Qinghua 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.

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	Unique thermal and combustion behaviors of composite propellants containing a high-energy insensitive nitropyrimidine derivative. *Combustion and Flame*, **2022**, 237, 111855	5.3	1
182	Simple reaction to prepare a heat-resistant and insensitive explosive (2-nitro-[1,2,4]triazolo[1,5-a][1,3,5]triazine-5,7-diamine) and its derivatives. *Chemical Engineering Journal*, **2022**, 432, 134297	14.7	2
181	Hydrogen bonding distribution and its effect on sensitivity of planar tricyclic polyazole energetic materials. *Chemical Engineering Journal*, **2022**, 433, 134479	14.7	1
180	From the sensitive primary explosive ICM-103 to insensitive heat-resistant energetic materials through a local azide-to-amino structural modification strategy. *Chemical Engineering Journal*, **2022**, 429, 132172	14.7	6
179	Novel thermo-alkali-stable cellulase-producing Serratia sp. AXJ-M cooperates with Arthrobacter sp. AXJ-M1 to improve degradation of cellulose in papermaking black liquor. *Journal of Hazardous Materials*, **2022**, 421, 126811	12.8	2
178	Molecular and crystal insights into the structural design of low-sensitivity energetic materials. *Theoretical and Computational Chemistry*, **2022**, 435-458		
177	Machine Learning-Assisted High-Throughput Virtual Screening for On-Demand Customization of Advanced Energetic Materials. *Engineering*, **2022**,	9.7	1
176	A heat-resistant and insensitive energetic material based on the pyrazolo-triazine framework. *Energetic Materials Frontiers*, **2022**, 3, 26-31	3.3	1
175	Synthesis of Ideal Energetic Materials with High Density and Performance Based on 5-Aminotetrazole. *Crystal Growth and Design*, **2022**, 22, 2594-2601	3.5	3
174	Self-assembly of iodine-containing oxidants with nitrogen-rich heterocyclic compounds for novel energetic biocidal agents. *Chemical Engineering Journal*, **2022**, 442, 136326	14.7	1
173	Recent advances in the treatment of lignin in papermaking wastewater.. *World Journal of Microbiology and Biotechnology*, **2022**, 38, 116	4.4	1
172	Effects of revegetation on the composition and diversity of bacterial and fungal communities of sandification land soil, in Southern China. *Environmental Monitoring and Assessment*, **2021**, 193, 706	3.1	0
171	Hunting for Energetic Complexes as Hypergolic Promoters for Green Propellants Using Hydrogen Peroxide as Oxidizer. *Inorganic Chemistry*, **2021**, 60, 17033-17039	5.1	2
170	Structural Analysis and Controllable Fabrication of Two Pentazolate-Based 3D Topological Networks. *Inorganic Chemistry*, **2021**, 60, 8409-8413	5.1	2
169	Enhancement of Butanol Production in a Newly Selected Strain through Accelerating Phase Shift by Different Phases C/N Ratio Regulation from Puerariae Slag Hydrolysate. *Biotechnology and Bioprocess Engineering*, **2021**, 26, 256-264	3.1	
168	Detoxification of azo dye Direct Black G by thermophilic Anoxybacillus sp. PDR2 and its application potential in bioremediation. *Ecotoxicology and Environmental Safety*, **2021**, 214, 112084	7	12
167	Regulating safety and energy release of energetic materials by manipulation of molybdenum disulfide phase. *Chemical Engineering Journal*, **2021**, 411, 128603	14.7	5

166	Self-Assembly of Nitrogen-Rich Heterocyclic Compounds with Oxidants for the Development of High-Energy Materials. *ACS Applied Materials & Interfaces*, **2021**, 13, 28390-28397	9.5	6
165	Dye-assembled two-dimensional porous HMX for enhanced energy release and safety performance. *Energetic Materials Frontiers*, **2021**, 2, 139-146	3.3	4
164	A facile strategy for synthesizing promising pyrazole-fused energetic compounds. *Chemical Engineering Journal*, **2021**, 416, 129190	14.7	12
163	Evaluation of bioremediation and detoxification potentiality for papermaking black liquor by a new isolated thermophilic and alkali-tolerant Serratia sp. AXJ-M. *Journal of Hazardous Materials*, **2021**, 406, 124285	12.8	6
162	Construction of Bicyclic 1,2,3-Triazine -Oxides from Aminocyanides. *Organic Letters*, **2021**, 23, 734-738	6.2	9
161	Cellulolytic bacterium characterization and genome functional analysis: An attempt to lay the foundation for waste management. *Bioresource Technology*, **2021**, 321, 124462	11	4
160	New Insight into the Aromaticity of cyclo-N5 by Constructing 3D Arrays in Crystal Structures. *Crystal Growth and Design*, **2021**, 21, 33-39	3.5	5
159	Predictive Modelling of Sugar Release from Blended Garden Wastes in a Microwave-Assisted Hot Water Process. *Waste and Biomass Valorization*, **2021**, 12, 3009-3018	3.2	1
158	Energetic isomers of bridged oxadiazole nitramines: the effect of asymmetric heterocyclics on stability and energetic properties. *Dalton Transactions*, **2021**, 50, 13286-13293	4.3	8
157	Recent advances in synthesis and crystal structures of metal pentazolate salts. *CrystEngComm*, **2021**, 23, 5551-5559	3.3	1
156	Synthesis of nitrogen-rich and thermostable energetic materials based on hetarenecarboxylic acids. *Dalton Transactions*, **2021**, 50, 14462-14468	4.3	3
155	Cationic effect on properties related to thermal stability and ignition delay for hypergolic ionic liquids. *Journal of Molecular Liquids*, **2021**, 336, 116572	6	1
154	[1,2,4]Triazolo[4,3-b]pyridazine as a building block towards low-sensitivity high-energy materials. *Chemical Engineering Journal*, **2021**, 421, 129635	14.7	9
153	From heart drug to propellant fuels: Designing nitroglycerin-ionic liquid composite as green high-energy hypergolic fluids. *Combustion and Flame*, **2021**, 233, 111597	5.3	0
152	Effect of bioaugmentation on lignocellulose degradation and antibiotic resistance genes removal during biogas residues composting. *Bioresource Technology*, **2021**, 340, 125742	11	7
151	Multi-parallel microfluidic recrystallization and characterization of explosives. *Energetic Materials Frontiers*, **2021**, 2, 278-286	3.3	2
150	A promising hydrogen peroxide adduct of ammonium cyclopentazolate as a green propellant component. *Journal of Materials Chemistry A*, **2020**, 8, 12334-12338	13	22
149	Construction of an Unusual Two-Dimensional Layered Structure for Fused-Ring Energetic Materials with High Energy and Good Stability. *Engineering*, **2020**, 6, 1006-1012	9.7	19

148	Theoretical Study on Hydrolytic Stability of Borohydride-Rich Hypergolic Ionic Liquids. *Journal of Physical Chemistry A*, **2020**, 124, 2942-2950	2.8	4
147	Tandem-action ferrocenyl iodocuprates promoting low temperature hypergolic ignitions of green EIL/H2O2 bipropellants. *Journal of Materials Chemistry A*, **2020**, 8, 14661-14670	13	10
146	Synthesis of fused tetrazolo[1,5-b]pyridazine-based energetic compounds. *Energetic Materials Frontiers*, **2020**, 1, 16-25	3.3	10
145	Fused heterocycle-based energetic materials (2012–2019). *Journal of Materials Chemistry A*, **2020**, 8, 4193-4216	13	100
144	Template-Free Fabrication of Refractive Index Tunable Polysiloxane Coating Using Homogeneous Embedding Strategy: Application in High-Power Laser System. *Nanomaterials*, **2020**, 10,	5.4	3
143	Decoding the crystal engineering of graphite-like energetic materials: from theoretical prediction to experimental verification. *Journal of Materials Chemistry A*, **2020**, 8, 5975-5985	13	13
142	Interfacial engineering endowing energetic co-particles with high density and reduced sensitivity. *Chemical Engineering Journal*, **2020**, 387, 124209	14.7	13
141	Synthesis and Properties of 3,6-Dinitropyrazolo[4,3-c]-pyrazole (DNPP) Derivatives. *Propellants, Explosives, Pyrotechnics*, **2020**, 45, 546-553	1.7	8
140	Integrated metagenomic and metaproteomic analyses reveal potential degradation mechanism of azo dye-Direct Black G by thermophilic microflora. *Ecotoxicology and Environmental Safety*, **2020**, 196, 110557	7	11
139	Melamine N-oxide based self-assembled energetic materials with balanced energy & sensitivity and enhanced combustion behavior. *Chemical Engineering Journal*, **2020**, 395, 125114	14.7	20
138	Effects of alkyl chains on the physicochemical properties of nitroguanidine derivatives. *Energetic Materials Frontiers*, **2020**, 1, 157-164	3.3	4
137	A sustainable system for maleic acid synthesis from biomass-derived sugar. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 751-757	3.5	6
136	5,6-Fused bicyclic tetrazolo-pyridazine energetic materials. *Chemical Communications*, **2020**, 56, 1493-1496	5.8	34
135	Insight into the Characteristics and New Mechanism of Nicosulfuron Biodegradation by a sp. LAM1902. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 826-837	5.7	12
134	A pentazolate-based bowl-shaped molecular container. *Dalton Transactions*, **2020**, 49, 17542-17546	4.3	3
133	Depolymerization of holocellulose from Chinese herb residues by the mixture of lignin-derived deep eutectic solvent with water. *Carbohydrate Polymers*, **2020**, 248, 116793	10.3	4
132	Genome and transcriptome analysis of a newly isolated azo dye degrading thermophilic strain Anoxybacillus sp. *Ecotoxicology and Environmental Safety*, **2020**, 203, 111047	7	15
131	Acetone, butanol, and ethanol production from puerariae slag hydrolysate through ultrasound-assisted dilute acid by Clostridium beijerinckii YBS3. *Bioresource Technology*, **2020**, 316, 123899	11	3

130	Anaerobic Co-digestion of Rice Straw and Pig Manure Pretreated With a Cellulolytic Microflora: Methane Yield Evaluation and Kinetics Analysis. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 579405	5.8	7
129	Energetic Metal-Organic Frameworks Incorporating NHOH for New High-Energy-Density Materials. *Inorganic Chemistry*, **2019**, 58, 12228-12233	5.1	11
128	Exploring the reactive chemistry of FOX-7: synthesis of cyclic triazinane-based energetic materials featuring the FOX-7 backbone. *New Journal of Chemistry*, **2019**, 43, 10429-10433	3.6	2
127	Fabrication of protonated g-CN nanosheets as promising proton conductive materials. *Chemical Communications*, **2019**, 55, 7414-7417	5.8	7
126	A green metal-free fused-ring initiating substance. *Nature Communications*, **2019**, 10, 1339	17.4	68
125	Synthesis and hypergolic properties of flammable ionic liquids based on the cyano (1H-1,2,3-triazole-1-yl) dihydroborate anion. *Dalton Transactions*, **2019**, 48, 6198-6204	4.3	10
124	Revisiting the reactive chemistry of FOX-7: cyclization of FOX-7 affords the fused-ring polynitro compounds. *Chemical Communications*, **2019**, 55, 3497-3500	5.8	18
123	[LiNa(N5)2(H2O)4]□H2O: a novel heterometallic cyclo-(rm{N}_5^-) framework with helical chains. *Science China Materials*, **2019**, 62, 283-288	7.1	17
122	Cellulolytic Microflora Pretreatment Increases the Efficiency of Anaerobic Co-digestion of Rice Straw and Pig Manure. *Bioenergy Research*, **2019**, 12, 703-713	3.1	5
121	From energetic cobalt pentazolate to cobalt@nitrogen-doped carbons as efficient electrocatalysts for oxygen reduction. *Science China Materials*, **2019**, 62, 1403-1411	7.1	6
120	Hunting for advanced high-energy-density materials with well-balanced energy and safety through an energetic host□guest inclusion strategy. *Journal of Materials Chemistry A*, **2019**, 7, 19248-19257	13	40
119	Exploration of the key functional strains from an azo dye degradation microbial community by DGGE and high-throughput sequencing technology. *Environmental Science and Pollution Research*, **2019**, 26, 24658-24671	5.1	11
118	High density assembly of energetic molecules under the constraint of defected 2D materials. *Journal of Materials Chemistry A*, **2019**, 7, 17806-17814	13	29
117	Synthesis of Thermally Stable and Insensitive Energetic Materials by Incorporating the Tetrazole Functionality into a Fused-Ring 3,6-Dinitropyrazolo-[4,3-]Pyrazole Framework. *ACS Applied Materials & Interfaces*, **2019**, 11, 45914-45921	9.5	27
116	Dressing technology of arc diamond wheel by roll abrading in aspheric parallel grinding. *International Journal of Advanced Manufacturing Technology*, **2019**, 105, 2699-2706	3.2	1
115	sp. nov., isolated from a sulfonylurea herbicide-degrading consortium enriched with saline soil. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 3910-3916	2.2	1
114	Combination of gem-dinitromethyl functionality and a 5-amino-1,3,4-oxadiazole framework for zwitterionic energetic materials. *Chemical Communications*, **2019**, 56, 209-212	5.8	21
113	Effects of Nanosized Metals and Metal Oxides on the Thermal Behaviors of Insensitive High Energetic Compound ICM-102. *Journal of Physical Chemistry C*, **2019**, 123, 31108-31118	3.8	6

112	Silica-Based Sol-Gel Coating with High Transmission at 1053 and 527 nm and Absorption at 351 nm for Frequency-Converting Crystals in High-Power Laser System. *Applied Sciences (Switzerland)*, **2019**, 9, 5038	2.6	2
111	Construction of a Thermally Stable and Highly Energetic Metal Organic Framework as Lead-Free Primary Explosives. *Crystal Growth and Design*, **2018**, 18, 1896-1902	3.5	33
110	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na20N60 and Na24N60 Nanocages. *Angewandte Chemie*, **2018**, 130, 2622-2625	3.6	13
109	Stabilization of the Pentazolate Anion in a Zeolitic Architecture with Na N and Na N Nanocages. *Angewandte Chemie - International Edition*, **2018**, 57, 2592-2595	16.4	74
108	Synthesis of 4,8-Dinitraminodifurazano[3, 4-b,e]pyrazine Derived Nitrogen-Rich Salts as Potential Energetic Materials. *ChemistrySelect*, **2018**, 3, 849-854	1.8	19
107	Synthesis and Properties of Triaminocyclopropenium Cation Based Ionic Liquids as Hypergolic Fluids. *Chemistry - A European Journal*, **2018**, 24, 4620-4627	4.8	13
106	The ignition process measurements and performance evaluations for hypergolic ionic liquid fuels: [EMIm][DCA] and [BMIm][DCA]. *Fuel*, **2018**, 215, 612-618	7.1	20
105	Experimental Observation of Hypergolic Ignition of Superbase-Derived Ionic Liquids. *Journal of Propulsion and Power*, **2018**, 34, 125-132	1.8	9
104	A simple and versatile strategy for taming FOX-7. *Chemical Communications*, **2018**, 54, 9333-9336	5.8	25
103	Ionothermal Synthesis of Open-Framework Metal Phosphates Using a Multifunctional Ionic Liquid. *Inorganic Chemistry*, **2018**, 57, 8726-8729	5.1	22
102	Designing Explosive Poly(Ionic Liquid)s as Novel Energetic Polymers. *Chemistry - A European Journal*, **2018**, 24, 15897-15902	4.8	9
101	Rational Design and Facile Synthesis of Boranophosphate Ionic Liquids as Hypergolic Rocket Fuels. *Chemistry - A European Journal*, **2018**, 24, 10201	4.8	14
100	Accelerating the discovery of insensitive high-energy-density materials by a materials genome approach. *Nature Communications*, **2018**, 9, 2444	17.4	159
99	Exploration of new water stable proton-conducting materials in an amino acid-templated metal phosphate system. *Dalton Transactions*, **2018**, 47, 654-658	4.3	24
98	Biodegradation and detoxification of Direct Black G textile dye by a newly isolated thermophilic microflora. *Bioresource Technology*, **2018**, 250, 650-657	11	70
97	Effect of organic loading rate on anaerobic co-digestion of rice straw and pig manure with or without biological pretreatment. *Bioresource Technology*, **2018**, 250, 155-162	11	54
96	Iodocuprate-containing ionic liquids as promoters for green propulsion. *Journal of Materials Chemistry A*, **2018**, 6, 22819-22829	13	19
95	Water stable oxalate-based coordination polymers with in situ generated cyclic dipeptides showing high proton conductivity. *Dalton Transactions*, **2018**, 47, 15288-15292	4.3	6

94	Fabrication of UV-curable silicone coating with high transmittance and laser-induced damage threshold for high-power laser system. *Journal of Sol-Gel Science and Technology*, **2018**, 88, 249-254	2.3	17
93	Coulomb explosion and ultra-fast hypergolic ignition of borohydride-rich ionic liquids with WFNA. *Combustion and Flame*, **2018**, 194, 464-471	5.3	18
92	Heterometallic Hybrid Open Frameworks: Synthesis and Application for Selective Detection of Nitro Explosives. *Crystal Growth and Design*, **2017**, 17, 1836-1842	3.5	20
91	Organic superbase derived ionic liquids based on the TFSI anion: synthesis, characterization, and electrochemical properties. *New Journal of Chemistry*, **2017**, 41, 5091-5097	3.6	10
90	In Situ Encapsulation of Imidazolium Proton Carriers in Anionic Open Frameworks Leads the Way to Proton-Conducting Materials. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2295-2300	2.3	9
89	Construction of hydrothermally stable beryllium phosphite open-frameworks with high proton conductivity. *CrystEngComm*, **2017**, 19, 3997-4002	3.3	12
88	Synthesis of gem-Dinitromethylated and Fluorodinitromethylated Derivatives of 5,5'-Dinitro-bis-1,2,4-triazole as Promising High-Energy-Density Materials. *Chemistry - A European Journal*, **2017**, 23, 12787-12794	4.8	24
87	Nitrato-Functionalized Task-Specific Ionic Liquids as Attractive Hypergolic Rocket Fuels. *Chemistry - A European Journal*, **2017**, 23, 12502-12509	4.8	18
86	A luminescent heterometallic metal-organic framework for the naked-eye discrimination of nitroaromatic explosives. *Chemical Communications*, **2017**, 53, 10318-10321	5.8	63
85	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 linked bistetrazolate energetic materials. *Journal of Materials Chemistry A*, **2017**, 5, 20867-20873	13	36
84	Exploiting the energetic potential of 1,2,4-oxadiazole derivatives: combining the benefits of a 1,2,4-oxadiazole framework with various energetic functionalities. *Dalton Transactions*, **2017**, 46, 14210-14218	4.2	30
83	A promising high-energy-density material. *Nature Communications*, **2017**, 8, 181	17.4	141
82	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
81	Adaptive laser conditioning of reflective thin film based on photo thermal lens probe. *Review of Scientific Instruments*, **2017**, 88, 124901	1.7	2
80	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
79	Enhanced butanol production by solvent tolerance Clostridium acetobutylicum SE25 from cassava flour in a fibrous bed bioreactor. *Bioresource Technology*, **2016**, 221, 412-418	11	16
78	Supramolecular Templating Approach for the Solvent-Free Synthesis of Open-Framework Metal Oxalates. *Inorganic Chemistry*, **2016**, 55, 7817-9	5.1	30
77	Beyond solvents and electrolytes: Ionic liquids-based advanced functional materials. *Progress in Materials Science*, **2016**, 77, 80-124	42.2	109

76	Exploiting hydrophobic borohydride-rich ionic liquids as faster-igniting rocket fuels. *Chemical Communications*, **2016**, 52, 2031-4	5.8	56
75	Synthesis of efficient SBA-15 immobilized ionic liquid catalyst and its performance for Friedel–Crafts reaction. *Catalysis Today*, **2016**, 276, 112-120	5.3	11
74	Selective detection of picric acid by a fluorescent ionic liquid chemosensor. *Sensors and Actuators B: Chemical*, **2016**, 229, 520-527	8.5	44
73	Dancing with Energetic Nitrogen Atoms: Versatile N-Functionalization Strategies for N-Heterocyclic Frameworks in High Energy Density Materials. *Accounts of Chemical Research*, **2016**, 49, 4-16	24.3	184
72	Exploration of the key functional proteins from an efficient cellulolytic microbial consortium using dilution-to-extinction approach. *Journal of Environmental Sciences*, **2016**, 43, 199-207	6.4	5
71	Enhancement of butanol production in Clostridium acetobutylicum SE25 through accelerating phase shift by different phases pH regulation from cassava flour. *Bioresource Technology*, **2016**, 201, 148-55	11	11
70	Towards Safer Rocket Fuels: Hypergolic Imidazolylidene-Borane Compounds as Replacements for Hydrazine Derivatives. *Chemistry - A European Journal*, **2016**, 22, 10187-93	4.8	30
69	Microporous Metal–Organic Frameworks Based on Zinc Clusters and Their Fluorescence Enhancements towards Acetone and Chloroform. *European Journal of Inorganic Chemistry*, **2016**, 2016, 3411-3416	2.3	14
68	Bis(borano)hypophosphite-based ionic liquids as ultrafast-igniting hypergolic fuels. *Journal of Materials Chemistry A*, **2016**, 4, 8978-8982	13	41
67	Towards N-Alkylimidazole Borane-based Hypergolic Fuels. *Chemistry - an Asian Journal*, **2016**, 11, 3528-3533	4.5	14
66	Fluorescent heterometallic MOFs: tunable framework charges and application for explosives detection. *CrystEngComm*, **2016**, 18, 8301-8308	3.3	16
65	Bis(4-nitraminofurazanyl-3-azoxy)azofurazan and Derivatives: 1,2,5-Oxadiazole Structures and High-Performance Energetic Materials. *Angewandte Chemie - International Edition*, **2016**, 55, 11548-51	16.4	54
64	Energetic salts with π-stacking and hydrogen-bonding interactions lead the way to future energetic materials. *Journal of the American Chemical Society*, **2015**, 137, 1697-704	16.4	263
63	Biodegradable betaine-based aprotic task-specific ionic liquids and their application in efficient SO2 absorption. *Green Chemistry*, **2015**, 17, 3798-3805	10	34
62	Super-base-derived hypergolic ionic fuels with remarkably improved thermal stability. *Journal of Materials Chemistry A*, **2015**, 3, 20664-20672	13	31
61	Exploring Sustainable Rocket Fuels: [Imidazolyl-Amine-BH2](+)-Cation-Based Ionic Liquids as Replacements for Toxic Hydrazine Derivatives. *Chemistry - an Asian Journal*, **2015**, 10, 2725-32	4.5	33
60	The roles of endoplasmic reticulum overload response induced by HCV and NS4B protein in human hepatocyte viability and virus replication. *PLoS ONE*, **2015**, 10, e0123190	3.7	13
59	Cyanoborohydride-based ionic liquids as green aerospace bipropellant fuels. *Chemistry - A European Journal*, **2014**, 20, 6909-14	4.8	76

58	Shape-controlled nanostructured magnetite-type materials as highly efficient Fenton catalysts. *Applied Catalysis B: Environmental*, **2014**, 144, 739-749	21.8	75
57	Molecular design and property prediction of high density polynitro[3.3.3]-propellane-derivatized frameworks as potential high explosives. *Journal of Physical Chemistry A*, **2014**, 118, 10857-65	2.8	24
56	Deep eutectic solvents as novel extraction media for phenolic compounds from model oil. *Chemical Communications*, **2014**, 50, 11749-52	5.8	107
55	Energetic ionic liquids as explosives and propellant fuels: a new journey of ionic liquid chemistry. *Chemical Reviews*, **2014**, 114, 10527-74	68.1	378
54	Catalytic Reactions in or by Room-Temperature Ionic Liquids: Bridging the Gap between Homogeneous and Heterogeneous Catalysis **2014**, 21-84		
53	Metall-organische Gerüstverbindungen als Explosivstoffe: ein neues Konzept für energetische Materialien. *Angewandte Chemie*, **2014**, 126, 2574-2576	3.6	14
52	Insensitive nitrogen-rich materials incorporating the nitroguanidyl functionality. *Chemistry - an Asian Journal*, **2014**, 9, 212-7	4.5	36
51	Metal-organic frameworks as high explosives: a new concept for energetic materials. *Angewandte Chemie - International Edition*, **2014**, 53, 2540-2	16.4	168
50	Growing catenated nitrogen atom chains. *Angewandte Chemie - International Edition*, **2013**, 52, 8792-4	16.4	66
49	Comparative assessment of the methanogenic steps of single and two-stage processes without or with a previous hydrolysis of cassava distillage. *Bioresource Technology*, **2013**, 147, 1-6	11	7
48	Mechanocatalytic deconstruction of cellulose: an emerging entry into biorefinery. *ChemSusChem*, **2013**, 6, 2042-4	8.3	64
47	Ionic liquid propellants: future fuels for space propulsion. *Chemistry - A European Journal*, **2013**, 19, 15446-51	6.5	79
46	Pretreatment of microcrystalline cellulose by ultrasounds: effect of particle size in the heterogeneously-catalyzed hydrolysis of cellulose to glucose. *Green Chemistry*, **2013**, 15, 963	10	74
45	Exploration of the key microbes involved in the cellulolytic activity of a microbial consortium by serial dilution. *Bioresource Technology*, **2013**, 132, 395-400	11	12
44	Isolation of new flavan-3-ol and lignan glucoside from Loropetalum chinense and their antimicrobial activities. *Fitoterapia*, **2013**, 90, 228-32	3.2	10
43	Activation of microcrystalline cellulose in a CO(2)-based switchable system. *ChemSusChem*, **2013**, 6, 593-6	8.3	53
42	N-Trinitroethylamino functionalization of nitroimidazoles: a new strategy for high performance energetic materials. *Journal of Materials Chemistry A*, **2013**, 1, 7500	13	69
41	Ionic Liquid-Mediated Fe2O3 Shape-Controlled Nanocrystal-Supported Noble Metals: Highly Active Materials for CO Oxidation. *ChemCatChem*, **2013**, 5, 1978-1988	5.2	13

40	Energetic N-trinitroethyl-substituted mono-, di-, and triaminotetrazoles. *Chemistry - A European Journal*, **2013**, 19, 11000-6	4.8	64
39	Wachsende Ketten aus catenierten Stickstoffatomen. *Angewandte Chemie*, **2013**, 125, 8954-8956	3.6	7
38	Green and inexpensive choline-derived solvents for cellulose decrystallization. *Chemistry - A European Journal*, **2012**, 18, 1043-6	4.8	92
37	Electrically Switchable Capillarity of Ionic Liquids. *Journal of Adhesion Science and Technology*, **2012**, 26, 2069-2078	2	6
36	Deep eutectic solvents: syntheses, properties and applications. *Chemical Society Reviews*, **2012**, 41, 7108-7146	46.5	2679
35	Investigation of cation–anion interaction in 1-(2-hydroxyethyl)-3-methylimidazolium-based ion pairs by density functional theory calculations and experiments. *Journal of Physical Organic Chemistry*, **2012**, 25, 248-257	2.1	56
34	Fluorescent quinolizinium ionic liquids (salts) with unexpectedly high quantum yields up to >99%. *Journal of Materials Chemistry*, **2011**, 21, 8979		27
33	Ionic liquid based variable focus lenses. *Soft Matter*, **2011**, 7, 5941	3.6	31
32	Solvent-dependent photoresponsive conductivity of azobenzene-appended ionic liquids. *Chemical Communications*, **2011**, 47, 6641-3	5.8	46
31	Ionic liquid-modified dyes and their sensing performance toward acids in aqueous and non-aqueous solutions. *Analyst, The*, **2011**, 136, 1302-4	5	26
30	Hydrophobic 1-allyl-3-alkylimidazolium dicyanamide ionic liquids with low densities. *Journal of Materials Chemistry*, **2011**, 21, 6864		15
29	AC Electrochemical Stability of Ionic Liquids. *Chemistry Letters*, **2011**, 40, 1423-1425	1.7	3
28	Recent advances in ionic liquid catalysis. *Green Chemistry*, **2011**, 13, 2619	10	535
27	Carborane-Derivatized Low-Melting Salts with Ether-Functionalized Cations—Preparation and Properties. *European Journal of Inorganic Chemistry*, **2011**, 2011, 1910-1920	2.3	8
26	Depolymerization of cellulose assisted by a nonthermal atmospheric plasma. *Angewandte Chemie - International Edition*, **2011**, 50, 8964-7	16.4	76
25	Ionic liquidized-naphthalenesulfonamide: successful fabrication of liquid fluorescent materials. *Journal of Materials Chemistry*, **2011**, 21, 16335		15
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