Wei Cao

List of Publications by Year
in descending order

27 papers	259 citations	1040056 9 h-index	996975 15 g-index
28 all docs	28 docs citations	28 times ranked	245 citing authors

#	Article	IF	Citations
1	Calculating detonation performance of explosives by VLWR thermodynamics code introduced with universal VINET equation of state. Defence Technology, 2022, 18, 1041-1051.	4.2	1
2	Evaluation of detonation performance and working capacity of explosives by optimized VLW EOS. Combustion and Flame, 2022, 235, 111734.	5.2	5
3	Fragment-interconnected nitrogen-doped porous carbon nanosheets loaded with platinum group metals for highly boosted hydrogen evolution reaction in alkaline solution. Journal of Colloid and Interface Science, 2022, 605, 528-536.	9.4	5
4	Laser ignition and combustion characteristics of B-Al compound powder without and with HMX: A comparative study. Aerospace Science and Technology, 2022, 120, 107268.	4.8	11
5	Fabrication and Optimization Design of Multilayer Flyer Plates for Laser-Driven Loading. Laser and Particle Beams, 2022, 2022, .	1.0	0
6	Energy Performance of HMXâ€Based Aluminized Explosives Containing Polytetrafluoroethylene (PTFE). Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	5
7	An effective strategy to improve combustion and pressure output performance of HMX/Al. Combustion and Flame, 2022, 244, 112281.	5.2	1
8	Fabrication of gradient structured HMX/Al and its combustion performance. Combustion and Flame, 2021, 226, 222-228.	5.2	19
9	Thermally Stable and Lowâ€Sensitive Aluminized Explosives with Improved Detonation Performance. Propellants, Explosives, Pyrotechnics, 2021, 46, 1428-1435.	1.6	10
10	Experimental study of reaction properties of aluminum/polytetrafluoroethylene powder under laser ablation. AIP Advances, 2021, 11, 085010.	1.3	4
11	Laser ignition and combustion characteristics of micro- and nano-sized boron under different atmospheres and pressures. Combustion and Flame, 2021, 230, 111420.	5.2	33
12	Highly efficient nanocatalyst Ni1Co9@graphene for hydrolytic dehydrogenation of sodium borohydride. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1976-1982.	4.9	2
13	Effect of microstructure on short pulse duration shock initiation of TATB and initial response mechanism. Defence Technology, 2020, 16, 374-380.	4.2	8
14	Numerical investigation of self-sustaining modes of 2D planar detonations under concentration gradients in hydrogenâ€“oxygen mixtures. International Journal of Hydrogen Energy, 2020, 45, 29606-29615.	7.1	8
15	Laser ablation of aluminized RDX with added ammonium perchlorate or ammonium perchlorate/boron/magnesium hydride. Combustion and Flame, 2020, 221, 194-200.	5.2	15
16	Near-limit detonations of methaneâ€“oxygen mixtures in long narrow tubes. Shock Waves, 2020, 30, 713-719.	1.9	3
17	Design, Synthesis and High HER Performances of 3D Ni/Mo Sulfide on Ni Foam. ChemCatChem, 2020, 12, 1647-1652.	3.7	18
18	Detonation Characteristics of an Aluminized Explosive Added with Boron and Magnesium Hydride. Propellants, Explosives, Pyrotechnics, 2019, 44, 1393-1399.	1.6	22

#	Article	IF	Citations
19	Shock Initiation of Nanoâ€TATB Explosives under Shortâ€Duration Pulses. Propellants, Explosives, Pyrotechnics, 2019, 44, 138-143.	1.6	10
20	Effects of substrate temperature on the crystallization process and properties of mixed-ion perovskite layers. Journal of Materials Chemistry A, 2019, 7, 2804-2811.	10.3	24
21	Time-resolved imaging and spectroscopy diagnostic of aluminized RDX and pure RDX under nanosecond laser ablation. AIP Advances, 2019, 9, 035250.	1.3	4
22	Study on Energy Output Characteristics of Explosives Containing B/Al in the Air Blast. Combustion, Explosion and Shock Waves, 2019, 55, 723-731.	0.8	7
23	Experimental investigation of near-limit gaseous detonations in small diameter spiral tubing. Proceedings of the Combustion Institute, 2019, 37, 3555-3563.	3.9	19
24	Experimental study and numerical simulation of the corner turning of TATB based and CL-20 based polymer bonded explosives. Combustion, Explosion and Shock Waves, 2016, 52, 719-726.	0.8	6
25	Electrostatic Hazards Assessment of Nitramine Explosives: Resistivity, Charge Accumulation and Discharge Sensitivity. Central European Journal of Energetic Materials, 2016, 13, 755-769.	0.4	13
26	Measurement of Afterburning Effect of Underoxidized Explosives by Underwater Explosion Method. Journal of Energetic Materials, 2015, 33, 116-124.	2.0	2
27	Experimental study and numerical simulation of the afterburning of TNT by underwater explosion method. Shock Waves, 2014, 24, 619-624.	1.9	4