

# Ming Lu

## 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.

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	LiN5: A novel pentazolate salt with high nitrogen content. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 1323-1330	14.7	4
145	Carbon skeleton: route to investigate high-performance insensitive energetic materials. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 6690-6693	3.6	
144	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
143	C5H2N14O6: 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
142	Recent research on the synthesis pentazolate anion cyclo-N5. <i>FirePhysChem</i> , <b>2021</b> , 1, 33-45		4
141	Oxygen-Enriched Metal-Organic Frameworks Based on 1-(Trinitromethyl)-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
140	C4N8O6: 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
139	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
138	[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
137	Density functional theory studies on two novel poly-nitrogen compounds: N5+N3 and N5+N5. <i>Journal of Physical Organic Chemistry</i> , <b>2021</b> , 34, e4135	2.1	0
136	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
135	Pyrazolo[1,5-a]pyrimidine with similar $\pi$ -amino $\pi$ -nitro $\pi$ -amino $\pi$ -arrangement characteristics to TATB: a novel heat-resistant explosive with fused structure. <i>CrystEngComm</i> , <b>2021</b> , 23, 2801-2808	3.3	7
134	From mono-rings to bridged bi-rings to caged bi-rings: a promising design strategy for all-nitrogen high-energy-density materials N10 and N12. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 6379-6385	3.6	0
133	Modification of crystalline energetic salts through polymorphic transition: enhanced crystal density and energy performance. <i>CrystEngComm</i> , <b>2020</b> , 22, 4130-4135	3.3	2
132	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
131	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
130	All-nitrogen ion-based compounds as energetic oxidizers: a theoretical study on [N5+][NO3-], [N5+][N(NO2)2-], [NO2+][N5-] and NO2N3. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11188-11195	3.6	2

129	Pentazolate Anion Cyclo-N5 <sup>-</sup> Development of a New Energetic Material. <i>Engineering</i> , <b>2020</b> , 6, 964-966	9.7	4
128	Compatibility study of NaN <sub>5</sub> with traditional energetic materials and HTPB propellant components. <i>Journal of Energetic Materials</i> , <b>2020</b> , 38, 445-454	1.6	2
127	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
126	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
125	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
124	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
123	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
122	One-step synthesis of honeycomb-like Ni/Mn-PMo <sub>12</sub> ultra-thin nanosheets for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , <b>2019</b> , 497, 143760	6.7	9
121	Energetic furazan-triazoles 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
120	Hydrogen Bonding Network: Stabilization of the Pentazolate Anion in Two Nonmetallic Energetic Salts. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1853-1859	3.5	26
119	Boosting the performance of energetic materials through thermally-induced conformational transition. <i>CrystEngComm</i> , <b>2019</b> , 21, 796-799	3.3	8
118	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
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	Cationic and anionic energetic materials based on a new amphoteric. <i>Science China Materials</i> , <b>2019</b> , 62, 751-758	7.1	12
115	From BTO <sub>2</sub> to HBTO <sub>2</sub> insensitive energetic salt: a route to boost energy. <i>CrystEngComm</i> , <b>2019</b> , 21, 3873-3880	3.9	2
114	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
113	First Structural Characterization of Solvate-Free Silver 5-Nitrotetrazolate and its Comparison with other Energetic Silver Compounds in Structure and Property. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2019</b> , 44, 803-806	1.7	2
112	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

111	Amino-tetrazole functionalized fused triazolo-triazine and tetrazolo-triazine energetic materials. <i>Chemical Communications</i> , <b>2019</b> , 55, 6062-6065	5.8	38
110	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
109	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
108	Syntheses of Energetic cyclo-Pentazolate Salts. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2877-2882	4.5	9
107	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
106	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
105	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
104	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
103	Theoretical study on benzoheterocycle based energetic materials, effect of heterocyclic-fused, conjugation, hydrogen bond, and substitutional group on the detonation performance. <i>Journal of Molecular Modeling</i> , <b>2018</b> , 24, 40	2	2
102	In situ Synthesized Energetic Salts Based on the C <sub>4</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
101	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
100	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 <sub>4</sub> N <sub>4</sub> activation by direct acylation of aryl halides with aldehydes. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4096	3.1	16
99	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
98	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
97	Pentazole anion cyclo-N <sub>5</sub> <sup>+</sup> a rising star in nitrogen chemistry and energetic materials. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1355-1358	7.9	11
96	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
95	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
94	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

93	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
92	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
91	C8N12O8: A Promising Insensitive High-Energy-Density Material. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 6150-6154	3.5	33
90	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
89	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	
88	Synthesis and characterization of the pentazolate anion cyclo-N5- in (N5)6(H3O)3(NH4)4Cl. <i>Science</i> , <b>2017</b> , 355, 374-376	33.3	267
87	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
86	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
85	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
84	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
83	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
82	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
81	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, 18854-18861	13	13
80	A series of energetic metal pentazolate hydrates. <i>Nature</i> , <b>2017</b> , 549, 78-81	50.4	237
79	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
78	Copper(II) Acetate-Catalysed Conversion of Aldoximes to Amides under Mild Conditions. <i>Journal of Chemical Research</i> , <b>2016</b> , 40, 594-596	0.6	3
77	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
76	A Green and Effective Approach of Two-Step 2,2',4,4',6,6'-Hexanitrostilbene Preparation and Its Industrial Scale Study. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 668-674	3.9	3

75	Investigation on the Stability of Multisubstituted Arylpentazoles and the Influence on the Generation of Pentazolate Anion. <i>Journal of Energetic Materials</i> , <b>2016</b> , 34, 103-111	1.6	14
74	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
73	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
72	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
71	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
70	Highly efficient synthesis of cyclic carbonates from carbon dioxide and epoxides catalyzed by ionic liquid [Heemim][ZrCl <sub>5</sub> ]. <i>RSC Advances</i> , <b>2015</b> , 5, 67886-67891	3.7	11
69	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
68	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
67	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
66	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
65	Theoretical studies on stability and pyrolysis mechanism of salts formed by N <sub>5</sub> 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
64	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
63	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
62	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
61	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
60	Plant-mediated synthesis of AuPd 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
59	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
58	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. <i>Structural Chemistry</i> , <b>2015</b> , 26, 667-674	1.8	3

57	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
56	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
55	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, 109-112	3.1	6
54	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN <sub>3</sub> :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
53	Manganese dioxide and N,N,N'-trihydroxyisocyanuric 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
52	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
51	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
50	Efficient Mo(VI)-Catalyzed Hydration of Nitrile with Acetaldoxime. <i>Synthetic Communications</i> , <b>2014</b> , 44, 474-480	1.7	7
49	L-Proline: an efficient N,O-bidentate ligand for copper-catalyzed intramolecular cyclization reaction of 2-iodoanilines with nitriles for the synthesis of benzimidazoles. <i>Applied Organometallic Chemistry</i> , <b>2014</b> , 28, 764-767	3.1	2
48	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
47	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
46	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
45	Comparative theoretical studies of high energetic cyclic nitramines. <i>Journal of Physical Organic Chemistry</i> , <b>2014</b> , 27, 10-17	2.1	8
44	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
43	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
42	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
41	Metal-Free: A Novel and Efficient Aerobic Oxidation of Primary Amines to Oximes Using N,N',N'-Trihydroxyisocyanuric Acid and Acetaldoxime as Catalysts in Water. <i>Synlett</i> , <b>2014</b> , 25, 1873-1878	2.2	8
40	A Facile and Efficient Catalytic System for the Oxidation of Alcohols with Gold(III) and Ionic Liquid Immobilized TEMPO under Solvent-Free Conditions. <i>Synlett</i> , <b>2014</b> , 25, 2459-2462	2.2	3

39	Theoretical studies on the stability of phenylpentazole and its substituted derivatives of $\text{DH}$ , $\text{DCH}_3$ , $\text{DC}_2\text{H}_5$ and $\text{N}(\text{CH}_3)_2$ . <i>RSC Advances</i> , <b>2014</b> , 4, 56095-56101	3.7	18
38	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. <i>Journal of the Iranian Chemical Society</i> , <b>2013</b> , 10, 453-460	2	3
37	Preparation, characterization, and catalytic performance of a novel TEMPO-functionalized acid magnetic catalyst. <i>Monatshefte für Chemie</i> , <b>2013</b> , 144, 1671-1677	1.4	3
36	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
35	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
34	A Novel and Efficient Synthesis of Hexanitrostilbene by N-Hydroxyphthalimide/ $\text{FeCl}_2$ -Catalyzed Aerobic Dehydrogenation of Hexanitrobibenzyl. <i>Journal of Energetic Materials</i> , <b>2013</b> , 31, 217-223	1.6	4
33	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
32	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
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