

Feng-Qi Zhao

List of Publications by Year in descending order

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82
papers

2,055
citations

279798

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265206

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all docs

82
docs citations

82
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly energetic compositions based on functionalized carbon nanomaterials. <i>Nanoscale</i> , 2016, 8, 4799-4851.	5.6	290
2	Catalytic effects of nano additives on decomposition and combustion of RDX-, HMX-, and AP-based energetic compositions. <i>Progress in Energy and Combustion Science</i> , 2016, 57, 75-136.	31.2	283
3	Thermal behaviors, nonisothermal decomposition reaction kinetics, thermal safety and burning rates of BTATz-CMDB propellant. <i>Journal of Hazardous Materials</i> , 2010, 181, 432-439.	12.4	113
4	Thermal behavior, specific heat capacity and adiabatic time-to-explosion of G(FOX-7). <i>Journal of Hazardous Materials</i> , 2008, 158, 333-339.	12.4	76
5	Thermochemical Properties, Thermal Behavior and Decomposition Mechanism of 1,1-Diamino-2,2-dinitroethylene (DADE). <i>Chinese Journal of Chemistry</i> , 2006, 24, 177-181.	4.9	62
6	Review on the Reactivity of 1,1-Diamino-2,2-dinitroethylene (FOX-7). <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 35-52.	1.6	59
7	Nonisothermal Decomposition Kinetics and Computational Studies on the Properties of 2,4,6,8-Tetranitro-2,4,6,8-tetraazabicyclo[3,3,1]nonan-3,7-dione (TNPDU). <i>Journal of Physical Chemistry A</i> , 2007, 111, 8642-8649.	2.5	48
8	Preparation, characterization, non-isothermal reaction kinetics, thermodynamic properties, and safety performances of high nitrogen compound: Hydrazine 3-nitro-1,2,4-triazol-5-one complex. <i>Journal of Hazardous Materials</i> , 2008, 153, 261-268.	12.4	44
9	Crystal Structure, Safety Performance and Density-Functional Theoretical Investigation of 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Chinese Journal of Chemistry</i> , 2008, 26, 1997-2002.	4.9	43
10	Catalytic decomposition action of hollow CuFe ₂ O ₄ nanospheres on RDX and FOX-7. <i>RSC Advances</i> , 2015, 5, 75630-75635.	3.6	43
11	Catalytic action of nano Bi ₂ WO ₆ on thermal decompositions of AP, RDX, HMX and combustion of NG/NC propellant. <i>RSC Advances</i> , 2015, 5, 70323-70328.	3.6	41
12	Thermal decomposition kinetics of the Pb _{0.25} Ba _{0.75} (TNR)·H ₂ O complex. <i>Journal of Hazardous Materials</i> , 2005, 117, 103-110.	12.4	38
13	Synthesis and thermal behaviors of 4-amino-3,5-dinitro-1H-pyrazole. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 231-235.	5.5	36
14	Effects of Fe ₂ O ₃ nanoparticles on the thermal behavior and non-isothermal decomposition kinetics of nitrocellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 165-173.	5.5	34
15	Thermal behavior and safety of dihydroxylammonium 5,5-bistetrazole-1,1-diolate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 653-657.	3.6	33
16	Effects of Bi-NTO complex on thermal behaviors, nonisothermal reaction kinetics and burning rates of NG/TEGDN/NC propellant. <i>Journal of Hazardous Materials</i> , 2010, 176, 257-261.	12.4	32
17	Compatibility study of BAMO-GAP copolymer with some energetic materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 1301-1307.	3.6	32
18	Preparation, Crystal Structure and Theoretical Calculation of G(FOX-7). <i>Chinese Journal of Chemistry</i> , 2008, 26, 495-499.	4.9	30

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19	Thermal decomposition behavior, kinetics, and thermal hazard evaluation of CMDB propellant containing CL-20 by microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1451-1455.	3.6	29
20	Pb Single Atoms Enable Unprecedented Catalytic Behavior for the Combustion of Energetic Materials. <i>Advanced Science</i> , 2021, 8, 2002889.	11.2	27
21	Research on the thermal decomposition behavior of NEPE propellant containing CL-20. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 121-127.	5.5	26
22	Thermal decomposition mechanism and quantum chemical investigation of hydrazine 3-nitro-1,2,4-triazol-5-one (HNTO). <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 623-627.	3.6	25
23	Synthesis and thermal behavior of 4,5-dihydroxyl-2-(dinitromethylene)-imidazolidine (DDNI). <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 293-300.	3.6	25
24	Studies on Thermodynamic Properties of FOX-7 and Its Five Closed-Loop Derivatives. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2057-2061.	1.9	24
25	Thermochemical properties of 1,1-diamino-2,2-dinitroethylene (FOX-7) in dimethyl sulfoxide (DMSO). <i>Thermochimica Acta</i> , 2009, 491, 35-38.	2.7	23
26	Thermochemical Properties and Non-isothermal Decomposition Reaction Kinetics of N-Guanylurea Dinitramide (GUDN). <i>Chinese Journal of Chemistry</i> , 2010, 22, 136-141.	4.9	23
27	Combustion Effects of Nitrofulleropyrrolidine on RDX–CMDB Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 874-880.	1.6	22
28	Application and Properties of CL–20/HMX Cocrystal in Composite Modified Double Base Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 92-100.	1.6	22
29	Effects of nano-CuO particles on thermal decomposition behavior and decomposition mechanism of BAMO–GAP copolymer. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 88-93.	5.5	20
30	Adsorption and Decomposition Mechanism of 1,1–Diamino–2,2–dinitroethylene on Al(111) Surface by Periodic DFT Calculations. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2539-2548.	4.9	19
31	Preparation and Evaluation of Effective Combustion Catalysts Based on Cu(I)/Pb(II) or Cu(II)/Bi(II) Nanocomposites Carried by Graphene Oxide (GO). <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 1087-1095.	1.6	19
32	Nonisothermal Thermal Decomposition Reaction Kinetics of Double-base Propellant Catalyzed with Lanthanum Citrate. <i>Acta Physico-chimica Sinica</i> , 2007, 23, 1316-1320.	0.6	18
33	Non–isothermal Decomposition Kinetics, Specific Heat Capacity and Adiabatic Time–to–explosion of 1–Amino–1–hydrazino–2,2–dinitroethylene (AHDNE). <i>Chinese Journal of Chemistry</i> , 2009, 27, 665-671.	4.9	18
34	Synthesis and thermal behavior of a new high-energy organic potassium salt. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 585-591.	3.6	18
35	Effects of metal–organic complex Ni(Salen) on thermal decomposition of 1,1-diamino-2,2-dinitroethylene (FOX-7). <i>RSC Advances</i> , 2020, 10, 1769-1775.	3.6	16
36	Synthesis, crystal structure and thermal behavior of 4-amino-3,5-dinitropyrazole potassium salt. <i>Inorganica Chimica Acta</i> , 2013, 405, 505-510.	2.4	15

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37	BTATzâ€“HNIWâ€“CMDB propellants. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1227-1234.	3.6	15
38	Catalytic activity of nano-sized CuO on AP-CMDB propellant. Journal of Energetic Materials, 2019, 37, 484-495.	2.0	15
39	Differential and Integral Isoconversional Nonâ€“linear Methods and Their Application to Energetic Materials. III. Nonâ€“isothermal Decomposition Reaction Kinetics of Benzotrifuroxan. Chinese Journal of Chemistry, 2008, 26, 1973-1978.	4.9	14
40	Estimation of the Kinetic Parameters and the Critical Rate of Temperature Rise in the Thermal Explosion from the Exothermic Autocatalytic Decomposition of 3,4-Bis(4â€“nitrofurazan-3â€“yl)-2-oxofurazan (BNFOF) Using Non-isothermal Differential Scanning Calorimetry. Chinese Journal of Chemistry, 2006, 24, 631-636.	4.9	13
41	Thermal behavior and safety of 4,10-dinitro-2,6,8,12-tetraoxa-4,10-diazaisowutrzitane. Journal of Thermal Analysis and Calorimetry, 2015, 121, 839-842.	3.6	13
42	BTATz-CMDB propellants. Journal of Thermal Analysis and Calorimetry, 2011, 104, 1029-1036.	3.6	12
43	Specific Heat Capacity, Thermal Behavior, and Thermal Hazard of 2,4â€“Dinitroanisole. Propellants, Explosives, Pyrotechnics, 2012, 37, 179-182.	1.6	12
44	Synthesis and thermal behaviors of 1,8-dihydroxy-4,5-dinitroanthraquinone barium salt. Journal of Analytical and Applied Pyrolysis, 2014, 105, 295-300.	5.5	12
45	Syntheses and Thermal Behaviors of Rb(FOX-7) \cdot 2H ₂ O and Cs(FOX-7) \cdot 2H ₂ O. Bulletin of the Korean Chemical Society, 2010, 31, 2867-2872.	1.9	12
46	Structural Characterization and Thermal Behavior of a Novel Energetic Material: 1-Amino-1-(2,4-dinitrophenylhydrazinyl)-2,2-dinitroethylene. Bulletin of the Korean Chemical Society, 2011, 32, 2267-2273.	1.9	12
47	Thermal Behavior, Nonisothermal Decomposition Reaction Kinetics of Mixed Ester Double-base Gun Propellants. Chemical Research in Chinese Universities, 2008, 24, 608-614.	2.6	11
48	Thermochemical properties and thermokinetic behavior of energetic triazole ionic salts. Science China Chemistry, 2011, 54, 461-474.	8.2	11
49	A comparison of triazole crossâ€“linked polymers based on polyâ€“AMMO and GAP: Mechanical properties and curing kinetics. Journal of Applied Polymer Science, 2016, 133, .	2.6	10
50	A Simple Method Based on Harcourt-Esson's Equation to Estimate the Critical Temperature of Thermal Explosion for Energetic Materials Using Non-isothermal DSC. Chinese Journal of Chemistry, 2009, 27, 1067-1072.	4.9	9
51	Thermal behavior of 1,2,3-triazole nitrate. Journal of Thermal Analysis and Calorimetry, 2011, 104, 999-1004.	3.6	9
52	Dissolution properties of ammonium dipicrylamide in dimethyl sulfoxide and N-methyl pyrrolidone. Thermochimica Acta, 2012, 546, 138-142.	2.7	9
53	Energetic calcium(II) complexes of 3,6-bis(1H-1,2,3,4-tetrazol-5-yl-amino)1,2,4,5-tetrazine: synthesis, crystal structure, and thermal properties. Journal of Coordination Chemistry, 2017, 70, 2249-2260.	2.2	9
54	Tunable catalytic activity of energetic multi-metal hexanitro complexes for RDX decomposition and ignition. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105228.	5.5	9

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55	Thermal behavior of 3,4,5-triamino-1,2,4-triazole dinitramide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 989-992.	3.6	8
56	Promoting effects of polyacrylamide on ignition and combustion of Al/H ₂ O based fuels: Experimental studies of polyacrylamide aqueous solution flash pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 56-64.	5.5	8
57	Crystal structure and thermal behavior of oxy-bridged bis(1H-tetrazol-5-yl)furazan. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 333-337.	5.5	8
58	Effect of Particle Size on Reactivity and Combustion Characteristics of Aluminum Nanoparticles. <i>Combustion Science and Technology</i> , 2015, 187, 1036-1043.	2.3	8
59	Catalytic activity of K ₂ Ba[Ni(NO ₂) ₆] on the thermolysis and laser ignition of CL-20, FOX-7 and TKX-50. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 161, 110411.	4.0	8
60	Evaluating the Thermal Hazard of Double-Base Propellant SQ-2 by Using Microcalorimetry Method. <i>Chinese Journal of Chemistry</i> , 2010, 28, 1369-1372.	4.9	7
61	Dissolution Thermodynamics of 1,2,3-Triazole Nitrate in Water. <i>Journal of Solution Chemistry</i> , 2012, 41, 17-24.	1.2	7
62	Study on Thermal Decomposition Behavior, Gaseous Products, and Kinetic Analysis of Bis-(Dimethylglyoximate) Nickel(II) Complex Using TG-DSC-FTIR-MS Technique. <i>Catalysts</i> , 2020, 10, 331.	3.5	7
63	Thermal behavior of 3,4,5-triamino-1,2,4-triazole nitrate. <i>Thermochimica Acta</i> , 2010, 511, 174-178.	2.7	6
64	Thermochemical properties of hydrazinium dipicrylamine in N-methyl pyrrolidone and dimethyl sulfoxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 85-90.	3.6	6
65	Estimation of Critical Temperature of Thermal Explosion for Nitrosubstituted Azetidines Using Non-isothermal DSC. <i>Chinese Journal of Chemistry</i> , 2009, 27, 2145-2154.	4.9	5
66	Synthesis, crystal structure and thermal behavior of 4-amino-3,5-dinitropyrazole copper salt. <i>Chinese Chemical Letters</i> , 2014, 25, 902-906.	9.0	4
67	Synthesis and thermal behavior of 1,8-dihydroxy-4,5-dinitroanthraquinone manganese salt. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 468-471.	2.6	4
68	Polytriazoles based on alkyne terminated polybutadiene with and without urethane segments: Morphology and properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45178.	2.6	4
69	Double pentavalent (Sb ⁵⁺ , Nb ⁵⁺) and trivalent (Sm ³⁺ , Y ³⁺) co-doped Ti _{0.9} Zr _{0.1} O ₂ colossal dielectric permittivity multilayer ceramics for the miniaturization of the next-generation electronics. <i>Ceramics International</i> , 2020, 46, 23433-23441.	4.8	4
70	Dissolution of 3,4,5-Triamino-1,2,4-triazole Dinitramide in N-Methyl Pyrrolidone. <i>Journal of the Chinese Chemical Society</i> , 2010, 57, 338-342.	1.4	3
71	Synthesis, Crystal Structure and Thermal Behavior of 4,5-bis(acetoxyl)-2,4-dinitromethyleneimidazolidine. <i>Chinese Journal of Chemistry</i> , 2011, 29, 2293-2300.	4.9	3
72	Dissolution properties of 4,10-dinitro-2,6,8,12-tetraoxa-4,10-diazaisowurtzitan in N-methyl pyrrolidone. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 659-663.	3.6	3

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73	Synthesis and Thermodynamic Properties of M ₂ L [M=Li, Na; L=3,6-Bis(1H-1,2,3,4-tetrazol-5-yl-amino)-1,2,4,5-tetrazine]. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 254-259.	2.6	3
74	Dynamic measurement and correction of infrared radiation temperature for rocket motor exhaust plume. <i>FirePhysChem</i> , 2021, 1, 21-26.	3.4	3
75	A new method based on the non-isothermal kinetic equation to estimate the critical temperature of thermal explosion for energetic materials using non-isothermal DSC. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2011, 16, 247-251.	0.9	2
76	Thermal Behaviors of 2-(Dinitromethylene)-1,3-diazacycloheptane (DNDH). <i>Chinese Journal of Chemistry</i> , 2011, 29, 1576-1582.	4.9	2
77	Thermochemical properties of 2,4-dinitroanisole in N-methyl pyrrolidone and dimethyl sulfoxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1755-1761.	3.6	2
78	Synthesis, thermal behavior, and application of 4-amino-3,5-dinitropyrazole lead salt. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1219-1225.	3.6	2
79	Dissolution properties of ammonium dinitramide in N-methyl pyrrolidone. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 517-521.	3.6	2
80	The synthesis, crystal structure and thermal properties of an energetic compound: the hydrated azanium salt of 3,6-bis[(1 <i>H</i> -1,2,3,4-tetrazol-5-yl)amino]-1,2,4,5-tetrazine. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 941-945.	0.5	2
81	Synthesis, thermal behaviors and thermal safety of 1,3-di (azido-acetoxy)-2-ethyl-2-nitropropane. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 142, 104596.	5.5	1
82	The Dissolution Properties of 2-(1,1-Dinitromethylene)-1,3-diazepentane in N-methyl Pyrrolidone. <i>Journal of Solution Chemistry</i> , 2011, 40, 1427-1434.	1.2	0