

Sun Jie

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Five Energetic Cocrystals of BTF by Intermolecular Hydrogen Bond and π -Stacking Interactions. <i>Crystal Growth and Design</i> , 2013, 13, 679-687.	3.0	167
2	Study on a novel energetic cocrystal of TNT/TNB. <i>Journal of Materials Science</i> , 2013, 48, 1351-1357.	3.7	66
3	Host-guest energetic materials constructed by incorporating oxidizing gas molecules into an organic lattice cavity toward achieving highly-energetic and low-sensitivity performance. <i>Chemical Communications</i> , 2019, 55, 909-912.	4.1	50
4	Polymorphism in hexanitrohexaazaisowurtzitane crystallized from solution. <i>Journal of Crystal Growth</i> , 2012, 354, 13-19.	1.5	48
5	Transitions from Separately Crystallized CL-20 and HMX to CL-20/HMX Cocrystal Based on Solvent Media. <i>Crystal Growth and Design</i> , 2018, 18, 77-84.	3.0	42
6	Kinetic model of thermal decomposition of CL-20/HMX co-crystal for thermal safety prediction. <i>Thermochimica Acta</i> , 2019, 674, 44-51.	2.7	26
7	Self-Assembly of 2D Nanosheets into 3D Dendrites Based on the Organic Small Molecule ANPZ and Their Size-Dependent Thermal Properties. <i>Crystal Growth and Design</i> , 2012, 12, 3418-3425.	3.0	25
8	Enhanced sensing properties of CuO nanosheets for volatile organic compounds detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 280-287.	2.2	22
9	Establishment of Constitutive Model of Silicone Rubber Foams Based on Statistical Theory of Rubber Elasticity. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 1077-1083.	3.8	20
10	How comb-type poly(maleic acid alkylamide-co-1-octadecene) assemble in waxy oils and improve flowing ability. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 551-556.	1.5	16
11	Investigation on the Thermal Expansion of Four Polymorphs of Crystalline CL-20. <i>Journal of Energetic Materials</i> , 2016, 34, 205-215.	2.0	16
12	Experimental and Theoretical Study on the Stability of CL-20-Based Host-Guest Energetic Materials. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6389-6398.	2.5	16
13	Characterization of Crystal Microstructure Based on Small Angle X-ray Scattering (SAXS) Technique. <i>Molecules</i> , 2020, 25, 443.	3.8	16
14	Two Novel Melt-Cast Cocrystal Explosives Based on 2,4-Dinitroanisole with Significantly Decreased Melting Point. <i>Crystal Growth and Design</i> , 2019, 19, 6826-6830.	3.0	15
15	Investigation on the thermal expansion of β -CL-20 with different water contents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 1355-1364.	3.6	14
16	Effects of Chemical State of the Pd Species on H ₂ Sensing Characteristics of PdOx/SnO ₂ Based Chemiresistive Sensors. <i>Sensors</i> , 2019, 19, 3131.	3.8	14
17	Thermally Induced Polymorphic Transformation of Hexanitrohexaazaisowurtzitane (HNIW) Investigated by in-situ X-ray Powder Diffraction. <i>Central European Journal of Energetic Materials</i> , 2016, 13, 1023-1037.	0.4	14
18	Thermal expansion and theoretical density of 2,2,4,4,6,6-hexanitrostilbene. <i>Journal of Materials Science</i> , 2011, 46, 2536-2540.	3.7	13

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19	Crystal Morphology Controlling of TATB by High Temperature Anti-Solvent Recrystallization. Propellants, Explosives, Pyrotechnics, 2012, 37, 172-178.	1.6	12
20	The Temperature-Dependent Thermal Expansion of 2,6-Diamino-3,5-dinitropyrazine-1-oxide Effected by Hydrogen Bond Network Relaxation. Journal of Energetic Materials, 2016, 34, 170-182.	2.0	12
21	An experimental and theoretical study on the growth of plate-like $\hat{1}^2$ -HMX crystals in the hydroxylated interlayer space. Physical Chemistry Chemical Physics, 2021, 23, 12340-12349.	2.8	11
22	Smart Host-Guest Energetic Material Constructed by Stabilizing Energetic Fuel Hydroxylamine in Lattice Cavity of 2,4,6,8,10,12-Hexanitrohexaazaisowurtzitane Significantly Enhanced the Detonation, Safety, Propulsion, and Combustion Performances. ACS Applied Materials & Interfaces, 2021, 13, 61324-61333.	8.0	11
23	Effect of OPS Dispersion Method on the Free Volume of Polyurethane by Positron Annihilation Lifetime Spectroscopy (PALS). Polymer-Plastics Technology and Engineering, 2012, 51, 396-400.	1.9	10
24	Ultra-incompressibility and high energy density of ReN8 with infinite nitrogen chains. Journal of Materials Science, 2021, 56, 3814-3826.	3.7	9
25	Design, preparation, characterization and formation mechanism of a novel kinetic CL-20-based cocrystal. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 310-317.	1.1	7
26	The competition between cocrystallization and separated crystallization based on crystallization from solution. Journal of Applied Crystallography, 2019, 52, 769-776.	4.5	6
27	Thermal Kinetics of Energetic CL-20/BTF Cocrystal Induced by Strong Intermolecular Coupling. Journal of Physical Chemistry C, 2022, 126, 8199-8207.	3.1	6
28	Synthesis of poly(maleic acid alkylamide-co- $\hat{1}^2$ -olefin-co-styrene) and their effect on flow ability of oils. Frontiers of Chemical Science and Engineering, 2011, 5, 74-78.	4.4	5
29	Synthesis of Waterborne Polyurethane for Coating on HNIW. Advanced Materials Research, 0, 194-196, 2425-2428.	0.3	5
30	Influence of ammonia sources on the gas sensing properties of the direct grown ZnO nanomaterials. Journal of Materials Science: Materials in Electronics, 2016, 27, 4711-4722.	2.2	5
31	$\hat{1}^3$ -Irradiation Induced Decomposition of Polydopamine Nanoparticles under Ambient Condition. Chemistry Letters, 2019, 48, 426-428.	1.3	5
32	Thermal hazard evaluation of N-guanylurea dinitramide (GUDN) by using kinetic-based simulation approach. Journal of Thermal Analysis and Calorimetry, 2020, 141, 905-913.	3.6	5
33	Effect of metal ion impurities on the crystallization and thermal properties of HMX. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6109-6118.	3.6	5
34	Prediction of crystal morphology of 1,3,5-triamino-2,4,6-trinitrobenzene in dimethyl sulfoxide via modified attachment energy modeling and its experimental validation. Molecular Crystals and Liquid Crystals, 2016, 634, 97-103.	0.9	4
35	Pressure-Induced In Situ Construction of P-CO/HNIW Explosive Composites with Excellent Laser Initiation and Detonation Performance. ACS Applied Materials & Interfaces, 2021, 13, 20718-20727.	8.0	4
36	Kinetic Modeling of Overlapping Thermal Decomposition of 2,6-Diamino-3,5-dinitropyrazine-1-oxide: Two Consecutive Autocatalytic Reactions and the Thermal Safety Assessment. Journal of Physical Chemistry C, 2021, 125, 21402-21409.	3.1	3

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37	Investigation on the Evolution of Nano-Scale Defects of CL-20 Crystals under Thermal Treatment by Wide/Small-Angle X-ray Scattering. <i>Materials</i> , 2022, 15, 4258.	2.9	3
38	Dependence of the Avrami Exponent on Supercooling During Nonisothermal Crystallization of Poly(phenylene sulfide). <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 324-326.	1.9	2
39	A New Insight to the Color Change Phenomenon of TATB: Structural Color. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 1247-1251.	1.6	2
40	Host-guest energetic materials: a promising strategy of incorporating small insensitive molecule into the lattice cavities of 2,4,6,8,10,12-hexanitrohexaazaisowurtzitan to enhance the safety on the premise of maintaining the excellent energy density. <i>CrystEngComm</i> , 2022, 24, 3409-3415.	2.6	2
41	Characterization of Nano-Scale Parallel Lamellar Defects in RDX and HMX Single Crystals by Two-Dimension Small Angle X-ray Scattering. <i>Molecules</i> , 2022, 27, 3871.	3.8	2
42	Improving gas-sensing performance of reduced graphene oxide using polycrystalline SnO ₂ nanoparticles as sensitizer. , 2016, , .		0
43	Research on Ethanol Sensing Characteristics of Pd/Connected-ZnO Based Chemiresistive Sensors. <i>ChemistrySelect</i> , 2021, 6, 4797-4802.	1.5	0