

# Feng-Qi Zhao

## List of Publications by Year in descending order

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82  
papers

2,055  
citations

279798

23  
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265206

42  
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82  
all docs

82  
docs citations

82  
times ranked

1218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic activity of K <sub>2</sub> Ba[Ni(NO <sub>2</sub> ) <sub>6</sub> ] 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
2	Pb Single Atoms Enable Unprecedented Catalytic Behavior for the Combustion of Energetic Materials. <i>Advanced Science</i> , 2021, 8, 2002889.	11.2	27
3	Dynamic measurement and correction of infrared radiation temperature for rocket motor exhaust plume. <i>FirePhysChem</i> , 2021, 1, 21-26.	3.4	3
4	Tunable catalytic activity of energetic multi-metal hexanitro complexes for RDX decomposition and ignition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105228.	5.5	9
5	Application and Properties of CL <sub>20</sub> /HMX Cocrystal in Composite Modified Double Base Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 92-100.	1.6	22
6	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
7	Double pentavalent (Sb <sup>5+</sup> , Nb <sup>5+</sup> ) and trivalent (Sm <sup>3+</sup> , Y <sup>3+</sup> ) co-doped Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>2</sub> colossal dielectric permittivity multilayer ceramics for the miniaturization of the next-generation electronics. <i>Ceramics International</i> , 2020, 46, 23433-23441.	4.8	4
8	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
9	Catalytic activity of nano-sized CuO on AP-CMDB propellant. <i>Journal of Energetic Materials</i> , 2019, 37, 484-495.	2.0	15
10	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
11	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
12	Synthesis and Thermodynamic Properties of M <sub>2</sub> 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
13	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
14	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. <i>Journal of Coordination Chemistry</i> , 2017, 70, 2249-2260.	2.2	9
15	The synthesis, crystal structure and thermal properties of an energetic compound: the hydrated azanium salt of 3,6-bis(1H-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
16	Effects of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> 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
17	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
18	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

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19	Research on the thermal decomposition behavior of NEPE propellant containing CL-20. Journal of Analytical and Applied Pyrolysis, 2016, 121, 121-127.	5.5	26
20	A comparison of triazole cross-linked polymers based on poly(AMMO) and (GAP): Mechanical properties and curing kinetics. Journal of Applied Polymer Science, 2016, 133, .	2.6	10
21	Highly energetic compositions based on functionalized carbon nanomaterials. Nanoscale, 2016, 8, 4799-4851.	5.6	290
22	Compatibility study of BAMO-GAP copolymer with some energetic materials. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1301-1307.	3.6	32
23	Thermal behavior and safety of dihydroxylammonium 5,5-bis(2-tetrazole-1,1-diolate). Journal of Thermal Analysis and Calorimetry, 2016, 123, 653-657.	3.6	33
24	Dissolution properties of 4,10-dinitro-2,6,8,12-tetraoxa-4,10-diazaisowurtzitanes in N-methyl pyrrolidone. Journal of Thermal Analysis and Calorimetry, 2016, 123, 659-663.	3.6	3
25	Effects of nano-CuO particles on thermal decomposition behavior and decomposition mechanism of BAMO-GAP copolymer. Journal of Analytical and Applied Pyrolysis, 2015, 112, 88-93.	5.5	20
26	Studies on Thermodynamic Properties of FOX-7 and Its Five Closed-Loop Derivatives. Journal of Chemical & Engineering Data, 2015, 60, 2057-2061.	1.9	24
27	Thermal behavior and safety of 4,10-dinitro-2,6,8,12-tetraoxa-4,10-diazaisowurtzitanes. Journal of Thermal Analysis and Calorimetry, 2015, 121, 839-842.	3.6	13
28	Catalytic action of nano Bi <sub>2</sub> WO <sub>6</sub> on thermal decompositions of AP, RDX, HMX and combustion of NG/NC propellant. RSC Advances, 2015, 5, 70323-70328.	3.6	41
29	Effect of Particle Size on Reactivity and Combustion Characteristics of Aluminum Nanoparticles. Combustion Science and Technology, 2015, 187, 1036-1043.	2.3	8
30	Catalytic decomposition action of hollow CuFe <sub>2</sub> O <sub>4</sub> nanospheres on RDX and FOX-7. RSC Advances, 2015, 5, 75630-75635.	3.6	43
31	Thermochemical properties of 2,4-dinitroanisole in N-methyl pyrrolidone and dimethyl sulfoxide. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1755-1761.	3.6	2
32	BTATz-HNIW-CMDB propellants. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1227-1234.	3.6	15
33	Synthesis, thermal behavior, and application of 4-amino-3,5-dinitropyrazole lead salt. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1219-1225.	3.6	2
34	Synthesis, crystal structure and thermal behavior of 4-amino-3,5-dinitropyrazole copper salt. Chinese Chemical Letters, 2014, 25, 902-906.	9.0	4
35	Crystal structure and thermal behavior of oxy-bridged bis(1H-tetrazol-5-yl)furazan. Journal of Analytical and Applied Pyrolysis, 2014, 110, 333-337.	5.5	8
36	Combustion Effects of Nitrofulleropyrrolidine on RDX-CMDB Propellants. Propellants, Explosives, Pyrotechnics, 2014, 39, 874-880.	1.6	22

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37	Dissolution properties of ammonium dinitramide in N-methyl pyrrolidone. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 517-521.	3.6	2
38	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
39	Synthesis and thermal behaviors of 1,8-dihydroxy-4,5-dinitroanthraquinone barium salt. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 295-300.	5.5	12
40	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
41	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
42	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
43	Dissolution properties of ammonium dipicrylamide in dimethyl sulfoxide and N-methyl pyrrolidone. <i>Thermochimica Acta</i> , 2012, 546, 138-142.	2.7	9
44	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
45	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
46	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
47	Specific Heat Capacity, Thermal Behavior, and Thermal Hazard of 2,4-Dinitroanisole. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 179-182.	1.6	12
48	Dissolution Thermodynamics of 1,2,3-Triazole Nitrate in Water. <i>Journal of Solution Chemistry</i> , 2012, 41, 17-24.	1.2	7
49	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
50	Thermal behavior of 1,2,3-triazole nitrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 999-1004.	3.6	9
51	Synthesis and thermal behavior of 4,5-dihydroxy-2-(dinitromethylene)-imidazolidine (DDNI). <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 293-300.	3.6	25
52	BTATz-CMDB propellants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 1029-1036.	3.6	12
53	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
54	Thermochemical properties and thermokinetic behavior of energetic triazole ionic salts. <i>Science China Chemistry</i> , 2011, 54, 461-474.	8.2	11

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55	Thermal Behaviors of 2,3-Dinitromethylene-1,3-diazacycloheptane (DNDH). Chinese Journal of Chemistry, 2011, 29, 1576-1582.	4.9	2
56	Synthesis, Crystal Structure and Thermal Behavior of 4,5-Diacetoxy-2-(dinitromethylene)imidazolidine. Chinese Journal of Chemistry, 2011, 29, 2293-2300.	4.9	3
57	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
58	Thermal decomposition mechanism and quantum chemical investigation of hydrazine 3-nitro-1,2,4-triazol-5-one (HNTO). Journal of Thermal Analysis and Calorimetry, 2010, 100, 623-627.	3.6	25
59	Thermal behavior of 3,4,5-triamino-1,2,4-triazole dinitramide. Journal of Thermal Analysis and Calorimetry, 2010, 102, 989-992.	3.6	8
60	Thermochemical Properties and Non-isothermal Decomposition Reaction Kinetics of N-Guanylurea Dinitramide (GUDN). Chinese Journal of Chemistry, 2010, 22, 136-141.	4.9	23
61	Evaluating the Thermal Hazard of Double-Base Propellant SQ-2 by Using Microcalorimetry Method. Chinese Journal of Chemistry, 2010, 28, 1369-1372.	4.9	7
62	Promoting effects of polyacrylamide on ignition and combustion of Al/H <sub>2</sub> O based fuels: Experimental studies of polyacrylamide aqueous solution flash pyrolysis. Journal of Analytical and Applied Pyrolysis, 2010, 87, 56-64.	5.5	8
63	Effects of Bi-NTO complex on thermal behaviors, nonisothermal reaction kinetics and burning rates of NG/TEGDN/NC propellant. Journal of Hazardous Materials, 2010, 176, 257-261.	12.4	32
64	Thermal behaviors, nonisothermal decomposition reaction kinetics, thermal safety and burning rates of BTATz-CMDB propellant. Journal of Hazardous Materials, 2010, 181, 432-439.	12.4	113
65	Thermal behavior of 3,4,5-triamino-1,2,4-triazole nitrate. Thermochimica Acta, 2010, 511, 174-178.	2.7	6
66	Dissolution of 3,4,5-Triamino-1,2,4-triazole Dinitramide in N-Methyl Pyrrolidone. Journal of the Chinese Chemical Society, 2010, 57, 338-342.	1.4	3
67	Syntheses and Thermal Behaviors of Rb(FOX-7)·2H <sub>2</sub> O and Cs(FOX-7)·2H <sub>2</sub> O. Bulletin of the Korean Chemical Society, 2010, 31, 2867-2872.	1.9	12
68	Non-isothermal Decomposition Kinetics, Specific Heat Capacity and Adiabatic Time to Explosion of 1-Amino-1-hydrazino-2,2-dinitroethylene (AHDNE). Chinese Journal of Chemistry, 2009, 27, 665-671.	4.9	18
69	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
70	Estimation of Critical Temperature of Thermal Explosion for Nitrosubstituted Azetidines Using Non-isothermal DSC. Chinese Journal of Chemistry, 2009, 27, 2145-2154.	4.9	5
71	Thermochemical properties of 1,1-diamino-2,2-dinitroethylene (FOX-7) in dimethyl sulfoxide (DMSO). Thermochimica Acta, 2009, 491, 35-38.	2.7	23
72	Preparation, Crystal Structure and Theoretical Calculation of G(FOX-7). Chinese Journal of Chemistry, 2008, 26, 495-499.	4.9	30

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73	Differential and Integral Isoconversional Non-linear Methods and Their Application to Energetic Materials. III. Non-isothermal Decomposition Reaction Kinetics of Benzotrifuroxan. Chinese Journal of Chemistry, 2008, 26, 1973-1978.	4.9	14
74	Crystal Structure, Safety Performance and Density-Functional Theoretical Investigation of 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). Chinese Journal of Chemistry, 2008, 26, 1997-2002.	4.9	43
75	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. Journal of Hazardous Materials, 2008, 153, 261-268.	12.4	44
76	Thermal behavior, specific heat capacity and adiabatic time-to-explosion of G(FOX-7). Journal of Hazardous Materials, 2008, 158, 333-339.	12.4	76
77	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
78	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). Journal of Physical Chemistry A, 2007, 111, 8642-8649.	2.5	48
79	Nonisothermal Thermal Decomposition Reaction Kinetics of Double-base Propellant Catalyzed with Lanthanum Citrate. Acta Physico-chimica Sinica, 2007, 23, 1316-1320.	0.6	18
80	Thermochemical Properties, Thermal Behavior and Decomposition Mechanism of 1,1-Diamino-2,2-dinitroethylene (DADE). Chinese Journal of Chemistry, 2006, 24, 177-181.	4.9	62
81	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(4-nitrofuran-3-yl)-2-oxofurazan (BNFOF) Using Non-isothermal Differential Scanning Calorimetry. Chinese Journal of Chemistry, 2006, 24, 631-636.	4.9	13
82	Thermal decomposition kinetics of the Pb <sub>0.25</sub> Ba <sub>0.75</sub> (TNR)·H <sub>2</sub> O complex. Journal of Hazardous Materials, 2005, 117, 103-110.	12.4	38