

Jun Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

926
citations

19
h-index

28
g-index

52
ext. papers

1,173
ext. citations

5.3
avg, IF

4.28
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 49 | Heat transfer and entropy generation analyses in a channel partially filled with porous media using local thermal non-equilibrium model. <i>Energy</i> , 2015 , 82, 922-938 | 7.9 | 76 |
| 48 | Facile, continuous and large-scale synthesis of CL-20/HMX nano co-crystals with high-performance by ultrasonic spray-assisted electrostatic adsorption method. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19969-19974 | 13 | 64 |
| 47 | Design and fabrication of energetic superlattice like-PTFE/Al with superior performance and application in functional micro-initiator. <i>Nano Energy</i> , 2015 , 12, 597-605 | 17.1 | 52 |
| 46 | Preparation and Characterization of Insensitive HMX/Graphene Oxide Composites. <i>Propellants, Explosives, Pyrotechnics</i> , 2013 , 38, 798-804 | 1.7 | 51 |
| 45 | Core-Shell Al-Polytetrafluoroethylene (PTFE) Configurations to Enhance Reaction Kinetics and Energy Performance for Nanoenergetic Materials. <i>Chemistry - A European Journal</i> , 2016 , 22, 279-84 | 4.8 | 50 |
| 44 | A promising strategy to obtain high energy output and combustion properties by self-activation of nano-Al. <i>Combustion and Flame</i> , 2019 , 204, 220-226 | 5.3 | 42 |
| 43 | Highly space-confined ammonium perchlorate in three-dimensional hierarchically ordered porous carbon with improved thermal decomposition properties. <i>Applied Surface Science</i> , 2018 , 457, 508-515 | 6.7 | 40 |
| 42 | Reaction mechanism of Al-CuO nanothermites with addition of multilayer graphene. <i>Thermochimica Acta</i> , 2018 , 666, 60-65 | 2.9 | 39 |
| 41 | Effects of nano-Ag on the combustion process of Al/CuO metastable intermolecular composite. <i>Applied Thermal Engineering</i> , 2014 , 62, 732-737 | 5.8 | 36 |
| 40 | Fast deflagration to detonation transition of energetic material based on a quasi-core/shell structured nanothermite composite. <i>Composites Science and Technology</i> , 2015 , 107, 113-119 | 8.6 | 36 |
| 39 | Pressure loss and compensation in the combustion process of Al/CuO nanoenergetics on a microheater chip. <i>Combustion and Flame</i> , 2014 , 161, 2975-2981 | 5.3 | 29 |
| 38 | Enhanced Thermal Decomposition Properties of CL-20 through Space-Confining in Three-Dimensional Hierarchically Ordered Porous Carbon. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10684-10691 | 9.5 | 28 |
| 37 | Formulation and performance of functional sub-micro CL-20-based energetic polymer composite ink for direct-write assembly. <i>RSC Advances</i> , 2016 , 6, 112325-112331 | 3.7 | 26 |
| 36 | Microstructured Al/Fe ₂ O ₃ /Nitrocellulose Energetic Fibers Realized by Electrospinning. <i>Journal of Energetic Materials</i> , 2014 , 32, 50-59 | 1.6 | 25 |
| 35 | Pyridinic-nitrogen highly doped nanotubular carbon arrays grown on a carbon cloth for high-performance and flexible supercapacitors. <i>Nanoscale</i> , 2018 , 10, 3981-3989 | 7.7 | 22 |
| 34 | Fluorocarbon thin film with superhydrophobic property prepared by pyrolysis of hexafluoropropylene oxide. <i>Applied Surface Science</i> , 2012 , 258, 9782-9785 | 6.7 | 22 |
| 33 | Novel Co ₃ O ₄ nanocrystalline chain material as a high performance gas sensor at room temperature. <i>Journal of Alloys and Compounds</i> , 2018 , 768, 190-197 | 5.7 | 21 |

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|----|--|------|----|
| 32 | Controlled synthesis of Co ₃ O ₄ single-crystalline nanofilms enclosed by (111) facets and their exceptional activity for the catalytic decomposition of ammonium perchlorate. <i>CrystEngComm</i> , 2014 , 16, 8673-8677 | 3.3 | 21 |
| 31 | Solid-Solid phase transition study of ECL-20/binder composites. <i>RSC Advances</i> , 2016 , 6, 859-865 | 3.7 | 19 |
| 30 | Enhanced water resistance and energy performance of core-shell aluminum nanoparticles via in situ grafting of energetic glycidyl azide polymer. <i>Journal of Materials Science</i> , 2018 , 53, 12091-12102 | 4.3 | 17 |
| 29 | Facile synthesis and lithium storage performance of hollow CuO microspheres. <i>Materials Letters</i> , 2014 , 129, 5-7 | 3.3 | 17 |
| 28 | A novel preparation method for drug nanocrystals and characterization by ultrasonic spray-assisted electrostatic adsorption. <i>International Journal of Nanomedicine</i> , 2013 , 8, 3927-35 | 7.3 | 16 |
| 27 | An effective way to enhance energy output and combustion characteristics of Al/PTFE. <i>Combustion and Flame</i> , 2020 , 214, 419-425 | 5.3 | 14 |
| 26 | Controlled synthesis of porous Co ₃ O ₄ hybrid nanosheet arrays and their application in lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 30573-30578 | 3.7 | 14 |
| 25 | Construct 3D porous hollow Co ₃ O ₄ micro-sphere: A potential oxidizer of nano-energetic materials with superior reactivity. <i>Applied Surface Science</i> , 2018 , 442, 767-772 | 6.7 | 13 |
| 24 | Improvement of adhesion strength and scratch resistance of fluorocarbon thin films by cryogenic treatment. <i>Applied Surface Science</i> , 2014 , 288, 44-50 | 6.7 | 13 |
| 23 | Self-assembly of TATB 3D architectures via micro-channel crystallization and a formation mechanism. <i>CrystEngComm</i> , 2016 , 18, 1953-1957 | 3.3 | 12 |
| 22 | Facile fabrication of porous CL-20 for low sensitivity high explosives. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23540-3 | 3.6 | 12 |
| 21 | Temperature distribution, local and total entropy generation analyses in asymmetric cooling composite geometries with multiple nonlinearities: Effect of imperfect thermal contact. <i>Energy</i> , 2014 , 78, 218-234 | 7.9 | 11 |
| 20 | A free-standing laser energy converter based on energetic graphene oxide for enhanced photothermal ignition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13761-13768 | 13 | 10 |
| 19 | The solid phase thermal decomposition and nanocrystal effect of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) via ReaxFF large-scale molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17240-17252 | 3.6 | 9 |
| 18 | Design and Synthesis of Energetic Materials towards Versatile Applications by N-trinitromethyl and N-nitromethyl Functionalization of Nitroimidazoles. <i>ChemPlusChem</i> , 2018 , 83, 787-796 | 2.8 | 8 |
| 17 | Performance optimization of core-shell HMX@(Al@GAP) aluminized explosives. <i>Chemical Engineering Journal</i> , 2021 , 407, 126360 | 14.7 | 8 |
| 16 | Graphite fluoride as a new oxidizer to construct nano-Al based reactive material and its combustion performance. <i>Combustion and Flame</i> , 2021 , 229, 111393 | 5.3 | 7 |
| 15 | Large-Scale Synthesis of a Porous Co ₃ O ₄ Nanostructure and Its Application in Metastable Intermolecular Composites. <i>Propellants, Explosives, Pyrotechnics</i> , 2015 , 40, 514-517 | 1.7 | 6 |

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| 14 | Shock Initiation of Nano-TATB Explosives under Short-Duration Pulses. <i>Propellants, Explosives, Pyrotechnics</i> , 2019 , 44, 138-143 | 1.7 | 5 |
| 13 | Highly Reactive PTFE/Mg Nanolaminates and Its Combustion Performances. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900113 | 4.6 | 5 |
| 12 | Facile Preparation of Self-Sensitized FOX-7 with Uniform Pores by Heat Treatment. <i>Propellants, Explosives, Pyrotechnics</i> , 2014 , 39, 260-266 | 1.7 | 5 |
| 11 | Preparation of Nano-DAAF Explosive with Improved Initiation Sensitivity. <i>Propellants, Explosives, Pyrotechnics</i> , 2018 , 43, 1060-1064 | 1.7 | 5 |
| 10 | Stabilization of the energetic Al powder through uniform and controlled surface coating for promoting its energy output. <i>Surface and Coatings Technology</i> , 2020 , 389, 125603 | 4.4 | 4 |
| 9 | Fabrication of gradient structured HMX/Al and its combustion performance. <i>Combustion and Flame</i> , 2021 , 226, 222-228 | 5.3 | 4 |
| 8 | Self-assembly of 3D porous architectures from energetic nanoparticles for enhanced energetic performances. <i>CrystEngComm</i> , 2018 , 20, 6387-6393 | 3.3 | 3 |
| 7 | Effect of microstructure on short pulse duration shock initiation of TATB and initial response mechanism. <i>Defence Technology</i> , 2020 , 16, 374-380 | 3 | 3 |
| 6 | Synthesis of 1-Amino-2,4-Dinitroimidazole Optimized by Online Infrared Spectroscopy and its Energetic Properties. <i>ChemPlusChem</i> , 2017 , 82, 287-294 | 2.8 | 2 |
| 5 | One-step and low-temperature synthesis of carbon nanotubes with no post treatment and high purity. <i>RSC Advances</i> , 2015 , 5, 78917-78919 | 3.7 | 1 |
| 4 | Combustion synthesis and formation mechanism of silver nanoparticles. <i>International Journal of Materials Research</i> , 2018 , 109, 751-755 | 0.5 | 1 |
| 3 | CuO/NiO core/shell nanowire arrays directly synthesised on copper foam with promising superhydrophobic property. <i>Micro and Nano Letters</i> , 2014 , 9, 219-221 | 0.9 | 1 |
| 2 | Bio-inspired nacre-like fluorographene/Al energetic paper with superior chemical reactivity and mechanical properties. <i>Chemical Engineering Journal</i> , 2022 , 441, 136014 | 14.7 | 1 |
| 1 | Initial decomposition step and bimolecular hydrogen transfer of 3, 3?-diamino-4, 4?-azoxyfurazan under high pressure and high temperature. <i>Combustion and Flame</i> , 2022 , 240, 111981 | 5.3 | |