

Michael R Zachariah

List of Publications by Year in descending order

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277
papers

13,569
citations

19657

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279
docs citations

279
times ranked

12863
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018, 359, 1489-1494.	12.6	1,065
2	Uniform Nano-Sn/C Composite Anodes for Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 470-474.	9.1	531
3	Interdispersed Amorphous MnO _x “Carbon Nanocomposites with Superior Electrochemical Performance as Lithium-Storage Material. <i>Advanced Functional Materials</i> , 2012, 22, 803-811.	14.9	376
4	Adsorption and Conformation of Serum Albumin Protein on Gold Nanoparticles Investigated Using Dimensional Measurements and in Situ Spectroscopic Methods. <i>Langmuir</i> , 2011, 27, 2464-2477.	3.5	359
5	Extremely stable antimony-carbon composite anodes for potassium-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 615-623.	30.8	358
6	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019, 14, 851-857.	31.5	278
7	Measurement of Inherent Material Density of Nanoparticle Agglomerates. <i>Journal of Nanoparticle Research</i> , 2004, 6, 267-272.	1.9	263
8	Surface Passivation of Bare Aluminum Nanoparticles Using Perfluoroalkyl Carboxylic Acids. <i>Chemistry of Materials</i> , 2005, 17, 2987-2996.	6.7	207
9	Assembly and reactive properties of Al/CuO based nanothermite microparticles. <i>Combustion and Flame</i> , 2014, 161, 2203-2208.	5.2	176
10	Combustion characteristics of boron nanoparticles. <i>Combustion and Flame</i> , 2009, 156, 322-333.	5.2	174
11	Crumpled Nanopaper from Graphene Oxide. <i>Nano Letters</i> , 2012, 12, 486-489.	9.1	160
12	Mn ₃ O ₄ hollow spheres for lithium-ion batteries with high rate and capacity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4627-4632.	10.3	155
13	Enhancing the Rate of Energy Release from NanoEnergetic Materials by Electrostatically Enhanced Assembly. <i>Advanced Materials</i> , 2004, 16, 1821-1825.	21.0	153
14	Nanothermite reactions: Is gas phase oxygen generation from the oxygen carrier an essential prerequisite to ignition?. <i>Combustion and Flame</i> , 2013, 160, 432-437.	5.2	149
15	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5534-5542.	2.6	145
16	FeS ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, High-Performance Electrocatalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700482.	19.5	144
17	Importance of Phase Change of Aluminum in Oxidation of Aluminum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14793-14795.	2.6	138
18	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.	30.8	129

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19	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.	5.2	127
20	Superior electrochemical performance and structure evolution of mesoporous Fe ₂ O ₃ anodes for lithium-ion batteries. <i>Nano Energy</i> , 2014, 3, 26-35.	16.0	124
21	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016, 7, 12332.	12.8	123
22	Size-Selected Nanoparticle Chemistry: Kinetics of Soot Oxidation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 96-103.	2.5	121
23	Electrospray Deposition of Energetic Polymer Nanocomposites with High Mass Particle Loadings: A Prelude to 3D Printing of Rocket Motors. <i>Advanced Engineering Materials</i> , 2015, 17, 95-101.	3.5	121
24	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601578.	19.5	120
25	Determination of protein aggregation with differential mobility analysis: Application to IgG antibody. <i>Biotechnology and Bioengineering</i> , 2008, 101, 1214-1222.	3.3	113
26	Do nanoenergetic particles remain nano-sized during combustion?. <i>Combustion and Flame</i> , 2014, 161, 1408-1416.	5.2	111
27	Diffusive vs Explosive Reaction at the Nanoscale. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9191-9195.	3.1	109
28	Enhanced reactivity of nano-B/Al/CuO MIC's. <i>Combustion and Flame</i> , 2009, 156, 302-309.	5.2	108
29	Density measurement of size selected multiwalled carbon nanotubes by mobility-mass characterization. <i>Carbon</i> , 2009, 47, 1297-1302.	10.3	107
30	Quantitative characterization of virus-like particles by asymmetrical flow field flow fractionation, electrospray differential mobility analysis, and transmission electron microscopy. <i>Biotechnology and Bioengineering</i> , 2009, 102, 845-855.	3.3	104
31	Electrospun Nanofiber-Based Thermite Textiles and their Reactive Properties. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6432-6435.	8.0	103
32	Super-reactive Nanoenergetic Gas Generators Based on Periodate Salts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9743-9746.	13.8	103
33	Electrospray Formation of Gelled Nano-Aluminum Microspheres with Superior Reactivity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6797-6801.	8.0	101
34	Synthesis and Reactivity of a Super-Reactive Metastable Intermolecular Composite Formulation of Al/KMnO ₄ . <i>Advanced Materials</i> , 2005, 17, 900-903.	21.0	92
35	Facile Aerosol Route to Hollow CuO Spheres and its Superior Performance as an Oxidizer in Nanoenergetic Gas Generators. <i>Advanced Functional Materials</i> , 2013, 23, 1341-1346.	14.9	90
36	Time-resolved flight mass spectrometry for time-resolved analysis of energetic materials. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 194-202.	1.5	88

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37	Direct Deposit Laminate Nanocomposites with Enhanced Propellant Properties. ACS Applied Materials & Interfaces, 2015, 7, 9103-9109.	8.0	87
38	Assembly and encapsulation of aluminum NP's within AP/NC matrix and their reactive properties. Combustion and Flame, 2017, 180, 175-183.	5.2	87
39	Effect of nanoparticle clustering on the effective thermal conductivity of concentrated silica colloids. Physical Review E, 2010, 81, 011406.	2.1	85
40	Dependence of Soot Optical Properties on Particle Morphology: Measurements and Model Comparisons. Environmental Science & Technology, 2014, 48, 3169-3176.	10.0	85
41	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. Nano Research, 2019, 12, 2259-2267.	10.4	85
42	Ignition and Combustion Characteristics of Nanoscale Al/AgI ₃ : A Potential Energetic Biocidal System. Combustion Science and Technology, 2010, 183, 285-302.	2.3	82
43	Synthesis and reactivity of nano-Ag ₂ O as an oxidizer for energetic systems yielding antimicrobial products. Combustion and Flame, 2013, 160, 438-446.	5.2	82
44	Time-Resolved Mass Spectrometry of Nano-Al and Nano-Al/CuO Thermite under Rapid Heating: A Mechanistic Study. Journal of Physical Chemistry C, 2012, 116, 26881-26887.	3.1	81
45	Electrospray-differential mobility analysis of bionanoparticles. Trends in Biotechnology, 2012, 30, 291-300.	9.3	80
46	In Situ "Chainmail Catalyst" Assembly in Low Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. Advanced Energy Materials, 2018, 8, 1801289.	19.5	79
47	On the role of built-in electric fields on the ignition of oxide coated nanoaluminum: Ion mobility versus Fickian diffusion. Journal of Applied Physics, 2010, 107, .	2.5	78
48	Aerosol Synthesis of High Entropy Alloy Nanoparticles. Langmuir, 2020, 36, 1985-1992.	3.5	74
49	Soot aggregate restructuring during water processing. Journal of Aerosol Science, 2013, 66, 209-219.	3.8	73
50	Quantitative laser-induced breakdown spectroscopy for aerosols via internal calibration: Application to the oxidative coating of aluminum nanoparticles. Journal of Aerosol Science, 2006, 37, 677-695.	3.8	71
51	Competitive Adsorption of Thiolated Polyethylene Glycol and Mercaptopropionic Acid on Gold Nanoparticles Measured by Physical Characterization Methods. Langmuir, 2010, 26, 10325-10333.	3.5	71
52	<i>In Situ</i> Oxidation Studies of High-Entropy Alloy Nanoparticles. ACS Nano, 2020, 14, 15131-15143.	14.6	71
53	Microstructural Behavior of the Alumina Shell and Aluminum Core Before and After Melting of Aluminum Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 404-411.	3.1	69
54	Electrospray formation and combustion characteristics of iodine-containing Al/CuO nanothermite microparticles. Combustion and Flame, 2015, 162, 2823-2829.	5.2	68

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55	Kinetics of Diesel Nanoparticle Oxidation. Environmental Science & Technology, 2003, 37, 1949-1954.	10.0	67
56	Photoacoustic Measurements of Amplification of the Absorption Cross Section for Coated Soot Aerosols. Aerosol Science and Technology, 2011, 45, 1217-1230.	3.1	67
57	Energy release pathways in nanothermites follow through the condensed state. Combustion and Flame, 2015, 162, 258-264.	5.2	67
58	Characterization of metal-bearing diesel nanoparticles using single-particle mass spectrometry. Journal of Aerosol Science, 2006, 37, 88-110.	3.8	66
59	Encapsulation of Perchlorate Salts within Metal Oxides for Application as Nanoenergetic Oxidizers. Advanced Functional Materials, 2012, 22, 78-85.	14.9	65
60	Synthesis of Metal Oxide Nanoparticles by Rapid, High-Temperature 3D Microwave Heating. Advanced Functional Materials, 2019, 29, 1904282.	14.9	65
61	Nano-structured carbon-coated CuO hollow spheres as stable and high rate anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 15486.	10.3	64
62	<i>In situ</i> imaging of ultra-fast loss of nanostructure in nanoparticle aggregates. Journal of Applied Physics, 2014, 115, .	2.5	64
63	Application of Nano-Aluminum/Nitrocellulose Mesoparticles in Composite Solid Rocket Propellants. Propellants, Explosives, Pyrotechnics, 2015, 40, 413-418.	1.6	63
64	Direct Writing of a 90 wt% Particle Loading Nanothermite. Advanced Materials, 2019, 31, e1806575.	21.0	63
65	Quantifying the Surface Coverage of Conjugate Molecules on Functionalized Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 17155-17157.	3.1	62
66	Characterizing the coating and size-resolved oxidative stability of carbon-coated aluminum nanoparticles by single-particle mass-spectrometry. Journal of Nanoparticle Research, 2006, 8, 455-464.	1.9	60
67	In situ microscopy of rapidly heated nano-Al and nano-Al/WO ₃ thermites. Applied Physics Letters, 2010, 97, 133104.	3.3	59
68	High speed 2-dimensional temperature measurements of nanothermite composites: Probing thermal vs. Gas generation effects. Journal of Applied Physics, 2018, 123, .	2.5	59
69	Enhanced Performance of Alkali Metal Doped Fe ₂ O ₃ and Fe ₂ O ₃ /Al ₂ O ₃ Composites As Oxygen Carrier Material in Chemical Looping Combustion. Energy & Fuels, 2013, 27, 4977-4983.	5.1	58
70	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. Matter, 2019, 1, 759-769.	10.0	58
71	Molecular dynamic simulation of dicarboxylic acid coated aqueous aerosol: structure and processing of water vapor. Physical Chemistry Chemical Physics, 2011, 13, 9374.	2.8	54
72	Reaction mechanism of Al-CuO nanothermites with addition of multilayer graphene. Thermochemical Acta, 2018, 666, 60-65.	2.7	54

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73	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. ACS Catalysis, 2019, 9, 902-911.	11.2	54
74	Probing the Nucleus Model for Oligomer Formation during Insulin Amyloid Fibrillogenesis. Biophysical Journal, 2010, 99, 3979-3985.	0.5	53
75	Synergistically Chemical and Thermal Coupling between Graphene Oxide and Graphene Fluoride for Enhancing Aluminum Combustion. ACS Applied Materials & Interfaces, 2020, 12, 7451-7458.	8.0	52
76	Rapid, high-temperature microwave soldering toward a high-performance cathode/electrolyte interface. Energy Storage Materials, 2020, 30, 385-391.	18.0	51
77	Measured Wavelength-Dependent Absorption Enhancement of Internally Mixed Black Carbon with Absorbing and Nonabsorbing Materials. Environmental Science & Technology, 2016, 50, 7982-7990.	10.0	49
78	Commentary on the heat transfer mechanisms controlling propagation in nanothermites. Combustion and Flame, 2015, 162, 2959-2961.	5.2	48
79	Spectroscopic and Computational Investigation of Room-Temperature Decomposition of a Chemical Warfare Agent Simulant on Polycrystalline Cupric Oxide. Chemistry of Materials, 2017, 29, 7483-7496.	6.7	48
80	Boron ignition and combustion with doped $\hat{\Gamma}$ -Bi ₂ O ₃ : Bond energy/oxygen vacancy relationships. Combustion and Flame, 2018, 197, 127-133.	5.2	48
81	Molecular dynamics simulation of the kinetic sintering of Ni and Al nanoparticles. Molecular Simulation, 2009, 35, 804-811.	2.0	47
82	Probing the Reaction Dynamics of Thermite Nanolaminates. Journal of Physical Chemistry C, 2015, 119, 20401-20408.	3.1	47
83	In-operando high-speed microscopy and thermometry of reaction propagation and sintering in a nanocomposite. Nature Communications, 2019, 10, 3032.	12.8	47
84	Quantifying the enhanced combustion characteristics of electrospray assembled aluminum mesoparticles. Combustion and Flame, 2016, 167, 472-480.	5.2	46
85	Low Effective Activation Energies for Oxygen Release from Metal Oxides: Evidence for Mass Transfer Limits at High Heating Rates. ChemPhysChem, 2014, 15, 1666-1672.	2.1	44
86	Nanoaluminum/Nitrocellulose microparticle additive for burn enhancement of liquid fuels. Combustion and Flame, 2017, 176, 220-228.	5.2	43
87	Continuous 2000â°K droplet-to-particle synthesis. Materials Today, 2020, 35, 106-114.	14.2	43
88	Crystalline Phase Reduction of Cuprous Oxide (Cu ₂ O) Nanoparticles Accompanied by a Morphology Change during Ethanol-Assisted Spray Pyrolysis. Langmuir, 2009, 25, 7063-7071.	3.5	42
89	Passivated Iodine Pentoxide Oxidizer for Potential Biocidal Nanoenergetic Applications. ACS Applied Materials & Interfaces, 2013, 5, 8875-8880.	8.0	42
90	Time-Resolved Nanosecond Imaging of Nanoscale Condensed Phase Reaction. Journal of Physical Chemistry C, 2015, 119, 2792-2797.	3.1	42

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91	Persulfate salt as an oxidizer for biocidal energetic nano-thermites. Journal of Materials Chemistry A, 2015, 3, 11838-11846.	10.3	42
92	Understanding ion-mobility and transport properties of aerosol nanowires. Journal of Aerosol Science, 2007, 38, 823-842.	3.8	41
93	Tumor necrosis factor interaction with gold nanoparticles. Nanoscale, 2012, 4, 3208.	5.6	41
94	Controlling the energetic characteristics of micro energy storage device by in situ deposition Al/MoO ₃ nanolaminates with varying internal structure. Chemical Engineering Journal, 2019, 373, 345-354.	12.7	41
95	Length Distribution of Single-Walled Carbon Nanotubes in Aqueous Suspension Measured by Electrospray Differential Mobility Analysis. Small, 2009, 5, 2894-2901.	10.0	40
96	Sticking Coefficient and Processing of Water Vapor on Organic-Coated Nanoaerosols. Journal of Physical Chemistry A, 2008, 112, 966-972.	2.5	39
97	Method for Determining the Absolute Number Concentration of Nanoparticles from Electrospray Sources. Langmuir, 2011, 27, 14732-14739.	3.5	39
98	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.	7.1	39
99	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. Combustion and Flame, 2020, 211, 260-269.	5.2	39
100	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. Advanced Energy Materials, 2020, 10, 2001119.	19.5	39
101	Combustion of 3D printed 90Åwt% loading reinforced nanothermite. Combustion and Flame, 2020, 215, 86-92.	5.2	39
102	Initiation and Reaction in Al/Bi ₂ O ₃ Nanothermites: Evidence for the Predominance of Condensed Phase Chemistry. Combustion Science and Technology, 2014, 186, 1209-1224.	2.3	38
103	Packing and Size Determination of Colloidal Nanoclusters. Langmuir, 2010, 26, 11384-11390.	3.5	37
104	Titanium enhanced ignition and combustion of Al/I ₂ O ₅ mesoparticle composites. Combustion and Flame, 2020, 212, 245-251.	5.2	37
105	Ion-Mobility Spectrometry of Nickel Nanoparticle Oxidation Kinetics: Application to Energetic Materials. Journal of Physical Chemistry C, 2008, 112, 16209-16218.	3.1	36
106	Controlled Formation and Characterization of Dithiothreitol-Conjugated Gold Nanoparticle Clusters. Langmuir, 2014, 30, 3397-3405.	3.5	36
107	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. ACS Applied Polymer Materials, 2019, 1, 982-989.	4.4	36
108	Stabilized microparticle aggregates of oxygen-containing nanoparticles in kerosene for enhanced droplet combustion. Combustion and Flame, 2018, 187, 77-86.	5.2	35

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109	Pre-stressing aluminum nanoparticles as a strategy to enhance reactivity of nanothermite composites. Combustion and Flame, 2019, 205, 33-40.	5.2	35
110	Ignition Behavior of AlH_3 . Combustion Science and Technology, 2010, 182, 1341-1359.	2.3	34
111	Quantification and Compensation of Nonspecific Analyte Aggregation in Electrospray Sampling. Aerosol Science and Technology, 2011, 45, 849-860.	3.1	34
112	<i>In Situ</i> High Temperature Synthesis of Single-Component Metallic Nanoparticles. ACS Central Science, 2017, 3, 294-301.	11.3	34
113	Doped Bi_2O_3 -bismuth oxides to investigate oxygen ion transport as a metric for condensed phase thermite ignition. Physical Chemistry Chemical Physics, 2017, 19, 12749-12758.	2.8	34
114	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. Advanced Engineering Materials, 2018, 20, 1700547.	3.5	34
115	Three-dimensional off-lattice Monte Carlo simulations on a direct relation between experimental process parameters and fractal dimension of colloidal aggregates. Journal of Colloid and Interface Science, 2010, 344, 353-361.	9.4	33
116	High Heating Rate Reaction Dynamics of Al/CuO Nanolaminates by Nanocalorimetry-Coupled Time-of-Flight Mass Spectrometry. Journal of Physical Chemistry C, 2017, 121, 2771-2777.	3.1	32
117	Incomplete reactions in nanothermite composites. Journal of Applied Physics, 2017, 121, .	2.5	32
118	Measured in-situ mass absorption spectra for nine forms of highly-absorbing carbonaceous aerosol. Carbon, 2018, 136, 85-93.	10.3	32
119	Probing the Reaction Zone of Nanolaminates at $\sim 1/4 \mu\text{s}$ Time and $\sim 1/4 \mu\text{m}$ Spatial Resolution. Journal of Physical Chemistry C, 2020, 124, 13679-13687.	3.1	32
120	Online Nanoparticle Mass Measurement by Combined Aerosol Particle Mass Analyzer and Differential Mobility Analyzer: Comparison of Theory and Measurements. Aerosol Science and Technology, 2009, 43, 1075-1083.	3.1	31
121	The Effect of Orientation on the Mobility and Dynamic Shape Factor of Charged Axially Symmetric Particles in an Electric Field. Aerosol Science and Technology, 2012, 46, 1035-1044.	3.1	31
122	Ignition and Combustion Characterization of Nano-Al-AP and Nano-Al-CuO-AP Micro-sized Composites Produced by Electrospray Technique. Energy Procedia, 2015, 66, 109-112.	1.8	30
123	Electrospray-Differential Mobility Hyphenated with Single Particle Inductively Coupled Plasma Mass Spectrometry for Characterization of Nanoparticles and Their Aggregates. Analytical Chemistry, 2016, 88, 8548-8555.	6.5	30
124	Reaction mechanisms of potassium oxysalts based energetic composites. Combustion and Flame, 2017, 177, 1-9.	5.2	30
125	Implementation of a discrete nodal model to probe the effect of size-dependent surface tension on nanoparticle formation and growth. Journal of Aerosol Science, 2006, 37, 1388-1399.	3.8	29
126	Size-resolved kinetics of Zn nanocrystal hydrolysis for hydrogen generation. International Journal of Hydrogen Energy, 2010, 35, 2268-2277.	7.1	29

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127	Restructuring of Graphene Oxide Sheets into Monodisperse Nanospheres. Chemistry of Materials, 2012, 24, 2554-2557.	6.7	29
128	Ignition and Combustion Characteristics of Nanoaluminum with Copper Oxide Nanoparticles of Differing Oxidation State. Journal of Physical Chemistry C, 2016, 120, 29023-29029.	3.1	29
129	Ignition of Nanoscale Titanium/Potassium Perchlorate Pyrotechnic Powder: Reaction Mechanism Study. Journal of Physical Chemistry C, 2018, 122, 10792-10800.	3.1	29
130	Connecting agglomeration and burn rate in a thermite reaction: Role of oxidizer morphology. Combustion and Flame, 2021, 231, 111492.	5.2	29
131	Reduction of Suspended Graphene Oxide Single Sheet Nanopaper: The Effect of Crumpling. Journal of Physical Chemistry C, 2013, 117, 3185-3191.	3.1	28
132	Direct Measurements of Mass-Specific Optical Cross Sections of Single-Component Aerosol Mixtures. Analytical Chemistry, 2013, 85, 8319-8325.	6.5	28
133	Aerosol Synthesis and Reactivity of Thin Oxide Shell Aluminum Nanoparticles via Fluorocarboxylic Acid Functional Coating. Particle and Particle Systems Characterization, 2013, 30, 881-887.	2.3	28
134	Size Resolved High Temperature Oxidation Kinetics of Nano-Sized Titanium and Zirconium Particles. Journal of Physical Chemistry A, 2015, 119, 6171-6178.	2.5	28
135	Molecular Aluminum Additive for Burn Enhancement of Hydrocarbon Fuels. Journal of Physical Chemistry A, 2015, 119, 11084-11093.	2.5	28
136	Influence of transition metal electronegativity on the oxygen storage capacity of perovskite oxides. Chemical Communications, 2016, 52, 10369-10372.	4.1	28
137	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. Journal of Materials Research, 2017, 32, 890-896.	2.6	28
138	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. Combustion and Flame, 2018, 191, 335-342.	5.2	28
139	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. ACS Applied Materials & Interfaces, 2019, 11, 29773-29779.	8.0	28
140	High-Temperature Pulse Method for Nanoparticle Redispersion. Journal of the American Chemical Society, 2020, 142, 17364-17371.	13.7	28
141	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. Advanced Energy Materials, 2017, 7, 1601783.	19.5	27
142	Surface Modification of Cisplatin-Complexed Gold Nanoparticles and Its Influence on Colloidal Stability, Drug Loading, and Drug Release. Langmuir, 2018, 34, 154-163.	3.5	27
143	Vapor-Phase Strategy to Pillaring of Two-Dimensional Zeolite. Journal of the American Chemical Society, 2019, 141, 8712-8716.	13.7	27
144	Development of a phenomenological scaling law for fractal aggregate sintering from molecular dynamics simulation. Journal of Aerosol Science, 2007, 38, 793-806.	3.8	26

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145	“Effective” Negative Surface Tension: A Property of Coated Nanoaerosols Relevant to the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5459-5464.	2.5	26
146	Aerosol-Based Self-Assembly of Nanoparticles into Solid or Hollow Mesospheres. <i>Langmuir</i> , 2010, 26, 4327-4330.	3.5	26
147	Physical Characterization of Icosahedral Virus Ultra Structure, Stability, and Integrity Using Electrospray Differential Mobility Analysis. <i>Analytical Chemistry</i> , 2011, 83, 1753-1759.	6.5	26
148	Quantifying Ligand Adsorption to Nanoparticles Using Tandem Differential Mobility Mass Analysis. <i>Analytical Chemistry</i> , 2012, 84, 6308-6311.	6.5	26
149	Dimethyl Methylphosphonate Adsorption Capacities and Desorption Energies on Ordered Mesoporous Carbons. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40638-40644.	8.0	26
150	Preparation and combustion of laminated iodine containing aluminum/polyvinylidene fluoride composites. <i>Combustion and Flame</i> , 2018, 197, 120-126.	5.2	26
151	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.	9.1	26
152	Synthesis, Characterization, and Application of Antibody Functionalized Fluorescent Silica Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 3335-3343.	14.9	25
153	Evaluating the Mobility of Nanorods in Electric Fields. <i>Aerosol Science and Technology</i> , 2013, 47, 1101-1107.	3.1	24
154	Oxidation Anisotropy and Size-Dependent Reaction Kinetics of Zinc Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14644-14650.	3.1	23
155	Decomposition of Aminotetrazole Based Energetic Materials under High Heating Rate Conditions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1519-1526.	2.5	23
156	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.	2.6	23
157	Experimental observation of the heat transfer mechanisms that drive propagation in additively manufactured energetic materials. <i>Combustion and Flame</i> , 2020, 215, 417-424.	5.2	23
158	Tuning the reactivity and energy release rate of I2O5 based ternary thermite systems. <i>Combustion and Flame</i> , 2021, 228, 210-217.	5.2	23
159	Evidence for the Predominance of Condensed Phase Reaction in Chemical Looping Reactions between Carbon and Oxygen Carriers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24496-24502.	3.1	22
160	Temperature-Programmed Electrospray “Differential Mobility Analysis for Characterization of Ligated Nanoparticles in Complex Media. <i>Langmuir</i> , 2013, 29, 11267-11274.	3.5	22
161	On the promotion of high temperature AP decomposition with silica mesoparticles. <i>Combustion and Flame</i> , 2019, 200, 296-302.	5.2	22
162	Evaluation of electrospray differential mobility analysis for virus particle analysis: Potential applications for biomanufacturing. <i>Journal of Virological Methods</i> , 2011, 178, 201-208.	2.1	21

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163	Nanocalorimetry-Coupled Time-of-Flight Mass Spectrometry: Identifying Evolved Species during High-Rate Thermal Measurements. <i>Analytical Chemistry</i> , 2015, 87, 9740-9744.	6.5	21
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