Amanda L Higginbotham

List of Publications by Year
in descending order

24 papers	5,105 citations	840585 11 h-index	610775 24 g-index
24 all docs	24 docs citations	24 times ranked	7966 citing authors

#	Article	IF	Citations
1	Brazilian disk compression testing of plastic-bonded idoxuridine mock explosive. Journal of Energetic Materials, 2023, 41, 319-350.	1.0	3
2	Novel method to control explosive shock sensitivity: A mesoscale study to understand the effect of thermally expandable microsphere (TEM) inclusions in high explosives (HE) microstructure. Journal of Applied Physics, 2022, 131, 175105.	1.1	6
3	Computing continuum-level explosive shock and detonation response over a wide pressure range from microstructural details. Combustion and Flame, 2021, 231, 111470.	2.8	12
4	Composite binder, processing, and particle size effects on mechanical properties of non-hazardous high explosive surrogates. Powder Technology, 2021, 391, 442-449.	2.1	7
5	A Solubility Comparison of Cyclotetramethylenetetranitramine (HMX) and Potential Mock-HMX Candidates in Solvents Relevant to Slurry Formulating Polymer-Bonded Materials. Journal of Solution Chemistry, 2020, 49, 875-884.	0.6	1
6	Novel PBX formulations containing thermally-expandable microspheres for on-demand control of explosive behavior. AIP Conference Proceedings, 2020, , .	0.3	1
7	Microcomputed X-Ray Tomographic Imaging and Image Processing for Microstructural Characterization of Explosives. Materials, 2020, 13, 4517.	1.3	14
8	The Thermal and Microstructural Effect of Plasticizing HMX-Nitrocellulose Composites. Journal of Energetic Materials, 2018, 36, 13-28.	1.0	12
9	Development of inert density mock materials for HMX. Journal of Energetic Materials, 2018, 36, 253-265.	1.0	17
10	Electromagnetic enhanced ignition. Combustion and Flame, 2017, 181, 16-21.	2.8	5
11	Using Neutron Diffraction to Investigate Texture Evolution During Consolidation of Deuterated Triaminotrinitrobenzene (d-TATB) Explosive Powder. Crystals, 2017, 7, 138.	1.0	13
12	Detecting the Biopolymer Behavior of Graphene Nanoribbons in Aqueous Solution. Scientific Reports, 2016, 6, 31174.	1.6	6
13	Micro to mesoscale temperature gradients in microwave heated energetic materials. Journal of Applied Physics, 2014, 116, .	1.1	7
14	Microwave-Induced Heating of HMX for Decomposition Kinetic Analysis. Materials Research Society Symposia Proceedings, 2012, 1405, .	0.1	5
15	Spontaneous high-concentration dispersions and liquid crystals of graphene. Nature Nanotechnology, 2010, 5, 406-411.	15.6	532
16	Diameter-Dependent Solubility of Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 3063-3072.	7.3	65
17	Lower-Defect Graphene Oxide Nanoribbons from Multiwalled Carbon Nanotubes. ACS Nano, 2010, 4, 2059-2069.	7.3	539
18	Electronic transport in monolayer graphene nanoribbons produced by chemical unzipping of carbon nanotubes. Applied Physics Letters, 2009, 95, .	1.5	74

#	Article	IF	Citations
19	Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons. Nature, 2009, 458, 872-876.	13.7	3,246
20	Graphite Oxide Flame-Retardant Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2009, 1, 2256-2261.	4.0	245
21	Covalent Functionalization of Surfactant-Wrapped Graphene Nanoribbons. Chemistry of Materials, 2009, 21, 5284-5291.	3.2	148
22	Carbon nanotube composite curing through absorption of microwave radiation. Composites Science and Technology, 2008, 68, 3087-3092.	3.8	54
23	Tunable Permittivity of Polymer Composites through Incremental Blending of Raw and Functionalized Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 17751-17754.	1.5	14
24	Highly Functionalized and Soluble Multiwalled Carbon Nanotubes by Reductive Alkylation and Arylation:Â The Billups Reaction. Chemistry of Materials, 2006, 18, 4658-4661.	3.2	79