

# Ming Lu

## List of Publications by Citations

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146  
papers

2,420  
citations

25  
h-index

42  
g-index

160  
ext. papers

3,018  
ext. citations

4.6  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
146	Synthesis and characterization of the pentazolate anion cyclo-N5 <sup>-</sup> in (N5)6(H3O)3(NH4)4Cl. <i>Science</i> , <b>2017</b> , 355, 374-376	33.3	267
145	A series of energetic metal pentazolate hydrates. <i>Nature</i> , <b>2017</b> , 549, 78-81	50.4	237
144	Selective oxidation of benzyl alcohol under solvent-free condition with gold nanoparticles encapsulated in metal-organic framework. <i>Applied Catalysis A: General</i> , <b>2014</b> , 477, 125-131	5.1	85
143	Recent advances in the syntheses and properties of polynitrogen pentazolate anion cyclo-N and its derivatives. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 7522-7538	58.5	80
142	A carbon-free inorganic-metal complex consisting of an all-nitrogen pentazole anion, a Zn(ii) cation and HO. <i>Dalton Transactions</i> , <b>2017</b> , 46, 14088-14093	4.3	60
141	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN3:Eu <sup>2+</sup> , a red-color-converter for solid state lighting. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 3181-3188	7.1	57
140	Stabilization of the Pentazolate Anion in Three Anhydrous and Metal-Free Energetic Salts. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 924-928	4.5	53
139	A series of energetic cyclo-pentazolate salts: rapid synthesis, characterization, and promising performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12468-12479	13	49
138	Self-assembled energetic 3D metal-organic framework [Na(N)(HO)] based on cyclo-N. <i>Dalton Transactions</i> , <b>2018</b> , 47, 1398-1401	4.3	49
137	Combination of four oxadiazole rings for the generation of energetic materials with high detonation performance, low sensitivity and excellent thermal stability. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11063-11070	13	41
136	Syntheses, Crystal Structures and Properties of a Series of 3D Metal-Inorganic Frameworks Containing Pentazolate Anion. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 1669-1673	4.5	40
135	Amino-tetrazole functionalized fused triazolo-triazine and tetrazolo-triazine energetic materials. <i>Chemical Communications</i> , <b>2019</b> , 55, 6062-6065	5.8	38
134	Controllable Hydrothermal Synthesis of Ni/Co MOF as Hybrid Advanced Electrode Materials for Supercapacitor. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1799-A1805	3.9	37
133	Self-assembled energetic coordination polymers based on multidentate pentazole cyclo-N5 <sup>-</sup> . <i>Science China Materials</i> , <b>2019</b> , 62, 122-129	7.1	34
132	β-cyclodextrin-capped palladium nanoparticle-catalyzed ligand-free Suzuki and Heck couplings in low-melting β-cyclodextrin/NMU mixtures. <i>Applied Organometallic Chemistry</i> , <b>2014</b> , 28, 635-640	3.1	34
131	C8N12O8: A Promising Insensitive High-Energy-Density Material. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 6150-6154	3.5	33
130	Synthesis of novel magnetic silica supported hybrid ionic liquid combining TEMPO and polyoxometalate and its application for selective oxidation of alcohols. <i>RSC Advances</i> , <b>2012</b> , 2, 8265	3.7	32

129	1-Nitro-2-trinitromethyl substituted imidazoles: a new family of high performance energetic materials. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17791-17800	13	29
128	Highly efficient N-formylation of amines with ammonium formate catalyzed by nano-Fe <sub>3</sub> O <sub>4</sub> in PEG-400. <i>RSC Advances</i> , <b>2014</b> , 4, 1234-1240	3.7	29
127	Synthesis of novel magnetic chitosan supported protonated peroxotungstate and its catalytic performance for oxidation. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 2587	3.6	28
126	Self-assembly of silver(i)-based high-energy metal-organic frameworks (HE-MOFs) at ambient temperature and pressure: synthesis, structure and superior explosive performance. <i>Chemical Communications</i> , <b>2017</b> , 53, 7489-7492	5.8	27
125	Molecular Design and Property Prediction for a Series of Novel Dicyclic Cyclotrimethylene Trinitramines (RDX) Derivatized as High Energy Density Materials. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 8250-5	2.8	27
124	Hydrogen Bonding Network: Stabilization of the Pentazolite Anion in Two Nonmetallic Energetic Salts. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1853-1859	3.5	26
123	Regioselectivity nitration of aromatics with N <sub>2</sub> O <sub>5</sub> in PEG-based dicationic ionic liquid. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 1452-1455	2	26
122	In situ synthesized 3D metal-organic frameworks (MOFs) constructed from transition metal cations and tetrazole derivatives: a family of insensitive energetic materials. <i>Dalton Transactions</i> , <b>2017</b> , 46, 11046-11052	4.3	25
121	Azo1,3,4-oxadiazole as a Novel Building Block to Design High-Performance Energetic Materials. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 839-844	3.5	25
120	Efficient and convenient C-3 functionalization of indoles through Ce(OAc) <sub>3</sub> /TBHP-mediated oxidative C-H bond activation in the presence of Cyclodextrin. <i>Green Chemistry</i> , <b>2011</b> , 13, 3079	10	24
119	Study on the one-pot oxidative esterification of glycerol with MOF supported polyoxometalates as catalyst. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3383-3393	5.5	23
118	3D-Cube Layer Stacking: A Promising Strategy for High-Performance Insensitive Energetic Materials. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 6105-6110	3.5	22
117	Dancing with 5-substituted monotetrazoles, oxygen-rich ions, and silver: towards primary explosives with positive oxygen balance and excellent energetic performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4611-4618	13	22
116	Bi-functionalized PEG1000 ionic liquid [Imim-PEG1000-TEMPO][CuCl <sub>2</sub> ] an efficient and reusable catalytic system for solvent-free aerobic oxidation of alcohols. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 4149-4154	3.6	21
115	Facile and efficient hydrolysis of organic halides, epoxides, and esters with water catalyzed by ferric sulfate in a PEG1000-DAIL[BF <sub>4</sub> ]/toluene temperature-dependent biphasic system. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 292-298	3.6	21
114	Structure, stability and intramolecular interaction of M(N <sub>5</sub> ) <sub>2</sub> (M = Mg, Ca, Sr and Ba) : a theoretical study. <i>RSC Advances</i> , <b>2015</b> , 5, 21823-21830	3.7	20
113	Copper nanoparticles on dichromium trioxide: a highly efficient catalyst from copper chromium hydroxalcite for oxidant-free dehydrogenation of alcohols. <i>Applied Organometallic Chemistry</i> , <b>2015</b> , 29, 152-156	3.1	20
112	The hydration of nitriles catalyzed by simple transition metal salt of the fourth period with the aid of acetaldoxime. <i>Applied Organometallic Chemistry</i> , <b>2012</b> , 26, 377-382	3.1	20

111	An Efficient and Eco-friendly MoO <sub>3</sub> /BiO <sub>2</sub> Solid Acid Catalyst for Electrophilic Aromatic Nitration with N <sub>2</sub> O <sub>5</sub> . <i>Catalysis Letters</i> , <b>2011</b> , 141, 1814-1820	2.8	20
110	Green and Efficient Methods for One-Pot Aerobic Oxidative Synthesis of Benzimidazoles from Alcohols with TEMPO-PEG4000-NHC-Cu(II) Complex in Water. <i>Synthetic Communications</i> , <b>2015</b> , 45, 1476-1483	1.7	19
109	Plant-mediated synthesis of Au/Pd alloy nanoparticles supported on MnO <sub>2</sub> nanostructures and their application toward oxidation of 5-(hydroxymethyl)furfural. <i>RSC Advances</i> , <b>2015</b> , 5, 85579-85585	3.7	18
108	Embellishing bis-1,2,4-triazole with four nitroamino groups: advanced high-energy-density materials with remarkable performance and good stability. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11752-11760	13	18
107	Polyoxometalate-Based Metal-Organic Frameworks as Catalysts for the Selective Oxidation of Alcohols in Micellar Systems. <i>ChemPlusChem</i> , <b>2014</b> , 79, 872-878	2.8	18
106	Theoretical studies on the stability of phenylpentazole and its substituted derivatives of $\text{C}_6\text{H}_5$ , $\text{C}_6\text{H}_4\text{CH}_3$ , $\text{C}_6\text{H}_4\text{C}_2\text{H}_5$ and $\text{N}(\text{CH}_3)_2$ . <i>RSC Advances</i> , <b>2014</b> , 4, 56095-56101	3.7	18
105	Tetracyclic pyrazine-fused furazans as insensitive energetic materials: syntheses, structures, and properties. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 8034-8037	3.9	18
104	Alkali Metals-Based Energetic Coordination Polymers as Promising Primary Explosives: Crystal Structures, Energetic Properties, and Environmental Impact. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 14213-14219	4.8	17
103	Chloromethylation of Aromatic Compounds Catalyzed by Surfactant Micelles in Oil/Water Biphasic System. <i>Catalysis Letters</i> , <b>2009</b> , 131, 485-493	2.8	17
102	Oxidation of Benzyl Halides to Aldehydes and Ketones with Potassium Nitrate Catalyzed by Phase-Transfer Catalyst in Aqueous Media. <i>Synthetic Communications</i> , <b>2008</b> , 38, 4188-4197	1.7	17
101	Co (II)-C <sub>12</sub> alkyl carbon chain multi-functional ionic liquid immobilized on nano-SiO <sub>2</sub> nano-SiO <sub>2</sub> @CoCl <sub>3</sub> -C <sub>12</sub> IL as an efficient cooperative catalyst for C-H activation by direct acylation of aryl halides with aldehydes. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4096	3.1	16
100	[N=N=N]-linked fused triazoles with $\pi$ -stacking and hydrogen bonds: Towards thermally stable, insensitive, and highly energetic materials. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126817	14.7	16
99	Pd Nanoparticles Immobilized on Fe <sub>3</sub> O <sub>4</sub> @ Poly(ethylene glycol) Bridged Amine Functionalized Imidazolium Ionic Liquid: A Magnetically Separable Catalyst for Heck in Water. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1549-1556	2.8	15
98	Nitramino-functionalized tetracyclic oxadiazoles as energetic materials with high performance and high stability: crystal structures and energetic properties. <i>CrystEngComm</i> , <b>2018</b> , 20, 4321-4328	3.3	15
97	Investigation on the Stability of Multisubstituted Arylpentazoles and the Influence on the Generation of Pentazolone Anion. <i>Journal of Energetic Materials</i> , <b>2016</b> , 34, 103-111	1.6	14
96	Facile and Efficient Reductive Homocoupling of Benzyl and Aryl Halides Catalyzed by Ionic Liquid [C <sub>12</sub> mim][CuCl <sub>2</sub> ] in the Presence of Metallic Zinc and Copper. <i>Catalysis Letters</i> , <b>2011</b> , 141, 467-473	2.8	14
95	Functionalized Ionic Liquid Promoted Aza-Michael Addition of Aromatic Amines. <i>Journal of the Chinese Chemical Society</i> , <b>2010</b> , 57, 1221-1226	1.5	14
94	A series of high-energy coordination polymers with 3,6-bis(4-nitroamino-1,2,5-oxadiazol-3-yl)-1,4,2,5-dioxadiazine, a ligand with multi-coordination sites, high oxygen content and detonation performance: syntheses, structures, and performance. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18851-18861	13	13

93	Cationic and anionic energetic materials based on a new amphotere. <i>Science China Materials</i> , <b>2019</b> , 62, 751-758	7.1	12
92	Electrochemical Nonacidic N-Nitrosation/N-Nitration of Secondary Amines through a Biradical Coupling Reaction. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 5036-5043	5.6	12
91	Highly efficient synthesis of cyclic carbonates from carbon dioxide and epoxides catalyzed by ionic liquid [Heemim][ZrCl5]. <i>RSC Advances</i> , <b>2015</b> , 5, 67886-67891	3.7	11
90	Synthesis of Benzimidazoles via Iron-Catalyzed Aerobic Oxidation Reaction of Imine Derivatives with o-Phenylenediamine. <i>Synthetic Communications</i> , <b>2015</b> , 45, 2148-2157	1.7	11
89	3-Methyl-4-oxa-5-azahomoadamantane as an Organocatalyst for the Aerobic Oxidation of Primary Amines to Oximes in Water. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 1175-1180	5.6	11
88	Combination of Polynitropyrazole and 5-Amino-1,2,4-oxadiazole Derivatives: An Approach to High Performance Energetic Materials. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 3737-3746	3.5	11
87	Pentazole anion cyclo-N5 <sup>3-</sup> a rising star in nitrogen chemistry and energetic materials. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1355-1358	7.9	11
86	Efficient and Convenient Oxidation of Organic Halides to Aldehydes and Ketones Catalyzed by H5IO6/V2O5 in Ionic Liquid [bmpy][PF6]. <i>Journal of the Chinese Chemical Society</i> , <b>2010</b> , 57, 28-33	1.5	11
85	Oxidative Coupling of o-Phenylenediamine with Arylmethylamines to Synthesize Aryl-Substituted Benzimidazoles Under Catalyst-Free and Solvent-Free Conditions. <i>Synthetic Communications</i> , <b>2014</b> , 44, 2520-2528	1.7	10
84	A highly water-dispersible and magnetically separable palladium catalyst based on functionalized poly(ethylene glycol)-supported iminophosphine for SuzukiMiyaura coupling in water. <i>Applied Organometallic Chemistry</i> , <b>2015</b> , 29, 419-424	3.1	10
83	Regioselective Nitration of Aromatics with Nanomagnetic Solid Superacid SO4 <sup>2-</sup> /ZrO2-MxOy-Fe3O4 and Its Theoretical Studies. <i>ChemPlusChem</i> , <b>2013</b> , 78, 310-317	2.8	10
82	Aerobic Oxidation of Benzylic Halides to Carbonyl Compounds with Molecular Oxygen Catalyzed by TEMPO/KNO2 in Aqueous Media. <i>Synthetic Communications</i> , <b>2010</b> , 40, 1106-1114	1.7	10
81	One-step synthesis of honeycomb-like Ni/Mn-PMo12 ultra-thin nanosheets for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , <b>2019</b> , 497, 143760	6.7	9
80	Aerobic oxidative synthesis of 2-arylbenzimidazoles, 2-arylbenzoxazoles, and 2-arylbenzothiazoles from arylmethanols or arylmethylamines catalyzed by Fe(III)/TEMPO under solvent-free conditions. <i>Journal of the Iranian Chemical Society</i> , <b>2015</b> , 12, 771-778	2	9
79	Syntheses of Energetic cyclo-Pentazolate Salts. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2877-2882	4.5	9
78	Theoretical investigations of pyridine derivatives as potential high energy density materials. <i>Journal of Physical Organic Chemistry</i> , <b>2013</b> , 26, 211-217	2.1	9
77	Salt Formation: Route To Improve Energetic Performance and Molecular Stability Simultaneously. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 197-205	3.5	9
76	Achieving Good Molecular Stability in Nitrogen-rich Salts Based on Polyamino Substituted Furazan-triazole. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6084-6092	3.5	9

75	Energetic furazanotriazoles with high thermal stability and low sensitivity: facile synthesis, crystal structures and energetic properties. <i>CrystEngComm</i> , <b>2019</b> , 21, 6093-6099	3.3	8
74	Boosting the performance of energetic materials through thermally-induced conformational transition. <i>CrystEngComm</i> , <b>2019</b> , 21, 796-799	3.3	8
73	Theoretical studies on stability and pyrolysis mechanism of salts formed by N5 and metallic cations Na <sup>+</sup> , Fe <sup>2+</sup> and Ni <sup>2+</sup> . <i>Structural Chemistry</i> , <b>2015</b> , 26, 785-792	1.8	8
72	In situ Synthesized Energetic Salts Based on the C <sub>3</sub> N <sub>4</sub> Fused Tricyclic 3,9-Diamine-6,7-Dihydro-Bis(triazolo)-Tetrazepine Cation: A Family of High-Performance Energetic Materials. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2018</b> , 43, 595-601	1.7	8
71	Comparative theoretical studies of high energetic cyclic nitramines. <i>Journal of Physical Organic Chemistry</i> , <b>2014</b> , 27, 10-17	2.1	8
70	Metal-Free: A Novel and Efficient Aerobic Oxidation of Primary Amines to Oximes Using N,N',N''-Trihydroxycyanuric Acid and Acetaldoxime as Catalysts in Water. <i>Synlett</i> , <b>2014</b> , 25, 1873-1878 <sup>2.2</sup>	2.2	8
69	A green and efficient method for synthesis of benzimidazoles using nano-Fe <sub>3</sub> O <sub>4</sub> in PEG-400/H <sub>2</sub> O aqueous system under ambient conditions at room temperature. <i>Applied Organometallic Chemistry</i> , <b>2014</b> , 28, 436-440	3.1	7
68	Efficient Mo(VI)-Catalyzed Hydration of Nitrile with Acetaldoxime. <i>Synthetic Communications</i> , <b>2014</b> , 44, 474-480	1.7	7
67	A kinetic investigation of thermal decomposition of 1,1'-dihydroxy-5,5'-bitetrazole-based metal salts. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 130, 1213-1220	4.1	7
66	Manganese dioxide and N,N',N''-trihydroxycyanuric acid: a novel and recyclable catalytic system for aerobic oxidation of toluene derivatives in PEG-1000-based dicationic acidic ionic liquid. <i>Applied Organometallic Chemistry</i> , <b>2015</b> , 29, 276-279	3.1	7
65	Oxygen-Enriched Metal-Organic Frameworks Based on 1-(Trinitromethyl)-1-1,2,4-Triazole-3-Carboxylic Acid and Their Thermal Decomposition and Effects on the Decomposition of Ammonium Perchlorate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21516-21526	9.5	7
64	Pyrazolo[1,5-a]pyrimidine with similar amino-nitro-amino arrangement characteristics to TATB: a novel heat-resistant explosive with fused structure. <i>CrystEngComm</i> , <b>2021</b> , 23, 2801-2808	3.3	7
63	Iron-catalyzed highly efficient aerobic oxidative synthesis of benzimidazoles direct from oximes in water. <i>Research on Chemical Intermediates</i> , <b>2016</b> , 42, 471-479	2.8	6
62	Aerobic oxidative synthesis of benzimidazoles from amines catalyzed by 3-methyl-4-oxa-5-azahomoadamantane and iron(III) chloride. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 10017-10025	2.8	6
61	Pyridylpentazole and its derivatives: a new source of N <sub>5</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 27699-27705	3.7	6
60	Copper-catalyzed highly efficient aerobic oxidative synthesis of benzimidazoles, benzoxazoles and benzothiazoles from aromatic alcohols under solvent-free conditions in open air at room temperature. <i>Applied Organometallic Chemistry</i> , <b>2013</b> , 27, n/a-n/a	3.1	6
59	Palladium nanoparticles embedded in improved mesoporous silica: a pH-triggered phase transfer catalyst for Sonogashira reaction. <i>Applied Organometallic Chemistry</i> , <b>2015</b> , 29, 674-677	3.1	6
58	Green and reusable homogeneous oxidative system with ceric ammonium nitrate/[Imim-PEG1000-TEMPO] for efficient aerobic oxidation of alcohols and one-pot synthesis of benzimidazoles from alcohols under ambient conditions. <i>Applied Organometallic Chemistry</i> , <b>2015</b> , 29, 100-112	3.1	6

57	Preparation of heteropoly acid based amphiphilic salts supported by nano oxides and their catalytic performance in the nitration of aromatics. <i>RSC Advances</i> , <b>2013</b> , 3, 2197	3.7	6
56	Molecular Design of New Nitramine Explosive: 1,3,5,7-Tetraaza-1,2,3,5, 6,7-hexahydros-indacene Derivatives. <i>Polycyclic Aromatic Compounds</i> , <b>2013</b> , 33, 297-309	1.3	6
55	Facile and Efficient Amination of Organic Halides Catalyzed by Copper Sulfate in PEG1000-DIL/Methylcyclohexane Temperature-Dependent Biphasic System. <i>Journal of the Chinese Chemical Society</i> , <b>2010</b> , 57, 604-611	1.5	6
54	MOF derived Bi <sub>2</sub> MoO <sub>6</sub> /TiO <sub>2</sub> nanohybrids: enhanced photocatalytic activity for Rhodamine B degradation under sunlike irradiation. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 6431-6444	2.8	5
53	Theoretical studies on high energetic density nitramine explosives containing pyridine. <i>Science China Chemistry</i> , <b>2012</b> , 55, 1903-1909	7.9	5
52	Complex of [BMIm] PF <sub>6</sub> with PEG1000: a high efficient and recycle system for palladium-catalyzed Suzuki cross-coupling and Heck reaction. <i>Applied Organometallic Chemistry</i> , <b>2012</b> , 26, 305-309	3.1	5
51	Chloromethylation of 2-chloroethylbenzene catalyzed by micellar catalysis. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 893-899		5
50	Higher performing and less sensitive CN <sub>7</sub> -based high-energy-density material. <i>Science China Materials</i> , <b>2020</b> , 63, 1779-1787	7.1	5
49	Pentazolate Anion Cyclo-N <sub>5</sub> -Development of a New Energetic Material. <i>Engineering</i> , <b>2020</b> , 6, 964-966	9.7	4
48	Conjugation in multi-tetrazole derivatives: a new design direction for energetic materials. <i>Journal of Molecular Modeling</i> , <b>2018</b> , 24, 173	2	4
47	Catalytic wet air oxidation of aromatic compounds: degradation in molybdovanadophosphoric polyoxometalates micellar system under room temperature conditions. <i>Journal of the Iranian Chemical Society</i> , <b>2013</b> , 10, 123-129	2	4
46	A Novel and Efficient Synthesis of Hexanitrostilbene by N-Hydroxyphthalimide/FeCl <sub>2</sub> -Catalyzed Aerobic Dehydrogenation of Hexanitrobibenzyl. <i>Journal of Energetic Materials</i> , <b>2013</b> , 31, 217-223	1.6	4
45	Application of Wittig Reaction in Synthesis of Novel Pyridine Dicarboxylic Acid Derivatives with High Ligand Activity. <i>Synthetic Communications</i> , <b>2011</b> , 41, 3403-3408	1.7	4
44	Selective Oxidation of Sulfides to Sulfoxides/Sulfones by 30% Hydrogen Peroxide. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2012</b> , 187, 822-830	1	4
43	Recent research on the synthesis pentazolate anion cyclo-N <sub>5</sub> . <i>FirePhysChem</i> , <b>2021</b> , 1, 33-45		4
42	LiN <sub>5</sub> : A novel pentazolate salt with high nitrogen content. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132397	9.7	4
41	Nanocomposite shuttle-supported palladium nanoparticles as a PH-triggered phase transfer catalyst for the aerobic oxidation of alcohols. <i>Journal of the Iranian Chemical Society</i> , <b>2015</b> , 12, 1213-1219	3	3
40	Efficient Aerobic Oxidative Synthesis of Benzimidazoles with Fe(III) based PEG1000 Dicationic Imidazolium Ionic Liquid/toluene Temperature-dependent Biphasic System. <i>Journal of the Chinese Chemical Society</i> , <b>2015</b> , 62, 103-106	1.5	3

- 39 The importance of molecular conformation to the properties: a DFT study of the polynitro heterocyclic compounds based on dodecahydrodiimidazo [4,5-b:4',5'-e]pyrazine structure. *Structural Chemistry*, **2015**, 26, 667-674 1.8 3
- 38 Copper(II) Acetate-Catalysed Conversion of Aldoximes to Amides under Mild Conditions. *Journal of Chemical Research*, **2016**, 40, 594-596 0.6 3
- 37 A Green and Effective Approach of Two-Step 2,2',4,4',6,6'-Hexanitrostilbene Preparation and Its Industrial Scale Study. *Organic Process Research and Development*, **2016**, 20, 668-674 3.9 3
- 36 Efficient and convenient oxidation of alcohols to aldehydes and ketones with  $\text{H}_2\text{O}_2/(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$  regulated by PEG1000-DIL/methylcyclohexane temperature-dependent biphasic system. *Journal of the Iranian Chemical Society*, **2013**, 10, 453-460 2 3
- 35 Preparation, characterization, and catalytic performance of a novel TEMPO-functionalized acid magnetic catalyst. *Monatshefte für Chemie*, **2013**, 144, 1671-1677 1.4 3
- 34 A Facile and Efficient Catalytic System for the Oxidation of Alcohols with Gold(III) and Ionic Liquid Immobilized TEMPO under Solvent-Free Conditions. *Synlett*, **2014**, 25, 2459-2462 2.2 3
- 33 An Efficient Synthetic Method for 2,5,7,9-Tetranitro-2,5,7,9-tetraazabicyclo[4.3.0]nonane-8-one. *Journal of Energetic Materials*, **2012**, 30, 30-39 1.6 3
- 32 Theoretical investigation on the structures, densities, and detonation properties of polynitrotetraazaanthracenes. *International Journal of Quantum Chemistry*, **2012**, 112, 2794-2800 2.1 3
- 31 Computational studies on 3,5,7,10,12,14,15,16-octanitro-3,5,7,10,12,14,15,16-octaaza-pentacyclo[7.5.1.12,8.04,13.06,11]hexadecane as potential high-energy-density compound. *Structural Chemistry*, **2013**, 24, 139-145 3 3
- 30 A low sensitivity energetic cocrystal of ammonium pentazolate. *Journal of Energetic Materials*, 1-18 1.6 3
- 29 From  $\text{BTO}_2$  to  $\text{HBTO}$  insensitive energetic salt: a route to boost energy. *CrystEngComm*, **2019**, 21, 3873-3880 3.8 2
- 28 First Structural Characterization of Solvate-Free Silver 5-Nitrotetrazolate and its Comparison with other Energetic Silver Compounds in Structure and Property. *Propellants, Explosives, Pyrotechnics*, **2019**, 44, 803-806 1.7 2
- 27 Modification of crystalline energetic salts through polymorphic transition: enhanced crystal density and energy performance. *CrystEngComm*, **2020**, 22, 4130-4135 3.3 2
- 26 All-nitrogen ion-based compounds as energetic oxidizers: a theoretical study on  $[\text{N}_5^+][\text{NO}_3^-]$ ,  $[\text{N}_5^+][\text{N}(\text{NO}_2)_2^-]$ ,  $[\text{NO}_2^+][\text{N}_5^-]$  and  $\text{NO}_2\cdot\text{N}_3$ . *New Journal of Chemistry*, **2020**, 44, 11188-11195 3.6 2
- 25 Compatibility study of  $\text{NaN}_5$  with traditional energetic materials and HTPB propellant components. *Journal of Energetic Materials*, **2020**, 38, 445-454 1.6 2
- 24 Theoretical study on benzoheterocycle based energetic materials, effect of heterocyclic-fused, conjugation, hydrogen bond, and substitutional group on the detonation performance. *Journal of Molecular Modeling*, **2018**, 24, 40 2 2
- 23 L-Proline: an efficient N,O-bidentate ligand for copper-catalyzed intramolecular cyclization reaction of 2-iodoanilines with nitriles for the synthesis of benzimidazoles. *Applied Organometallic Chemistry*, **2014**, 28, 764-767 3.1 2
- 22 Density Functional Theory Studies on Intermolecular Interactions of 4-Amino-3,5-dinitro-1H-pyrazole with  $\text{NH}_3$  and  $\text{H}_2\text{O}$ . *Journal of the Chinese Chemical Society*, **2012**, 59, 550-556 1.5 2



21	C <sub>4</sub> N <sub>8</sub> O <sub>6</sub> : A Promising Ternary CNO-Compound With Good Detonation Performance And Low Sensitivity. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2021</b> , 46, 1286-1291	1.7	2
20	Occurrence, Distribution, and Ecological Risk Assessment of Antibiotics in Different Environmental Media in Anqing, Anhui Province, China. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	2
19	Green Oxidation Process in the Synthesis of LLM-105 with H <sub>2</sub> O <sub>2</sub> /Peroxytungstate System and its Theoretical Study. <i>Journal of Heterocyclic Chemistry</i> , <b>2016</b> , 53, 1386-1394	1.9	2
18	Theoretical Insights on the High Pressure Behavior of Pentazolate Anion Complex [Co(HO)(N)] <sub>4</sub> HO. <i>Scientific Reports</i> , <b>2019</b> , 9, 15648	4.9	2
17	Novel metal-organic frameworks assembled from the combination of polynitro-pyrazole and 5-nitroamine-1,2,4-oxadiazole: synthesis, structure and thermal properties. <i>Dalton Transactions</i> , <b>2021</b> , 50, 12906-12912	4.3	2
16	Modification with ultrasonication for enhanced properties of cobalt-based zeolitic imidazolate framework. <i>MRS Communications</i> , <b>2018</b> , 8, 1363-1370	2.7	2
15	Salt Formation, to Realize a Good Combination of High Energy and Low Sensitivity of Nitroform-Based Energetic Compounds. <i>Crystal Growth and Design</i> , <b>2022</b> , 22, 167-173	3.5	2
14	Improving properties of energetic coordination polymers through structural modulation from 1D to 3D without changes of ligands or metal nodes. <i>CrystEngComm</i> , <b>2019</b> , 21, 937-940	3.3	1
13	Dissociative adsorption modes of TATB on the Al (111) surface: a DFT investigation.. <i>RSC Advances</i> , <b>2019</b> , 9, 11745-11754	3.7	1
12	Biomimetic Cleavage of Aryl-Nitrogen Bonds in N-Arylazoles Catalyzed by Metalloporphyrins. <i>Catalysis Letters</i> , <b>2018</b> , 148, 2636-2642	2.8	1
11	A PEG1000-DAIL[CdCl <sub>3</sub> ]Toluene temperature-dependent biphasic system that regulates homogeneously catalyzed C-C coupling of organic halides with phenols and alcohols under ligand-free conditions. <i>Canadian Journal of Chemistry</i> , <b>2011</b> , 89, 471-480	0.9	1
10	Improved Preparation of 3,3',4,4'-Tetramethyldiphenylethane by Self Coupling Reaction in Aqueous Media. <i>Journal of the Chinese Chemical Society</i> , <b>2009</b> , 56, 1056-1063	1.5	1
9	C <sub>5</sub> H <sub>2</sub> N <sub>14</sub> O <sub>6</sub> : achieving azido-based materials with zero oxygen balance and good energetic performance. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 20542-20546	3.6	1
8	Solvent effects on the geometry, electronic structure, and bonding style of Zn(N <sub>5</sub> ) <sub>2</sub> : A theoretical study. <i>Journal of the Chinese Chemical Society</i> , <b>2020</b> , 67, 235-241	1.5	1
7	Density functional theory studies on two novel poly-nitrogen compounds: N <sub>5</sub> +N <sub>3</sub> and N <sub>5</sub> +N <sub>5</sub> . <i>Journal of Physical Organic Chemistry</i> , <b>2021</b> , 34, e4135	2.1	0
6	From mono-rings to bridged bi-rings to caged bi-rings: a promising design strategy for all-nitrogen high-energy-density materials N <sub>10</sub> and N <sub>12</sub> . <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 6379-6385	3.6	0
5	An interesting 3D energetic metal - framework based Ag(I) ions and 3,4-diaminofurazan. <i>Journal of Energetic Materials</i> , 1-13	1.6	0
4	Symmetry, Conjugated System, and N-oxides in 2,4,6-Trinitro-1,3,5-triazine-1,3,5-trioxides: A New Design Concept for Energetic Oxidizers. <i>Journal of Energetic Materials</i> , <b>2017</b> , 35, 63-76	1.6	

- 3 Dehydrogenation of nitro derivatives of bibenzyl to corresponding nitro stilbene with dioxygen catalyzed by 2,2,6,6-tetramethylpiperidine-1-oxyl. *Journal of the Iranian Chemical Society*, **2012**, 9, 971-975
- 2 Synthesis and crystal structure of 5-((5-amino-2H-tetrazol-2-yl)methyl)-1,3,4-oxadiazol-2-amine. *Molecular Crystals and Liquid Crystals*, 1-9 0.5
- 1 Carbon skeleton: route to investigate high-performance insensitive energetic materials. *New Journal of Chemistry*, **2022**, 46, 6690-6693 3.6