

# Jian-guo Zhang

## List of Publications by Year in descending order

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300  
papers

3,824  
citations

172386

29  
h-index

276775

41  
g-index

305  
all docs

305  
docs citations

305  
times ranked

2337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of energetic salts based on a new coplanar bicyclic cation-5-amino-3-(5-amino-1,2,4-oxadiazol-3-yl)-1H-1,2,4-triazolium. <i>Journal of Molecular Structure</i> , 2022, 1248, 131438.	1.8	7
2	3,4,5-trinitro-1H-pyrazol-1-amine: A promising explosive alternative with high performance and low sensitivity. <i>Journal of Molecular Structure</i> , 2022, 1250, 131838.	1.8	4
3	Recent advances in the synthesis and energetic properties of potassium-based potential green primary explosives. <i>Defence Technology</i> , 2022, 18, 1945-1959.	2.1	4
4	Energetic and magnetic directional aggregation properties of KPA@Fe <sub>3</sub> O <sub>4</sub> composite particles prepared via a microcrystalline co-precipitation route. <i>Nanotechnology</i> , 2022, 33, 085701.	1.3	0
5	Synthesis, structure and properties of a high-energy metal-organic framework fuel [Cu(MTZ) <sub>2</sub> (CTB) <sub>2</sub> ]. <i>New Journal of Chemistry</i> , 2022, 46, 1687-1692.	1.4	7
6	Unraveling the Intercorrelation Between Micro/Mesopores and K Migration Behavior in Hard Carbon. <i>Small</i> , 2022, 18, e2107113.	5.2	65
7	“All-in-one” hypergolic metal-organic frameworks with high energy density and short ignition delay. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2795-2799.	5.2	11
8	Pressure-induced phase transition of a series of energetic pentazolate anion salts: a DFT study. <i>New Journal of Chemistry</i> , 2022, 46, 5653-5662.	1.4	3
9	New synthesis method for urazine and dissolution-crystallization of its Ag-based laser energetic coordination polymers. <i>CrystEngComm</i> , 2022, 24, 2679-2685.	1.3	1
10	Recent advances on the nitrogen-rich 1,2,4-oxadiazole-azoles-based energetic materials. <i>Defence Technology</i> , 2022, 18, 344-367.	2.1	23
11	Preparation of Laser Energetic Coordination Polymers Based on Urazine by Self-Crystallization. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16718-16726.	4.0	15
12	Searching for high performance asymmetrically substituted tetrazine energetic materials based on 3-hydrazino-6-(1H-1,2,3,4-tetrazol-5-ylimino)-s-tetrazine. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103880.	2.3	3
13	Combination multi-nitrogen with high heat of formation: theoretical studies on the performance of bridged 1,2,4,5-tetrazine derivatives. <i>Journal of Molecular Modeling</i> , 2022, 28, 3.	0.8	1
14	Exoergic pathways triggered by O/H radicals in different metallic carbohydrazide perchlorates (M <sup>2+</sup> = Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> .) <i>TJ ETQq0 0 0 rgrBT /Overlock 10 Tf 5</i>	0.7	7
15	Phase transition induced by an external electric field as a buffer to facilitate the initial decomposition of a series of catenated nitrogen energetic systems: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12488-12500.	1.3	3
16	Synthesis and Energetic Properties of Trending Metal-Free Potential Green Primary Explosives: A Review. <i>ChemistrySelect</i> , 2022, 7, .	0.7	7
17	Tunable 1,2,3-triazole-N-oxides towards high energy density materials: theoretical insight into structure-property correlations. <i>New Journal of Chemistry</i> , 2022, 46, 11741-11750.	1.4	5
18	Energetic bimetallic complexes as catalysts affect the thermal decomposition of ammonium perchlorate. <i>Dalton Transactions</i> , 2022, 51, 9894-9904.	1.6	12

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19	Detonation performance enhancement through a positional isomerism modification strategy. <i>New Journal of Chemistry</i> , 2022, 46, 13874-13879.	1.4	2
20	Fast explosive performance prediction via small-dose energetic materials based on time-resolved imaging combined with machine learning. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13114-13123.	5.2	9
21	Access to Green Pyrotechnic Compositions via Constructing Coordination Polymers: A New Approach to the Application of 3,4-Dinitropyrazole. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32084-32095.	4.0	18
22	Transition metal (Mn/Co/Ni/Cu) complexes based on 1-ethylimidazole and dicyandiamide: syntheses, characterizations, and catalytic effects on the thermal decomposition of ammonium perchlorate. <i>Journal of Energetic Materials</i> , 2021, 39, 215-227.	1.0	11
23	Design of functionalized bridged 1,2,4-triazole N-oxides as high energy density materials and their comprehensive correlations. <i>RSC Advances</i> , 2021, 11, 27420-27430.	1.7	4
24	Engaging DBFO as a C1N1 two-atom synthon in [3 + 2] cycloaddition reaction: synthesis of the energetic material 5-azidotetrazolate N-oxide. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2420-2428.	2.3	8
25	Theoretical study of effects of introducing varying linkages into bis-triazoles on energetic performance. <i>Journal of Molecular Modeling</i> , 2021, 27, 24.	0.8	4
26	Boosting intermolecular interactions of fused cyclic explosives: the way to thermostable and insensitive energetic materials with high density. <i>New Journal of Chemistry</i> , 2021, 45, 9358-9367.	1.4	13
27	Nitro-tetrazole based high performing explosives: Recent overview of synthesis and energetic properties. <i>Defence Technology</i> , 2021, 17, 1995-2010.	2.1	42
28	High-Energy Metal-Organic Frameworks with a Dicyanamide Linker for Hypergolic Fuels. <i>Inorganic Chemistry</i> , 2021, 60, 5100-5106.	1.9	21
29	New Energetic Complexes as Catalysts for Ammonium Perchlorate Thermal Decomposition. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1193-1198.	2.6	22
30	Construction of Coplanar Bicyclic Backbones for 1,2,4-Triazole-1,2,4-Oxadiazole-Derived Energetic Materials. <i>Chemistry - A European Journal</i> , 2021, 27, 13807-13818.	1.7	17
31	Synthesis and properties of transition metal coordination energetic materials based on a versatile and multifunctional 1-Aminotetrazol-5-one ligand. <i>Inorganica Chimica Acta</i> , 2021, 525, 120468.	1.2	5
32	Amorphous CoS <sub>1.4</sub> ultrathin nanosheets/amorphous N-doped carbon nanobox: A dual-amorphous confined structure for superior potassium storage. <i>Journal of Power Sources</i> , 2021, 506, 230117.	4.0	11
33	Synthesis and characterization of energetic compounds based on N-oxidation of 5-Nitroso-2,4,6-triaminopyrimidine. <i>Journal of Molecular Structure</i> , 2021, 1242, 130732.	1.8	1
34	Design and properties of a new family of wing-like and propeller-like multi-tetrazole molecules as potential high-energy density compounds. <i>Journal of Molecular Modeling</i> , 2021, 27, 308.	0.8	1
35	Hypergolic coordination compounds as modifiers for ionic liquid propulsion. <i>Chemical Engineering Journal</i> , 2021, 423, 130187.	6.6	22
36	Cyanoborohydride (CBH)-based hypergolic coordination compounds for versatile fuels. <i>Chemical Engineering Journal</i> , 2021, 426, 131866.	6.6	5

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37	Synthesis and characterization of promising insensitive energetic salts based on 3-amino-5-hydrazinopyrazole. Dalton Transactions, 2021, 50, 7456-7463.	1.6	11
38	Energetic metal-organic frameworks achieved from furazan and triazole ligands: synthesis, crystal structure, thermal stability and energetic performance. New Journal of Chemistry, 2021, 45, 22299-22305.	1.4	13
39	Competitive Coordination of Azide Groups: Synthesis of Solvent-Free and Chlorine-Free Primary Explosives Based on 3-Amino-1-nitroguanidine. Crystal Growth and Design, 2021, 21, 7002-7007.	1.4	13
40	4,5-Dicyano-1,2,3-Triazole—A Promising Precursor for a New Family of Energetic Compounds and Its Nitrogen-Rich Derivatives: Synthesis and Crystal Structures. Molecules, 2021, 26, 6735.	1.7	10
41	New perspective on the laser initiation for metal tetrazine complexes: a theoretical study. Physical Chemistry Chemical Physics, 2021, , .	1.3	1
42	Molecular design of a new family of bridged bis(multinitro-triazole) with outstanding oxygen balance as high-density energy compounds. International Journal of Quantum Chemistry, 2020, 120, e26056.	1.0	5
43	The effects of $Zn^{2+}$ and $ClO_4^-$ in the excellent primary explosive $Zn(CHZ)_3(ClO_4)_2$ . International Journal of Quantum Chemistry, 2020, 120, e26107.	1.0	3
44	Transition Metal Complexes Based on Hypergolic Anions for Catalysis of Ammonium Perchlorate Thermal Decomposition. Energy & Fuels, 2020, 34, 14667-14675.	2.5	37
45	Constructing a 3D-layered energetic metal-organic framework with the strong stacking interactions of hydrogen-bridged rings: the way to an insensitive high energy complex. CrystEngComm, 2020, 22, 5436-5446.	1.3	16
46	Structure and Stability of Aromatic Nitrogen Heterocycles Used in the Field of Energetic Materials. Molecules, 2020, 25, 3232.	1.7	16
47	Tetrazole and Azido Derivatives of Pyrimidine: Synthesis, Mechanism, Thermal Behaviour & Steering of Azido-Tetrazole Equilibrium. ChemistrySelect, 2020, 5, 5414-5421.	0.7	11
48	A new oxygen-rich energetic salt dihydrazine tetranitroethide: a promising explosive alternative with high density and good performance. RSC Advances, 2020, 10, 23250-23253.	1.7	2
49	Origins of Salt Formation and Cocrystallization: A Combined Experimental and Theoretical Study. Crystal Growth and Design, 2020, 20, 5834-5842.	1.4	18
50	CPMD investigation of $\hat{\mu}$ -RDX and $\hat{\mu}$ -CL-20: the transition of deflagration to detonation depending on the self-produced radicals. Physical Chemistry Chemical Physics, 2020, 22, 7421-7429.	1.3	5
51	Synthesis and investigation of alkaline energetic coordination polymers based on 1,2,3-triazole-4,5-dicarboxylic acid for green component of pyrotechnics. CrystEngComm, 2020, 22, 3768-3776.	1.3	14
52	Theoretical studies of pentazole-based compounds with high detonation performance. Journal of Energetic Materials, 2019, 37, 433-444.	1.0	11
53	Dimethoxycarbonyl Groups Surrounding a Symmetric Diaminobistetrazole Ring: Exploring New Green Energetic Materials. Chemistry - an Asian Journal, 2019, 14, 3845-3849.	1.7	7
54	New green energetic materials based on unsymmetrically substituted pyrazole-tetrazines and their hydroperchlorates. New Journal of Chemistry, 2019, 43, 18637-18646.	1.4	8

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55	Planar, Energetic, $\pi$ - $\pi$ -Stacked Compound with Weak Interactions Resulting in a High-Impact- and Low-Friction-Sensitive, Safer, Primary Explosive. <i>Inorganic Chemistry</i> , 2019, 58, 7653-7656.	1.9	32
56	Electronic Structure of Cubane-Like Vanadium Nitrogen Cationic Clusters $[V_4N_4]^+$ and $[V_6N_6]^+$ . <i>Inorganics</i> , 2019, 7, 52.	1.2	0
57	CPMD Investigations of the Improved Energetic Performance for Lithium Amidoborane doped RDX. <i>ChemistrySelect</i> , 2019, 4, 997-1006.	0.7	2
58	DFT studies on new family of high-energy density energetic bis(trinitromethyl) azo tetrazoles and triazoles. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3953.	0.9	4
59	Design and properties of a new family of bridged bis(nitraminotetrazoles) as promising energetic materials. <i>New Journal of Chemistry</i> , 2019, 43, 4235-4241.	1.4	11
60	Synthesis of 3,5-ditetrazolyl-1,2,4-triazole-based complexes: a strategy for developing C-N-linked triheterocyclic energetic compounds. <i>New Journal of Chemistry</i> , 2019, 43, 4975-4979.	1.4	5
61	Solvothermal Synthesis of Size-Controlled Monodispersed Superparamagnetic Iron Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5157.	1.3	18
62	Computational insight into a new family of functionalized tetrazole-N-oxides as high-energy density materials. <i>New Journal of Chemistry</i> , 2019, 43, 16454-16460.	1.4	9
63	Assembly, Structure, and Properties of Six Coordination Polymers Based on 1,3,5-Tri-4-pyridyl-1,2-ethenylbenzene. <i>Australian Journal of Chemistry</i> , 2019, 72, 751.	0.5	1
64	Design of New Bridge-Ring Energetic Compounds Obtained by Diels-Alder Reactions of Tetranitroethylene Dienophile. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3320-3327.	1.1	18
65	The mechanism of the chain-growth of ammoniaborane: A classic Lewis pairs catalysed by a Frustrated Lewis Pairs. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4177-4185.	3.8	7
66	1-Amine-1,2,3-triazolium salts with oxidizing anions: A new family of energetic materials with good performance. <i>Journal of Molecular Structure</i> , 2018, 1158, 88-95.	1.8	11
67	Theoretical Study of the Metal-Controlled Dehydrogenation Mechanism of $MN_2H_3BH_3$ ( $M = Li, Na, K$ ): A New Family of Hydrogen Storage Material. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1344-1349.	1.1	4
68	An Unusual Layered Crystal Packing Gives Rise to a Superior Thermal Stability of Energetic Salt of 3,6-bis(hydrazino)-1,2,4,5-tetrazine. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 512-517. <sup>0.6</sup>		4
69	Nitrogen-Rich Salts based on 1,1-dihydroxy-5,5-azobistetrazole: a New Family of Energetic Materials with Promising Properties. <i>ChemistrySelect</i> , 2018, 3, 3463-3473.	0.7	7
70	Nitrogen-rich salts of 5,5-bistetrazole-1,1-diolate: Syntheses, structures and properties. <i>Journal of Molecular Structure</i> , 2018, 1156, 544-549.	1.8	12
71	Alkaline and Earth Alkaline Energetic Materials Based on a Versatile and Multifunctional 1-Aminotetrazol-5-one Ligand. <i>Inorganic Chemistry</i> , 2018, 57, 15105-15111.	1.9	31
72	How hydrogen-storage material affects the decomposition of nitramine explosive: CPMD investigations of LAB-doped CL20. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19825-19840.	3.8	4

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73	Design of Zero Oxygen Balance Energetic Materials on the Basis of Diels-Alder Chemistry. <i>Journal of Organic Chemistry</i> , 2018, 83, 14698-14702.	1.7	28
74	High-pressure behavior and Hirshfeld surface analysis of nitrogen-rich materials: triazido-s-triazine (TAT) and triazido-s-heptazine (TAH). <i>Journal of Materials Science</i> , 2018, 53, 15977-15985.	1.7	6
75	Carboxylate-Assisted Assembly of Zinc and Cadmium Coordination Complexes of 1,3,5-Tri-4-pyridyl-1,2-ethenylbenzene: Structures and Visible-Light-Induced Photocatalytic Degradation of Congo Red in Water. <i>Crystal Growth and Design</i> , 2018, 18, 6172-6184.	1.4	37
76	High-Energy Nitramine Explosives: A Design Strategy from Linear to Cyclic to Caged Molecules. <i>ACS Omega</i> , 2018, 3, 9739-9745.	1.6	32
77	A Hyperconjugated Structure: The Research into the Picryl Chloride Functionalized 1-Picrylamino-tetrazolone. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 598-601.	0.6	1
78	Two Energetic Salts based on 5,5-Bitetrazole-1,1-diolate: Syntheses, Characterization, and Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 413-419.	0.6	4
79	Magnesium Azotetrazole-1,1-dioxide: Synthesis and Promising Properties of Green Insensitive Energetic Materials. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 432-436.	0.6	3
80	Theoretical study of the structure and dehydrogenation mechanism of sodium hydrazinidoborane. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750020.	1.8	3
81	What's the appropriate precondition for ammine metallic borohydrides to generate pure hydrogen?. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14936-14941.	3.8	5
82	A New Energetic Salt Semicarbazide 5-Dinitromethyltetrazolate: A Promising Explosive Alternative. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 635-642.	1.0	5
83	Computational design and screening of promising energetic materials: Novel azobis(tetrazoles) with ten catenated nitrogen atoms chain. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3674.	0.9	17
84	Cadmium(II) Coordination Polymers of 4-Pyr-poly-2-ene and Carboxylates: Construction, Structure, and Photochemical Double [2 + 2] Cycloaddition and Luminescent Sensing of Nitroaromatics and Mercury(II) Ions. <i>Crystal Growth and Design</i> , 2017, 17, 870-881.	1.4	83
85	Gem-diol and Ketone Crystal-to-crystal Transition Phenomena. <i>Scientific Reports</i> , 2017, 7, 13426.	1.6	8
86	Synthesis of a Novel Double Salt: Ammonium 3,4-Diamino-1,2,4-triazolium Styphnate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1178-1181.	0.6	1
87	Luminescent cadmium coordination polymers of 1,2,4,5-tetrakis(4-pyridylvinyl)benzene used as efficient multi-responsive sensors for toxic metal ions in water. <i>Dalton Transactions</i> , 2017, 46, 16861-16871.	1.6	57
88	Green Energetic Nitrogen-Rich Salts of 1,1-Dinitramino-5,5-bistetrazolate. <i>Chemistry - A European Journal</i> , 2017, 23, 11159-11168.	1.7	32
89	Sodium 1,1-dinitramino-5,5-bistetrazolate: A 3D metal-organic framework as green energetic material with good performance and thermo stability. <i>Inorganica Chimica Acta</i> , 2017, 455, 152-157.	1.2	16
90	Alkali and alkaline earth metal salts of tetrazolone: structurally interesting and excellently thermostable. <i>Dalton Transactions</i> , 2017, 46, 8422-8430.	1.6	16

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91	Coating of LiBH <sub>4</sub> and Its Effect on the Decomposition for RDX and AP. Central European Journal of Energetic Materials, 2017, 14, 134-151.	0.5	4
92	Oxygen-containing Tetrazole Salts of 3-Hydrazino-4-amino-1,2,4-triazole (HATr): Nitrogen-rich Ionic Materials with High Thermal Stability. Central European Journal of Energetic Materials, 2017, 14, 217-232.	0.5	3
93	Preparation, Crystal and Properties of Nitrogen-Rich Energetic Salt of Bis(semicarbazide) 5,5'-Bitetrazole-1,1'-diolate. Crystals, 2016, 6, 21.	1.0	5
94	Energetic Characteristics of HMX-Based Explosives Containing LiH. Propellants, Explosives, Pyrotechnics, 2016, 41, 1079-1084.	1.0	9
95	Energetic Salts Based on Tetrazole <i>N</i> -Oxide. Chemistry - A European Journal, 2016, 22, 7670-7685.	1.7	87
96	Replacement of 2,4,6-trinitrotoluene by two eutectics formed between 4-amino-1,2,4-triazolium nitrate and 4-amino-1,2,4-triazolium perchlorate. RSC Advances, 2016, 6, 44742-44748.	1.7	4
97	Synthesis, structure and characterization of 1-D polymer $\{[Sr(CHZ)_2(CLO)_4]ClO_4\}_n$ : a new concept for designing primary explosives. RSC Advances, 2016, 6, 46828-46833.	1.7	3
98	Energetic salts based on 3-hydrazino-4-amino-1,2,4-triazole (HATr): synthesis and properties. New Journal of Chemistry, 2016, 40, 5414-5419.	1.4	16
99	A biography of potassium complexes as versatile, green energetic materials. RSC Advances, 2016, 6, 98381-98405.	1.7	9
100	The nitrogen-rich energetic compound 4-carboxamide-5-(1H-tetrazol-5-yl)-1H-1,2,3-triazole and its 1D sodium complex: synthesis and properties. RSC Advances, 2016, 6, 101430-101436.	1.7	5
101	A theoretical investigation of the Frustrated Lewis Pairs of C/P and B/N in the metal-free hydrogen-storage compounds. International Journal of Hydrogen Energy, 2016, 41, 18963-18970.	3.8	4
102	Formation of Highly Thermostable Copper-Containing Energetic Coordination Polymers Based on Oxidized Triaminoguanidine. ACS Applied Materials & Interfaces, 2016, 8, 21674-21682.	4.0	25
103	Synthesis, crystal structure and properties of a new 1D polymeric nitrogen-rich energetic complex $\{TAG[Li(BTO)(H)_2O]\}_n$ based on 1H,5,5'-bitetrazole-1,1'-diolate. RSC Advances, 2016, 6, 73551-73559.		15
104	A novel insensitive cocrystal explosive BTO/ATZ: preparation and performance. RSC Advances, 2016, 6, 76075-76083.	1.7	33
105	1D Structure Sodium Coordination Anion based on $[5-(Dinitromethylene)-4,5-dihydro-1H-tetrazole]$ : Syntheses, Structures, and Thermal Behavior. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 949-952.	0.6	2
106	Preparation, Crystal Structure, and Thermal Analysis of Two Energetic Salts Based on Nitro Phenolic Compounds with Diamino-glyoxine. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 840-846.	0.6	1
107	Hydrazine 5,5'-bitetrazole-1,1'-diolate: a promising high density energetic salt with good properties. Dalton Transactions, 2016, 45, 19045-19052.	1.6	25
108	Synthesis, crystal structures and thermal stabilities of zinc coordination polymers containing the 3-hydrazino-4-amino-1,2,4-triazole ligand. Journal of Coordination Chemistry, 2016, 69, 1559-1567.	0.8	3

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109	Nitrogen-Rich Amino-triazolium Salts Based on Binary 4,5-Dicyano-1,2,3-triazolate (C <sub>4</sub> N <sub>5</sub> <sup>-</sup> ) Anion. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 409-413.	0.6	1
110	High pressure studies of Ni <sub>3</sub> [(C <sub>2</sub> H <sub>5</sub> N <sub>5</sub> ) <sub>6</sub> (H <sub>2</sub> O) <sub>6</sub> ](NO <sub>3</sub> ) <sub>9</sub> by Raman scattering, IR absorption, and synchrotron X-ray diffraction. <i>RSC Advances</i> , 2016, 6, 65031-65037.	1.7	9
111	Structural Diversity and Properties of M(II) Coordination Compounds Constructed by 3-Hydrazino-4-amino-1,2,4-triazole Dihydrochloride as Starting Material. <i>Inorganic Chemistry</i> , 2016, 55, 322-329.	1.9	25
112	Two Energetic Ionic Salts of en <sup>+</sup> ·PA <sup>-</sup> ·H <sub>2</sub> O and en <sup>+</sup> ·TNR: Preparation, Structural Characterization, and Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 449-455.	0.6	1
113	The mechanism of controllable dehydrogenation: CPMD study of M(BH <sub>4</sub> ) <sub>x</sub> (NH <sub>3</sub> ) <sub>y</sub> (M = Li, Mg) decomposition. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7015-7018.	1.3	10
114	Syntheses, crystal structures and thermal analyses of two new ionic complexes based on 3,4-diamino-1,2,4-triazole. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1236-1243.	0.8	3
115	Computational studies on two novel energetic nitrogen-rich compounds based on tetrazolone. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 29-34.	0.9	10
116	Synthesis and Characterization of Four Energetic Transition Metal Complexes of 3,4-Diamino-1,2,4-triazole. <i>Central European Journal of Energetic Materials</i> , 2016, 13, 301-320.	0.5	3
117	A comparative theoretical study on energetic substituted 1,2,3- and 1,2,4-triazoles: the azido-cyclization mechanism and the effect of solvent. <i>New Journal of Chemistry</i> , 2015, 39, 3882-3888.	1.4	3
118	Multistep Thermolysis Mechanisms of Azido-triazine Derivatives and Kinetic Compensation Effects for the Rate-Limiting Processes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14861-14872.	1.5	22
119	Electronic structures and dehydrogenation properties of bimetallic amidoboranes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2500-2508.	3.8	7
120	Facile synthesis of a Ag( <sup>+</sup> )-doped coordination polymer with enhanced catalytic performance in the photodegradation of azo dyes in water. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5908-5916.	5.2	117
121	Extensive theoretical studies on two new members of the FOX-7 family: 5-(dinitromethylene)-1,4-dinitramino-tetrazole and 1,1-dinitro-4,4-diamino-5,5-bitetrazole as energetic compounds. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5840-5848.	1.3	44
122	Energetic Oxygen-Containing Tetrazole Salts Based on 3,4-Diaminotriazole. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1239-1244.	1.7	16
123	Cd(II) complexes with different nuclearity and dimensionality based on 3-hydrazino-4-amino-1,2,4-triazole. <i>Journal of Solid State Chemistry</i> , 2015, 226, 59-65.	1.4	17
124	Nitrogen-rich salts of 1-aminotetrazol-5-one: oxygen-containing insensitive energetic materials with high thermal stability. <i>RSC Advances</i> , 2015, 5, 60005-60014.	1.7	13
125	Theoretical study on the azido-cyclization of 3,6-diazido-1,2,4,5-tetrazine (DAT) with the dimethylsulfoxide (DMSO) solvent. <i>Computational and Theoretical Chemistry</i> , 2015, 1068, 142-148.	1.1	1
126	Theoretical kinetic study on the decomposition of 1,5-diaminotetrazole. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 423-427.	0.9	2



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134	A novel compound [Mn(H <sub>2</sub> O) <sub>6</sub> ](AMTZ) <sub>2</sub> (PA) <sub>2</sub> (AMTZ = 4-amino-3,5-dimethyl-1,2,4-triazole and PA =) <i>Tj ETQq0 0 0 rgBT /Overlock 10 TF Chemistry</i> , 2014, 13, 41-52.	0.4	1
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195	Preparation, Crystal Structure, and Thermal Decomposition of Two Novel Energetic Compounds [Ni(IMI) <sub>6</sub> ](L) <sub>2</sub> (L = ClO <sub>4</sub> <sup>-</sup> and Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187	0.6	17
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