide ionic liquids with low densities. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6864		15
90	Ionic liquidized-naphthalenesulfonamide: successful fabrication of liquid fluorescent materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16335		15
89	Genome and transcriptome analysis of a newly isolated azo dye degrading thermophilic strain <i>Anoxybacillus</i> sp. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 203, 111047	7	15
88	Rational Design and Facile Synthesis of Boranophosphate Ionic Liquids as Hypergolic Rocket Fuels. <i>Chemistry - A European Journal</i> , 2018 , 24, 10201	4.8	14
87	Metall-organische Gerüstverbindungen als Explosivstoffe: ein neues Konzept für energetische Materialien. <i>Angewandte Chemie</i> , 2014 , 126, 2574-2576	3.6	14
86	Microporous Metal-Organic Frameworks Based on Zinc Clusters and Their Fluorescence Enhancements towards Acetone and Chloroform. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 3411-3416	2.3	14
85	Towards N-Alkylimidazole Borane-based Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3528-3533	4.3	14
84	Decoding the crystal engineering of graphite-like energetic materials: from theoretical prediction to experimental verification. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5975-5985	13	13
83	Interfacial engineering endowing energetic co-particles with high density and reduced sensitivity. <i>Chemical Engineering Journal</i> , 2020 , 387, 124209	14.7	13
82	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na ₂₀ N ₆₀ and Na ₂₄ N ₆₀ Nanocages. <i>Angewandte Chemie</i> , 2018 , 130, 2622-2625	3.6	13
81	Synthesis and Properties of Triaminocyclopropenium Cation Based Ionic Liquids as Hypergolic Fluids. <i>Chemistry - A European Journal</i> , 2018 , 24, 4620-4627	4.8	13
80	Ionic Liquid-Mediated Fe ₂ O ₃ Shape-Controlled Nanocrystal-Supported Noble Metals: Highly Active Materials for CO Oxidation. <i>ChemCatChem</i> , 2013 , 5, 1978-1988	5.2	13
79	The roles of endoplasmic reticulum overload response induced by HCV and NS4B protein in human hepatocyte viability and virus replication. <i>PLoS ONE</i> , 2015 , 10, e0123190	3.7	13
78	Construction of hydrothermally stable beryllium phosphite open-frameworks with high proton conductivity. <i>CrystEngComm</i> , 2017 , 19, 3997-4002	3.3	12
77	Exploration of the key microbes involved in the cellulolytic activity of a microbial consortium by serial dilution. <i>Bioresource Technology</i> , 2013 , 132, 395-400	11	12

76	Insight into the Characteristics and New Mechanism of Nicosulfuron Biodegradation by a sp. LAM1902. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 826-837	5.7	12
75	Detoxification of azo dye Direct Black G by thermophilic Anoxybacillus sp. PDR2 and its application potential in bioremediation. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 214, 112084	7	12
74	A facile strategy for synthesizing promising pyrazole-fused energetic compounds. <i>Chemical Engineering Journal</i> , 2021 , 416, 129190	14.7	12
73	Energetic Metal-Organic Frameworks Incorporating NHOH for New High-Energy-Density Materials. <i>Inorganic Chemistry</i> , 2019 , 58, 12228-12233	5.1	11
72	Integrated metagenomic and metaproteomic analyses reveal potential degradation mechanism of azo dye-Direct Black G by thermophilic microflora. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 196, 110557	7	11
71	Synthesis of efficient SBA-15 immobilized ionic liquid catalyst and its performance for Friedel-Crafts reaction. <i>Catalysis Today</i> , 2016 , 276, 112-120	5.3	11
70	Enhancement of butanol production in Clostridium acetobutylicum SE25 through accelerating phase shift by different phases pH regulation from cassava flour. <i>Bioresource Technology</i> , 2016 , 201, 148-55	11	11
69	Exploration of the key functional strains from an azo dye degradation microbial community by DGGE and high-throughput sequencing technology. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 24658-24671	5.1	11
68	Organic superbase derived ionic liquids based on the TFSI anion: synthesis, characterization, and electrochemical properties. <i>New Journal of Chemistry</i> , 2017 , 41, 5091-5097	3.6	10
67	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
66	Tandem-action Ferrocenyl iodocuprates promoting low temperature hypergolic ignitions of Green EIL H ₂ O ₂ bipropellants. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14661-14670	13	10
65	Synthesis of fused tetrazolo[1,5-b]pyridazine-based energetic compounds. <i>Energetic Materials Frontiers</i> , 2020 , 1, 16-25	3.3	10
64	Isolation of new flavan-3-ol and lignan glucoside from Loropetalum chinense and their antimicrobial activities. <i>Phytotherapy</i> , 2013 , 90, 228-32	3.2	10
63	In Situ Encapsulation of Imidazolium Proton Carriers in Anionic Open Frameworks Leads the Way to Proton-Conducting Materials. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2295-2300	2.3	9
62	Experimental Observation of Hypergolic Ignition of Superbase-Derived Ionic Liquids. <i>Journal of Propulsion and Power</i> , 2018 , 34, 125-132	1.8	9
61	Designing Explosive Poly(Ionic Liquid)s as Novel Energetic Polymers. <i>Chemistry - A European Journal</i> , 2018 , 24, 15897-15902	4.8	9
60	Construction of Bicyclic 1,2,3-Triazine -Oxides from Aminocyanides. <i>Organic Letters</i> , 2021 , 23, 734-738	6.2	9
59	[1,2,4]Triazolo[4,3-b]pyridazine as a building block towards low-sensitivity high-energy materials. <i>Chemical Engineering Journal</i> , 2021 , 421, 129635	14.7	9

58	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
57	Carborane-Derivatized Low-Melting Salts with Ether-Functionalized Cations [Preparation and Properties. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1910-1920	2.3	8
56	Energetic isomers of bridged oxadiazole nitramines: the effect of asymmetric heterocyclics on stability and energetic properties. <i>Dalton Transactions</i> , 2021 , 50, 13286-13293	4.3	8
55	Fabrication of protonated g-CN nanosheets as promising proton conductive materials. <i>Chemical Communications</i> , 2019 , 55, 7414-7417	5.8	7
54	Comparative assessment of the methanogenic steps of single and two-stage processes without or with a previous hydrolysis of cassava distillage. <i>Bioresource Technology</i> , 2013 , 147, 1-6	11	7
53	Wachsende Ketten aus catenierten Stickstoffatomen. <i>Angewandte Chemie</i> , 2013 , 125, 8954-8956	3.6	7
52	Anaerobic Co-digestion of Rice Straw and Pig Manure Pretreated With a Cellulolytic Microflora: Methane Yield Evaluation and Kinetics Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 579405	5.8	7
51	Effect of bioaugmentation on lignocellulose degradation and antibiotic resistance genes removal during biogas residues composting. <i>Bioresource Technology</i> , 2021 , 340, 125742	11	7
50	From energetic cobalt pentazolate to cobalt@nitrogen-doped carbons as efficient electrocatalysts for oxygen reduction. <i>Science China Materials</i> , 2019 , 62, 1403-1411	7.1	6
49	Electrically Switchable Capillarity of Ionic Liquids. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 2069-2078	2	6
48	A sustainable system for maleic acid synthesis from biomass-derived sugar. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 751-757	3.5	6
47	Self-Assembly of Nitrogen-Rich Heterocyclic Compounds with Oxidants for the Development of High-Energy Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28390-28397	9.5	6
46	Effects of Nanosized Metals and Metal Oxides on the Thermal Behaviors of Insensitive High Energetic Compound ICM-102. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31108-31118	3.8	6
45	Evaluation of bioremediation and detoxification potentiality for papermaking black liquor by a new isolated thermophilic and alkali-tolerant <i>Serratia</i> sp. AXJ-M. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124285	12.8	6
44	Water stable oxalate-based coordination polymers with in situ generated cyclic dipeptides showing high proton conductivity. <i>Dalton Transactions</i> , 2018 , 47, 15288-15292	4.3	6
43	From the sensitive primary explosive ICM-103 to insensitive heat-resistant energetic materials through a local azide-to-amino structural modification strategy. <i>Chemical Engineering Journal</i> , 2022 , 429, 132172	14.7	6
42	Exploration of the key functional proteins from an efficient cellulolytic microbial consortium using dilution-to-extinction approach. <i>Journal of Environmental Sciences</i> , 2016 , 43, 199-207	6.4	5
41	Cellulolytic Microflora Pretreatment Increases the Efficiency of Anaerobic Co-digestion of Rice Straw and Pig Manure. <i>Bioenergy Research</i> , 2019 , 12, 703-713	3.1	5

40	Regulating safety and energy release of energetic materials by manipulation of molybdenum disulfide phase. <i>Chemical Engineering Journal</i> , 2021 , 411, 128603	14.7	5
39	New Insight into the Aromaticity of cyclo-N5 ⁺ by Constructing 3D Arrays in Crystal Structures. <i>Crystal Growth and Design</i> , 2021 , 21, 33-39	3.5	5
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