

Michael R Zachariah

List of Publications by Year in descending order

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277
papers

13,569
citations

22548

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all docs

279
docs citations

279
times ranked

14783
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior reactivity of ferroelectric Bi ₂ WO ₆ /aluminum metastable intermolecular composite. Chemical Engineering Science, 2022, 247, 116898.	1.9	9
2	Energetic characteristics of hydrogenated amorphous silicon nanoparticles. Chemical Engineering Journal, 2022, 430, 133140.	6.6	13
3	Flame stand-off effects on propagation of 3D printed 94Åwt% nanosized pyrolants loading composites. Chemical Engineering Journal, 2022, 434, 134487.	6.6	6
4	Engineering agglomeration and propagation of high Al/CuO nanothermite loading composites with reactive and non-reactive fibers. , 2022, , .		1
5	Influence of titanium addition on performance of boron-based thermites. Chemical Engineering Journal, 2022, 438, 134837.	6.6	14
6	High-Temperature Interactions of Metal Oxides and a PVDF Binder. ACS Applied Materials & Interfaces, 2022, 14, 8938-8946.	4.0	17
7	Microwave Stimulation of Energetic Al-Based Nanoparticle Composites for Ignition Modulation. ACS Applied Nano Materials, 2022, 5, 2460-2469.	2.4	13
8	Engineered Porosity-Induced Burn Rate Enhancement in Dense Al/CuO Nanothermites. ACS Applied Energy Materials, 2022, 5, 3189-3198.	2.5	8
9	Vaporization-Controlled Energy Release Mechanisms Underlying the Exceptional Reactivity of Magnesium Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 17164-17174.	4.0	7
10	Rerouting Pathways of Solid-State Ammonia Borane Energy Release. Journal of Physical Chemistry C, 2022, 126, 48-57.	1.5	9
11	Direct Imaging and Simulation of the Interface Reaction of Metal/Metal Oxide Nanoparticle Laminates. Journal of Physical Chemistry C, 2022, 126, 8684-8691.	1.5	9
12	Effect of alkali metal perchlorate and iodate type on boron ignition: The role of oxidizer phase change. Chemical Engineering Journal, 2022, 446, 136786.	6.6	3
13	Ignition and combustion of Perfluoroalkyl-functionalized aluminum nanoparticles and nanothermite. Combustion and Flame, 2022, 242, 112170.	2.8	18
14	Inducing Oxygen Vacancies to Modulate Ignition Threshold of Nanothermites. Energy & Fuels, 2022, 36, 5878-5884.	2.5	4
15	Improved accuracy for calibrated mass distribution measurements of bimetallic nanoparticles. Journal of Aerosol Science, 2022, 165, 106031.	1.8	1
16	In-Situ Thermochemical Shock-Induced Stress at the Metal/Oxide Interface Enhances Reactivity of Aluminum Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 26782-26790.	4.0	13
17	Unzipping polymers significantly enhance energy flux of aluminized composites. Combustion and Flame, 2022, 244, 112242.	2.8	6
18	Ignition and Combustion Characteristics of Al/RDX/NC Nanostructured Microparticles. Combustion Science and Technology, 2021, 193, 2259-2275.	1.2	8

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19	Numerically evaluating energetic composite flame propagation with thermally conductive, high aspect ratio fillers. <i>Chemical Engineering Science</i> , 2021, 229, 116087.	1.9	8
20	Revealing High-Temperature Reduction Dynamics of High-Entropy Alloy Nanoparticles <i>via In Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 1742-1748.	4.5	26
21	Elucidating the dominant mechanisms in burn rate increase of thermite nanolaminates incorporating nanoparticle inclusions. <i>Nanotechnology</i> , 2021, 32, 215401.	1.3	4
22	Magnetic-Field Directed Vapor-Phase Assembly of Low Fractal Dimension Metal Nanostructures: Experiment and Theory. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4085-4091.	2.1	8
23	Carbon Fibers Enhance the Propagation of High Loading Nanothermites: In Situ Observation of Microscopic Combustion. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30504-30511.	4.0	18
24	Modelling and simulation of field directed linear assembly of aerosol particles. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 195-204.	5.0	3
25	In-operando thermophysical properties and kinetics measurements of Al-Zr-C composites. <i>Combustion and Flame</i> , 2021, 228, 250-258.	2.8	6
26	Tuning the reactivity and energy release rate of I2O5 based ternary thermite systems. <i>Combustion and Flame</i> , 2021, 228, 210-217.	2.8	23
27	3D Printed Graphene-Based 3000 K Probe. <i>Advanced Functional Materials</i> , 2021, 31, 2102994.	7.8	18
28	Mechanism of microwave-initiated ignition of sensitized energetic nanocomposites. <i>Chemical Engineering Journal</i> , 2021, 415, 128657.	6.6	10
29	Connecting agglomeration and burn rate in a thermite reaction: Role of oxidizer morphology. <i>Combustion and Flame</i> , 2021, 231, 111492.	2.8	29
30	Silicon Nanoparticles for the Reactivity and Energetic Density Enhancement of Energetic-Biocidal Mesoparticle Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 458-467.	4.0	21
31	Understanding Dimethyl Methylphosphonate Adsorption and Decomposition on Mesoporous CeO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54597-54609.	4.0	16
32	Droplet combustion of kerosene augmented by stabilized nanoaluminum/oxidizer composite mesoparticles. <i>Combustion and Flame</i> , 2020, 211, 1-7.	2.8	12
33	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. <i>Combustion and Flame</i> , 2020, 211, 260-269.	2.8	39
34	Quantifying protein aggregation kinetics using electrospray differential mobility analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112845.	1.4	7
35	Titanium enhanced ignition and combustion of Al/I2O5 mesoparticle composites. <i>Combustion and Flame</i> , 2020, 212, 245-251.	2.8	37
36	Continuous 2000 K droplet-to-particle synthesis. <i>Materials Today</i> , 2020, 35, 106-114.	8.3	43

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37	<i>In Situ</i> Oxidation Studies of High-Entropy Alloy Nanoparticles. <i>ACS Nano</i> , 2020, 14, 15131-15143.	7.3	71
38	High-Temperature Pulse Method for Nanoparticle Redispersion. <i>Journal of the American Chemical Society</i> , 2020, 142, 17364-17371.	6.6	28
39	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. <i>Advanced Energy Materials</i> , 2020, 10, 2001119.	10.2	39
40	Probing the Reaction Zone of Nanolaminates at $\hat{\sim}1/4\hat{\sim}1/4$ s Time and $\hat{\sim}1/4\hat{\sim}1/4$ m Spatial Resolution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13679-13687.	1.5	32
41	Rapid Laser Pulse Synthesis of Supported Metal Nanoclusters with Kinetically Tunable Size and Surface Density for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 2959-2968.	2.4	6
42	Tailoring energy release of nano-Si based thermites via incorporation of Ti nanoparticles. <i>Chemical Engineering Journal</i> , 2020, 396, 124559.	6.6	18
43	Aerosol Synthesis of High Entropy Alloy Nanoparticles. <i>Langmuir</i> , 2020, 36, 1985-1992.	1.6	74
44	Experimental observation of the heat transfer mechanisms that drive propagation in additively manufactured energetic materials. <i>Combustion and Flame</i> , 2020, 215, 417-424.	2.8	23
45	Combustion of 3D printed 90Åwt% loading reinforced nanothermite. <i>Combustion and Flame</i> , 2020, 215, 86-92.	2.8	39
46	Synergistically Chemical and Thermal Coupling between Graphene Oxide and Graphene Fluoride for Enhancing Aluminum Combustion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7451-7458.	4.0	52
47	Spatially focused microwave ignition of metallized energetic materials. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	9
48	Microwave absorption by small dielectric and semi-conductor coated metal particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 247, 106938.	1.1	14
49	Rapid, high-temperature microwave soldering toward a high-performance cathode/electrolyte interface. <i>Energy Storage Materials</i> , 2020, 30, 385-391.	9.5	51
50	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019, 14, 851-857.	15.6	278
51	In-operando high-speed microscopy and thermometry of reaction propagation and sintering in a nanocomposite. <i>Nature Communications</i> , 2019, 10, 3032.	5.8	47
52	Ignition Threshold of Perovskite-Based Oxides for Solid Fuel Oxidation from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17644-17649.	1.5	2
53	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29773-29779.	4.0	28
54	Synthesis of Metal Oxide Nanoparticles by Rapid, High-ÅTemperature 3D Microwave Heating. <i>Advanced Functional Materials</i> , 2019, 29, 1904282.	7.8	65

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55	Sarin Decomposition on Pristine and Hydroxylated ZnO: Quantum-Chemical Modeling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26432-26441.	1.5	16
56	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. <i>Matter</i> , 2019, 1, 759-769.	5.0	58
57	Why does adding a poor thermal conductor increase propagation rate in solid propellants?. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
58	Silver ferrite: a superior oxidizer for thermite-driven biocidal nanoenergetic materials. <i>RSC Advances</i> , 2019, 9, 1831-1840.	1.7	13
59	Thermal Shock Synthesis of Metal Nanoclusters within On-the-Fly Graphene Particles. <i>Langmuir</i> , 2019, 35, 3413-3420.	1.6	9
60	Extremely stable antimony-carbon composite anodes for potassium-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 615-623.	15.6	358
61	Vapor-Phase Strategy to Pillaring of Two-Dimensional Zeolite. <i>Journal of the American Chemical Society</i> , 2019, 141, 8712-8716.	6.6	27
62	Ultrafast, scalable laser photothermal synthesis and writing of uniformly dispersed metal nanoclusters in polymer films. <i>Nanoscale</i> , 2019, 11, 13354-13365.	2.8	6
63	Controlling the energetic characteristics of micro energy storage device by in situ deposition Al/MoO ₃ nanolaminates with varying internal structure. <i>Chemical Engineering Journal</i> , 2019, 373, 345-354.	6.6	41
64	Direct Writing of a 90 wt% Particle Loading Nanothermite. <i>Advanced Materials</i> , 2019, 31, e1806575.	11.1	63
65	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. <i>ACS Applied Polymer Materials</i> , 2019, 1, 982-989.	2.0	36
66	Fixed Feed Temperature-Programmed Modulation—A Quantitative Method To Obtain Thermophysical Parameters: Application to Chemical Warfare Agent Adsorbents. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12694-12705.	1.5	2
67	Pre-stressing aluminum nanoparticles as a strategy to enhance reactivity of nanothermite composites. <i>Combustion and Flame</i> , 2019, 205, 33-40.	2.8	35
68	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019, 12, 2259-2267.	5.8	85
69	Fast quantification of nanorod geometry by DMA-spICP-MS. <i>Analyst, The</i> , 2019, 144, 2275-2283.	1.7	14
70	Transient, <i>in situ</i> synthesis of ultrafine ruthenium nanoparticles for a high-rate Li-CO ₂ battery. <i>Energy and Environmental Science</i> , 2019, 12, 1100-1107.	15.6	129
71	Triisobutylaluminum additive for liquid hydrocarbon burn enhancement. <i>Combustion and Flame</i> , 2019, 200, 53-59.	2.8	0
72	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. <i>ACS Catalysis</i> , 2019, 9, 902-911.	5.5	54

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73	Comparison study of the ignition and combustion characteristics of directly-written Al/PVDF, Al/Viton and Al/THV composites. <i>Combustion and Flame</i> , 2019, 201, 181-186.	2.8	127
74	On the promotion of high temperature AP decomposition with silica mesoparticles. <i>Combustion and Flame</i> , 2019, 200, 296-302.	2.8	22
75	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. <i>Combustion and Flame</i> , 2018, 191, 335-342.	2.8	28
76	Analytical expression for the rotational friction coefficient of DLCA aggregates over the entire Knudsen regime. <i>Aerosol Science and Technology</i> , 2018, 52, 209-221.	1.5	5
77	The effect of electric-field-induced alignment on the electrical mobility of fractal aggregates. <i>Aerosol Science and Technology</i> , 2018, 52, 524-535.	1.5	6
78	Carbon addition lowers initiation and iodine release temperatures from iodine oxide-based biocidal energetic materials. <i>Carbon</i> , 2018, 130, 410-415.	5.4	19
79	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. <i>Langmuir</i> , 2018, 34, 585-594.	1.6	17
80	Ignition of Nanoscale Titanium/Potassium Perchlorate Pyrotechnic Powder: Reaction Mechanism Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10792-10800.	1.5	29
81	Measured in-situ mass absorption spectra for nine forms of highly-absorbing carbonaceous aerosol. <i>Carbon</i> , 2018, 136, 85-93.	5.4	32
82	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018, 359, 1489-1494.	6.0	1,065
83	Study of C/Doped $\text{Bi}_{2}\text{O}_{3}$ Redox Reactions by in Operando Synchrotron X-ray Diffraction: Bond Energy/Oxygen Vacancy and Reaction Kinetics Relationships. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8796-8803.	1.5	12
84	High speed 2-dimensional temperature measurements of nanothermite composites: Probing thermal vs. Gas generation effects. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	59
85	One-step solvent-free mechanochemical synthesis of metal iodate fine powders. <i>Powder Technology</i> , 2018, 324, 62-68.	2.1	15
86	Stabilized microparticle aggregates of oxygen-containing nanoparticles in kerosene for enhanced droplet combustion. <i>Combustion and Flame</i> , 2018, 187, 77-86.	2.8	35
87	Surface Modification of Cisplatin-Complexed Gold Nanoparticles and Its Influence on Colloidal Stability, Drug Loading, and Drug Release. <i>Langmuir</i> , 2018, 34, 154-163.	1.6	27
88	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. <i>Advanced Engineering Materials</i> , 2018, 20, 1700547.	1.6	34
89	What atomic properties of metal oxide control the reaction threshold of solid elemental fuels?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26885-26891.	1.3	3
90	Ignition and Combustion Characterization of $\text{Ca}(\text{IO}_{3})_{2}$ -based Pyrotechnic Composites with B, Al, and Ti. <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 977-985.	1.0	13

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91	In Situ "Chainmail Catalyst" Assembly in Low Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1801289.	10.2	79
92	Mechanistic Studies of [AlCp*] ₄ Combustion. <i>Inorganic Chemistry</i> , 2018, 57, 8181-8188.	1.9	4
93	Preparation and combustion of laminated iodine containing aluminum/polyvinylidene fluoride composites. <i>Combustion and Flame</i> , 2018, 197, 120-126.	2.8	26
94	Boron ignition and combustion with doped δ -Bi ₂ O ₃ : Bond energy/oxygen vacancy relationships. <i>Combustion and Flame</i> , 2018, 197, 127-133.	2.8	48
95	Aggregate shape determination via light scattering by aligned and randomly oriented polydisperse aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 219, 37-45.	1.1	1
96	Reaction mechanism of Al-CuO nanothermites with addition of multilayer graphene. <i>Thermochimica Acta</i> , 2018, 666, 60-65.	1.2	54
97	Reaction mechanisms of potassium oxysalts based energetic composites. <i>Combustion and Flame</i> , 2017, 177, 1-9.	2.8	30
98	In Situ, Fast, High Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017, 7, 1601783.	10.2	27
99	High Heating Rate Reaction Dynamics of Al/CuO Nanolaminates by Nanocalorimetry-Coupled Time-of-Flight Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2771-2777.	1.5	32
100	Incomplete reactions in nanothermite composites. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	32
101	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. <i>Journal of Materials Research</i> , 2017, 32, 890-896.	1.2	28
102	Assembly and encapsulation of aluminum NP's within AP/NC matrix and their reactive properties. <i>Combustion and Flame</i> , 2017, 180, 175-183.	2.8	87
103	<i>In Situ</i> High Temperature Synthesis of Single-Component Metallic Nanoparticles. <i>ACS Central Science</i> , 2017, 3, 294-301.	5.3	34
104	Thermal desorption of dimethyl methylphosphonate from MoO ₃ . <i>Journal of Lithic Studies</i> , 2017, 3, 112-118.	0.1	19
105	Direct In Situ Mass Specific Absorption Spectra of Biomass Burning Particles Generated from Smoldering Hard and Softwoods. <i>Environmental Science & Technology</i> , 2017, 51, 5622-5629.	4.6	10
106	Doped δ -bismuth oxides to investigate oxygen ion transport as a metric for condensed phase thermite ignition. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12749-12758.	1.3	34
107	Friction factor for aerosol fractal aggregates over the entire Knudsen range. <i>Physical Review E</i> , 2017, 95, 013103.	0.8	15
108	Doped Perovskites To Evaluate the Relationship between Fuel "Oxidizer Thermite Ignition and Bond Energy, Electronegativity, and Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 147-152.	1.5	21

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109	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601578.	10.2	120
110	High heating rate decomposition dynamics of copper oxide by nanocalorimetry-coupled time-of-flight mass spectrometry. <i>Chemical Physics Letters</i> , 2017, 689, 26-29.	1.2	23
111	Zeolite-Supported Iron Oxides as Durable and Selective Oxygen Carriers for Chemical Looping Combustion. <i>Energy & Fuels</i> , 2017, 31, 11225-11233.	2.5	11
112	Analytical expression for the friction coefficient of DLCA aggregates based on extended Kirkwood-Riseman theory. <i>Aerosol Science and Technology</i> , 2017, 51, 766-777.	1.5	9
113	Calculating the rotational friction coefficient of fractal aerosol particles in the transition regime using extended Kirkwood-Riseman theory. <i>Physical Review E</i> , 2017, 96, 013110.	0.8	12
114	Direct Deposit of Fiber Reinforced Energetic NanoComposites. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 1079-1084.	1.0	15
115	Fe ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, High-Performance Electrocatalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700482.	10.2	144
116	Crystal structure of a new polymorph of iodic acid, HIO_3 , from powder diffraction. <i>Powder Diffraction</i> , 2017, 32, 261-264.	0.4	5
117	Spectroscopic and Computational Investigation of Room-Temperature Decomposition of a Chemical Warfare Agent Simulant on Polycrystalline Cupric Oxide. <i>Chemistry of Materials</i> , 2017, 29, 7483-7496.	3.2	48
118	Dimethyl Methylphosphonate Adsorption Capacities and Desorption Energies on Ordered Mesoporous Carbons. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40638-40644.	4.0	26
119	Nanoaluminum/Nitrocellulose microparticle additive for burn enhancement of liquid fuels. <i>Combustion and Flame</i> , 2017, 176, 220-228.	2.8	43
120	Direct Deposit of Highly Reactive Bi(IO ₃) ₃ •Polyvinylidene Fluoride Biocidal Energetic Composite and its Reactive Properties. <i>Advanced Engineering Materials</i> , 2017, 19, 1500532.	1.6	19
121	Investigating the oxidation mechanism of tantalum nanoparticles at high heating rates. <i>Journal of Applied Physics</i> , 2017, 122, 245901.	1.1	9
122	Response to "Comment on "In situ imaging of ultra-fast loss of nanostructure in nanoparticle aggregates" [J. Appl. Phys. 119, 066103 (2016)]. <i>Journal of Applied Physics</i> , 2016, 119, 066104.	1.1	1
123	Effect of particle rotation on the drift velocity for nonspherical aerosol particles. <i>Journal of Aerosol Science</i> , 2016, 101, 65-76.	1.8	5
124	Measured Wavelength-Dependent Absorption Enhancement of Internally Mixed Black Carbon with Absorbing and Nonabsorbing Materials. <i>Environmental Science & Technology</i> , 2016, 50, 7982-7990.	4.6	49
125	Probing the Oxidation Mechanism of Ta Nanoparticles via In-Situ and Ex-Situ Ultra-Fast Heating TEM/STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 780-781.	0.2	3
126	Oxidation and decomposition mechanisms of air sensitive aluminum clusters at high heating rates. <i>Chemical Physics Letters</i> , 2016, 661, 168-172.	1.2	2

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127	The effect of alignment on the electric mobility of soot. <i>Aerosol Science and Technology</i> , 2016, 50, 1003-1016.	1.5	6
128	On-the-fly green generation and dispersion of AgI nanoparticles for cloud seeding nuclei. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	9
129	Ignition and Combustion Characteristics of Nanoaluminum with Copper Oxide Nanoparticles of Differing Oxidation State. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29023-29029.	1.5	29
130	Electrospray-Differential Mobility Hyphenated with Single Particle Inductively Coupled Plasma Mass Spectrometry for Characterization of Nanoparticles and Their Aggregates. <i>Analytical Chemistry</i> , 2016, 88, 8548-8555.	3.2	30
131	Influence of transition metal electronegativity on the oxygen storage capacity of perovskite oxides. <i>Chemical Communications</i> , 2016, 52, 10369-10372.	2.2	28
132	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016, 7, 12332.	5.8	123
133	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5534-5542.	1.2	145
134	Quantifying the enhanced combustion characteristics of electrospray assembled aluminum mesoparticles. <i>Combustion and Flame</i> , 2016, 167, 472-480.	2.8	46
135	Synergistic effects of ultrafast heating and gaseous chlorine on the neutralization of bacterial spores. <i>Chemical Engineering Science</i> , 2016, 144, 39-47.	1.9	8
136	Direct-Deposition to Create High Particle Loading Propellants with Controlled Architecture: Combustion and Mechanical Properties. , 2016, , .		1
137	Size-Resolved Burn Rate Measurements of Metal NanoParticles. , 2016, , .		1
138	Enhanced thermal decomposition kinetics of poly(lactic acid) sacrificial polymer catalyzed by metal oxide nanoparticles. <i>RSC Advances</i> , 2015, 5, 101745-101750.	1.7	16
139	Nanocalorimetry-Coupled Time-of-Flight Mass Spectrometry: Identifying Evolved Species during High-Rate Thermal Measurements. <i>Analytical Chemistry</i> , 2015, 87, 9740-9744.	3.2	21
140	Time-Resolved Nanosecond Imaging of Nanoscale Condensed Phase Reaction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2792-2797.	1.5	42
141	Size Resolved High Temperature Oxidation Kinetics of Nano-Sized Titanium and Zirconium Particles. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6171-6178.	1.1	28
142	Electrospray formation and combustion characteristics of iodine-containing Al/CuO nanothermite microparticles. <i>Combustion and Flame</i> , 2015, 162, 2823-2829.	2.8	68
143	Commentary on the heat transfer mechanisms controlling propagation in nanothermites. <i>Combustion and Flame</i> , 2015, 162, 2959-2961.	2.8	48
144	Ignition and Combustion Characterization of Nano-Al-AP and Nano-Al-CuO-AP Micro-sized Composites Produced by Electrospray Technique. <i>Energy Procedia</i> , 2015, 66, 109-112.	1.8	30

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145	Direct Deposit Laminate Nanocomposites with Enhanced Propellant Properties. ACS Applied Materials & Interfaces, 2015, 7, 9103-9109.	4.0	87
146	Persulfate salt as an oxidizer for biocidal energetic nano-thermites. Journal of Materials Chemistry A, 2015, 3, 11838-11846.	5.2	42
147	Application of Nano-Aluminum/Nitrocellulose Mesoparticles in Composite Solid Rocket Propellants. Propellants, Explosives, Pyrotechnics, 2015, 40, 413-418.	1.0	63
148	Evaluating free vs bound oxygen on ignition of nano-aluminum based energetics leads to a critical reaction rate criterion. Journal of Applied Physics, 2015, 118, .	1.1	21
149	Molecular Aluminum Additive for Burn Enhancement of Hydrocarbon Fuels. Journal of Physical Chemistry A, 2015, 119, 11084-11093.	1.1	28
150	Probing the Reaction Dynamics of Thermite Nanolaminates. Journal of Physical Chemistry C, 2015, 119, 20401-20408.	1.5	47
151	Electrospray Deposition of Energetic Polymer Nanocomposites with High Mass Particle Loadings: A Prelude to 3D Printing of Rocket Motors. Advanced Engineering Materials, 2015, 17, 95-101.	1.6	121
152	Energy release pathways in nanothermites follow through the condensed state. Combustion and Flame, 2015, 162, 258-264.	2.8	67
153	Packing density of rigid aggregates is independent of scale. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9037-9041.	3.3	39
154	Ignition and Reaction Analysis of High Loading Nano-Al/Fluoropolymer Energetic Composite Films. , 2014, , .		11
155	<i>In situ</i> imaging of ultra-fast loss of nanostructure in nanoparticle aggregates. Journal of Applied Physics, 2014, 115, .	1.1	64
156	Understanding the mobility of nonspherical particles in the free molecular regime. Physical Review E, 2014, 89, 022112.	0.8	17
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