Joseph P Hooper

List of Publications by Year
in descending order

35 papers	712 citations	567281 15 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	991 citing authors

#	Article	IF	Citations
1	Well-balanced energetic cocrystals of H5IO6/HIO3 achieved by a small acid-base gap. Chemical Engineering Journal, 2021, 405, 126623.	12.7	31
2	Energy Release and Fragmentation of Brittle Aluminum Reactive Material Cases. Propellants, Explosives, Pyrotechnics, 2021, 46, 1324-1333.	1.6	3
3	Insight into the role of interfaces on mechanical properties of low-porosity Al/Ni compacts: Comparison of experiment and simulation. Journal of Applied Physics, 2021, 130, .	2.5	2
4	Templated Growth of a Spin-Frustrated Cluster Fragment of MnBr2 in a Metalâ€“Organic Framework. Inorganic Chemistry, 2021, 60, 16103-16110.	4.0	0
5	Superior High-Energy-Density Biocidal Agent Achieved with a 3D Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 40541-40547.	8.0	21
6	Reactive fragment materials made from an aluminumâ€“silicon eutectic powder. Journal of Applied Physics, 2020, 128, .	2.5	9
7	1,3,5-Triiodo-2,4,6-trinitrobenzene (TITNB) from benzene: Balancing performance and high thermal stability of functional energetic materials. Chemical Engineering Journal, 2019, 378, 122119.	12.7	18
8	The effect of annealing on the impact fragmentation of a pure aluminum reactive material. Journal of Applied Physics, 2019, 125, .	2.5	7
9	Activation of Câ€“H, Nâ€“H, and Oâ€“H Bonds via Proton-Coupled Electron Transfer to a Mn(III) Complex of Redox-Noninnocent Octaazacyclotetradecadiene, a Catenated-Nitrogen Macrocyclic Ligand. Journal of the American Chemical Society, 2019, 141, 5699-5709.	13.7	11
10	Functional energetic biocides by coupling of energetic and biocidal polyiodo building blocks. Chemical Engineering Journal, 2019, 368, 244-251.	12.7	16
11	The role of reducing agents in the nucleation and growth of Al metalloid clusters: Ab initio molecular dynamics study. AIP Conference Proceedings, 2018, , .	0.4	0
12	Control of Biohazards: A High Performance Energetic Polycyclized Iodine-Containing Biocide. Inorganic Chemistry, 2018, 57, 8673-8680.	4.0	23
13	Mechanistic Studies of [AlCp*]4Combustion. Inorganic Chemistry, 2018, 57, 8181-8188.	4.0	4
14	Impact fragmentation of a brittle metal compact. Journal of Applied Physics, 2018, 123, .	2.5	10
15	Topology and Equilibrium Analysis of the Monovalent Aluminum Compound Al₄Cp*^{Ph}₄. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 454-464.	1.2	0
16	Modeling the stability and growth of metalloid clusters for energetic materials. AIP Conference Proceedings, 2017, , .	0.4	1
17	The Role of Ligand Steric Bulk in New Monovalent Aluminum Compounds. Journal of Physical Chemistry A, 2017, 121, 4678-4687.	2.5	10
18	Energy and Biocides Storage Compounds: Synthesis and Characterization of Energetic Bridged Bis(triiodoazoles). Inorganic Chemistry, 2017, 56, 13547-13552.	4.0	23

#	Article	IF	Citations
19	New Generation Agent Defeat Weapons: Energetic N , N â€²â€Ethyleneâ€Bridged Polyiodoazoles. Chemistry - A European Journal, 2017, 23, 16753-16757.	3.3	22
20	Growth of metalloid aluminum clusters on graphene vacancies. Journal of Chemical Physics, 2016, 144, 024703.	3.0	3
21	Iodine-Rich Imidazolium Iodate and Periodate Salts: En Route to Single-Based Biocidal Agents. Inorganic Chemistry, 2016, 55, 12844-12850.	4.0	27
22	Mono- and diiodo-1,2,3-triazoles and their mono nitro derivatives. Dalton Transactions, 2016, 45, 9684-9688.	3.3	20
23	Elucidation of the Fe(III) Gallate Structure in Historical Iron Gall Ink. Analytical Chemistry, 2016, 88, 5152-5158.	6.5	70
24	Synthesis, Structure, and Properties of Al(^Rbpy)₃ Complexes (R = t-Bu,) Tj ETQq0 0 0 rgBT /Overlock 10	4.0	14
25	Tunable Visible and Near Infrared Photoswitches. Journal of the American Chemical Society, 2016, 138, 13960-13966.	13.7	210
26	Electronic Structure of Manganese Complexes of the Redoxâ€Nonâ€innocent Tetrazene Ligand and Evidence for the Metalâ€Azide/Imido Cycloaddition Intermediate. Chemistry - A European Journal, 2016, 22, 10548-10557.	3.3	14
27	Oxidation of ligand-protected aluminum clusters: An ab initio molecular dynamics study. Journal of Chemical Physics, 2014, 140, 104313.	3.0	10
28	Ab initio metadynamics simulations of oxygen/ligand interactions in organoaluminum clusters. Journal of Chemical Physics, 2014, 141, 144304.	3.0	11
29	High strainâ€rate response of spiropyran mechanophores in PMMA. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1347-1356.	2.1	36
30	Low temperature synthesis of carbon nanotube-reinforced aluminum metal composite powders using cryogenic milling. Journal of Materials Research, 2014, 29, 2644-2656.	2.6	17
31	Predicting Solubility of Military, Homemade, and Green Explosives in Pure and Saline Water using COSMO-RS. Propellants, Explosives, Pyrotechnics, 2014, 39, 79-89.	1.6	7
32	High-velocity Impact Fragmentation of Brittle, Granular Aluminum Spheres. Procedia Engineering, 2013, 58, 663-671.	1.2	4
33	Predicting Temperature-Dependent Solid Vapor Pressures of Explosives and Related Compounds Using a Quantum Mechanical Continuum Solvation Model. Journal of Physical Chemistry A, 2013, 117, 2035-2043.	2.5	15
34	Impact fragmentation of aluminum reactive materials. Journal of Applied Physics, 2012, 112, .	2.5	25
35	Structure, Thermodynamics, and Energy Content of Aluminumâ€“Cyclopentadienyl Clusters. Journal of Physical Chemistry A, 2011, 115, 14100-14109.	2.5	18