

# Amanda L Higginbotham

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons. <i>Nature</i> , 2009, 458, 872-876.	13.7	3,246
2	Lower-Defect Graphene Oxide Nanoribbons from Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 2059-2069.	7.3	539
3	Spontaneous high-concentration dispersions and liquid crystals of graphene. <i>Nature Nanotechnology</i> , 2010, 5, 406-411.	15.6	532
4	Graphite Oxide Flame-Retardant Polymer Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2256-2261.	4.0	245
5	Covalent Functionalization of Surfactant-Wrapped Graphene Nanoribbons. <i>Chemistry of Materials</i> , 2009, 21, 5284-5291.	3.2	148
6	Highly Functionalized and Soluble Multiwalled Carbon Nanotubes by Reductive Alkylation and Arylation: The Billups Reaction. <i>Chemistry of Materials</i> , 2006, 18, 4658-4661.	3.2	79
7	Electronic transport in monolayer graphene nanoribbons produced by chemical unzipping of carbon nanotubes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	74
8	Diameter-Dependent Solubility of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 3063-3072.	7.3	65
9	Carbon nanotube composite curing through absorption of microwave radiation. <i>Composites Science and Technology</i> , 2008, 68, 3087-3092.	3.8	54
10	Development of inert density mock materials for HMX. <i>Journal of Energetic Materials</i> , 2018, 36, 253-265.	1.0	17
11	Tunable Permittivity of Polymer Composites through Incremental Blending of Raw and Functionalized Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17751-17754.	1.5	14
12	Microcomputed X-Ray Tomographic Imaging and Image Processing for Microstructural Characterization of Explosives. <i>Materials</i> , 2020, 13, 4517.	1.3	14
13	Using Neutron Diffraction to Investigate Texture Evolution During Consolidation of Deuterated Triaminotrinitrobenzene (d-TATB) Explosive Powder. <i>Crystals</i> , 2017, 7, 138.	1.0	13
14	The Thermal and Microstructural Effect of Plasticizing HMX-Nitrocellulose Composites. <i>Journal of Energetic Materials</i> , 2018, 36, 13-28.	1.0	12
15	Computing continuum-level explosive shock and detonation response over a wide pressure range from microstructural details. <i>Combustion and Flame</i> , 2021, 231, 111470.	2.8	12
16	Micro to mesoscale temperature gradients in microwave heated energetic materials. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	7
17	Composite binder, processing, and particle size effects on mechanical properties of non-hazardous high explosive surrogates. <i>Powder Technology</i> , 2021, 391, 442-449.	2.1	7
18	Detecting the Biopolymer Behavior of Graphene Nanoribbons in Aqueous Solution. <i>Scientific Reports</i> , 2016, 6, 31174.	1.6	6

#	ARTICLE	IF	CITATIONS
19	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
20	Microwave-Induced Heating of HMX for Decomposition Kinetic Analysis. Materials Research Society Symposia Proceedings, 2012, 1405, .	0.1	5
21	Electromagnetic enhanced ignition. Combustion and Flame, 2017, 181, 16-21.	2.8	5
22	Brazilian disk compression testing of plastic-bonded idoxuridine mock explosive. Journal of Energetic Materials, 2023, 41, 319-350.	1.0	3
23	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
24	Novel PBX formulations containing thermally-expandable microspheres for on-demand control of explosive behavior. AIP Conference Proceedings, 2020, , .	0.3	1