Miles C Rehwoldt

List of Publications by Year
in descending order

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19 papers	1,543 citations	687335 13 h-index	839512 18 g-index
19 all docs	19 docs citations	19 times ranked	1925 citing authors

#	Article	IF	Citations
1	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. Science, 2018, 359, 1489-1494.	12.6	1,065
2	Comparison study of the ignition and combustion characteristics of directly-written Al/PVDF, Al/Viton and Al/THV composites. Combustion and Flame, 2019, 201, 181-186.	5.2	127
3	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. Combustion and Flame, 2020, 211, 260-269.	5.2	39
4	Combustion of 3D printed 90Âwt% loading reinforced nanothermite. Combustion and Flame, 2020, 215, 86-92.	5.2	39
5	Titanium enhanced ignition and combustion of Al/I2O5 mesoparticle composites. Combustion and Flame, 2020, 212, 245-251.	5.2	37
6	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. ACS Applied Polymer Materials, 2019, 1, 982-989.	4.4	36
7	Probing the Reaction Zone of Nanolaminates at â¼Î¼s Time and â¼Î¼m Spatial Resolution. Journal of Physical Chemistry C, 2020, 124, 13679-13687.	3.1	32
8	Ignition of Nanoscale Titanium/Potassium Perchlorate Pyrotechnic Powder: Reaction Mechanism Study. Journal of Physical Chemistry C, 2018, 122, 10792-10800.	3.1	29
9	Experimental observation of the heat transfer mechanisms that drive propagation in additively manufactured energetic materials. Combustion and Flame, 2020, 215, 417-424.	5.2	23
10	Tuning the reactivity and energy release rate of I2O5 based ternary thermite systems. Combustion and Flame, 2021, 228, 210-217.	5.2	23
11	Carbon Fibers Enhance the Propagation of High Loading Nanothermites: In Situ Observation of Microscopic Combustion. ACS Applied Materials & Interfaces, 2021, 13, 30504-30511.	8.0	18
12	High-Temperature Interactions of Metal Oxides and a PVDF Binder. ACS Applied Materials & Interfaces, 2022, 14, 8938-8946.	8.0	17
13	Ignition and Combustion Characterization of Ca(IO₃)₂â€based Pyrotechnic Composites with B, Al, and Ti. Propellants, Explosives, Pyrotechnics, 2018, 43, 977-985.	1.6	13
14	Why does adding a poor thermal conductor increase propagation rate in solid propellants?. Applied Physics Letters, 2019, 115, .	3.3	11
15	Mechanism of microwave-initiated ignition of sensitized energetic nanocomposites. Chemical Engineering Journal, 2021, 415, 128657.	12.7	10
16	Spatially focused microwave ignition of metallized energetic materials. Journal of Applied Physics, 2020, 127, .	2.5	9
17	Numerically evaluating energetic composite flame propagation with thermally conductive, high aspect ratio fillers. Chemical Engineering Science, 2021, 229, 116087.	3.8	8
18	In-operando thermophysical properties and kinetics measurements of Al-Zr-C composites. Combustion and Flame, 2021, 228, 250-258.	5.2	6

#	Article	IF	Citations
19	Engineering agglomeration and propagation of high Al/CuO nanothermite loading composites with reactive and non-reactive fibers. , 2022, , .		1