Sotiris E Pratsinis

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8158910/publications.pdf

Version: 2024-02-01

333 papers	26,057 citations	2963 93 h-index	8599 146 g-index
340 all docs	340 docs citations	340 times ranked	19509 citing authors

#	Article	IF	Citations
1	Flame aerosol synthesis of ceramic powders. Progress in Energy and Combustion Science, 1998, 24, 197-219.	15.8	766
2	Antibacterial Activity of Nanosilver Ions and Particles. Environmental Science & Technology, 2010, 44, 5649-5654.	4.6	735
3	Si:WO₃ Sensors for Highly Selective Detection of Acetone for Easy Diagnosis of Diabetes by Breath Analysis. Analytical Chemistry, 2010, 82, 3581-3587.	3.2	556
4	Flame aerosol synthesis of smart nanostructured materials. Journal of Materials Chemistry, 2007, 17, 4743.	6.7	505
5	Simultaneous nucleation, condensation, and coagulation in aerosol reactors. Journal of Colloid and Interface Science, 1988, 124, 416-427.	5.0	487
6	OH Surface Density of SiO2and TiO2by Thermogravimetric Analysis. Langmuir, 2003, 19, 160-165.	1.6	449
7	Breath analysis by nanostructured metal oxides as chemo-resistive gas sensors. Materials Today, 2015, 18, 163-171.	8.3	393
8	Flame Synthesis of Nanoparticles. Chemical Engineering and Technology, 2001, 24, 583-596.	0.9	380
9	Nanoparticle synthesis at high production rates by flame spray pyrolysis. Chemical Engineering Science, 2003, 58, 1969-1976.	1.9	353
10	Flame-made Ceria Nanoparticles. Journal of Materials Research, 2002, 17, 1356-1362.	1.2	341
11	Ferroelectric WO₃ Nanoparticles for Acetone Selective Detection. Chemistry of Materials, 2008, 20, 4794-4796.	3.2	328
12	A Simple Model for the Evolution of the Characteristics of Aggregate Particles Undergoing Coagulation and Sintering. Aerosol Science and Technology, 1993, 19, 514-526.	1.5	325
13	Coagulation and fragmentation: Universal steady-state particle-size distribution. AICHE Journal, 1996, 42, 1612-1620.	1.8	287
14	A discrete-sectional model for particulate production by gas-phase chemical reaction and aerosol coagulation in the free-molecular regime. Journal of Colloid and Interface Science, 1990, 139, 63-86.	5.0	260
15	An Integrated Microrobotic Platform for Onâ€Demand, Targeted Therapeutic Interventions. Advanced Materials, 2014, 26, 952-957.	11.1	259
16	Breath acetone monitoring by portable Si:WO3 gas sensors. Analytica Chimica Acta, 2012, 738, 69-75.	2.6	256
17	Aerosol flame synthesis of catalysts. Advanced Powder Technology, 2006, 17, 457-480.	2.0	244
18	Breath Sensors for Health Monitoring. ACS Sensors, 2019, 4, 268-280.	4.0	244

#	Article	IF	Citations
19	Formation of agglomerate particles by coagulation and sinteringâ€”Part I. A two-dimensional solution of the population balance equation. Journal of Aerosol Science, 1993, 24, 283-300.	1.8	238
20	Highly selective detection of methanol over ethanol by a handheld gas sensor. Nature Communications, 2019, 10, 4220.	5.8	215
21	Flame-Made Durable Doped-CaO Nanosorbents for CO₂ Capture. Energy & Fuels, 2009, 23, 1093-1100.	2.5	209
22	Homogeneous ZnO Nanoparticles by Flame Spray Pyrolysis. Journal of Nanoparticle Research, 2002, 4, 337-343.	0.8	208
23	Optimal Doping for Enhanced SnO₂ Sensitivity and Thermal Stability. Advanced Functional Materials, 2008, 18, 1969-1976.	7.8	193
24	Direct synthesis of maghemite, magnetite and wustite nanoparticles by flame spray pyrolysis. Advanced Powder Technology, 2009, 20, 190-194.	2.0	191
25	The role of gas mixing in flame synthesis of titania powders. Powder Technology, 1996, 86, 87-93.	2.1	189
26	Self-preserving size distributions of agglomerates. Journal of Aerosol Science, 1995, 26, 175-185.	1.8	184
27	Toxicity of Silver Nanoparticles in Macrophages. Small, 2013, 9, 2576-2584.	5.2	184
28	Flame sprayed visible light-active Fe-TiO2 for photomineralisation of oxalic acid. Catalysis Today, 2007, 120, 203-213.	2.2	183
29	E-Nose Sensing of Low-ppb Formaldehyde in Gas Mixtures at High Relative Humidity for Breath Screening of Lung Cancer?. ACS Sensors, 2016, 1, 528-535.	4.0	176
30	Direct (one-step) synthesis of <mml:math altimg="si30.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://. Chemical Engineerin	1.9	175
31	Selective sensing of NH 3 by Si-doped Î±-MoO 3 for breath analysis. Sensors and Actuators B: Chemical, 2016, 223, 266-273.	4.0	175
32	Soft- and Hard-Agglomerate Aerosols Made at High Temperatures. Langmuir, 2004, 20, 5933-5939.	1.6	174
33	Fluoro-apatite and Calcium Phosphate Nanoparticles by Flame Synthesis. Chemistry of Materials, 2005, 17, 36-42.	3.2	174
34	Quantifying the Origin of Released Ag⁺ Ions from Nanosilver. Langmuir, 2012, 28, 15929-15936.	1.6	174
35	Dopants in Vapor-Phase Synthesis of Titania Powders. Journal of the American Ceramic Society, 1992, 75, 3408-3416.	1.9	169
36	Gas phase production of particles in reactive turbulent flows. Journal of Aerosol Science, 1991, 22, 637-655.	1.8	161

#	Article	IF	Citations
37	Synthesis of catalytic materials in flames: opportunities and challenges. Chemical Society Reviews, 2016, 45, 3053-3068.	18.7	161
38	Hybrid, Silica-Coated, Janus-Like Plasmonic-Magnetic Nanoparticles. Chemistry of Materials, 2011, 23, 1985-1992.	3.2	158
39	Laminar and turbulent shear-induced flocculation of fractal aggregates. AICHE Journal, 1999, 45, 1114-1124.	1.8	157
40	Iron from nanocompounds containing iron and zinc is highly bioavailable in rats without tissue accumulation. Nature Nanotechnology, 2010, 5, 374-380.	15.6	156
41	Effect of Zirconia Doping on the Structure and Stability of CaO-Based Sorbents for CO₂ Capture during Extended Operating Cycles. Journal of Physical Chemistry C, 2011, 115, 24804-24812.	1.5	156
42	Flame Aerosol Synthesis of Vanadiaâ€“Titania Nanoparticles: Structural and Catalytic Properties in the Selective Catalytic Reduction of NO by NH3. Journal of Catalysis, 2001, 197, 182-191.	3.1	155
43	Engineering nanosilver as an antibacterial, biosensor and bioimaging material. Current Opinion in Chemical Engineering, 2011, 1, 3-10.	3.8	154
44	Flame-made platinum/alumina: structural properties and catalytic behaviour in enantioselective hydrogenation. Journal of Catalysis, 2003, 213, 296-304.	3.1	153
45	Bismuth Oxide Nanoparticles by Flame Spray Pyrolysis. Journal of the American Ceramic Society, 2002, 85, 1713-1718.	1.9	153
46	Fractal Analysis of Flame-Synthesized Nanostructured Silica and Titania Powders Using Small-Angle X-ray Scattering. Langmuir, 1998, 14, 5751-5756.	1.6	149
47	Vapor synthesis of titania powder by titanium tetrachloride oxidation. AICHE Journal, 1991, 37, 1561-1570.	1.8	148
48	Rapid synthesis of stable ZnO quantum dots. Journal of Applied Physics, 2002, 92, 6537-6540.	1.1	146
49	Anti-Fogging Nanofibrous SiO₂ and Nanostructured SiO₂â^TiO₂ Films Made by Rapid Flame Deposition and In Situ Annealing. Langmuir, 2009, 25, 12578-12584.	1.6	146
50	Design of Nanomaterial Synthesis by Aerosol Processes. Annual Review of Chemical and Biomolecular Engineering, 2012, 3, 103-127.	3.3	143
51	Nanorods of ZnO Made by Flame Spray Pyrolysis. Chemistry of Materials, 2006, 18, 572-578.	3.2	141
52	Zirconia Nanoparticles Made in Spray Flames at High Production Rates. Journal of the American Ceramic Society, 2004, 87, 197-202.	1.9	133
53	Dopants in Flame Synthesis of Titania. Journal of the American Ceramic Society, 1995, 78, 2984-2992.	1.9	132
54	Computational fluid-particle dynamics for the flame synthesis of alumina particles. Chemical Engineering Science, 2000, 55, 177-191.	1.9	130

#	Article	IF	Citations
55	Micropatterning Layers by Flame Aerosol Depositionâ€Annealing. Advanced Materials, 2008, 20, 3005-3010.	11.1	130
56	Scale-up of nanoparticle synthesis in diffusion flame reactors. Chemical Engineering Science, 2003, 58, 4581-4589.	1.9	129
57	Antioxidant and Antiradical SiO₂ Nanoparticles Covalently Functionalized with Gallic Acid. ACS Applied Materials & Interfaces, 2012, 4, 6609-6617.	4.0	129
58	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. Industrial & Engineering Chemistry Research, 2014, 53, 10734-10742.	1.8	125
59	Flame synthesis of functional nanostructured materials and devices: Surface growth and aggregation. Proceedings of the Combustion Institute, 2017, 36, 29-50.	2.4	125
60	Kinetics of Titanium(IV) Chloride Oxidation. Journal of the American Ceramic Society, 1990, 73, 2158-2162.	1.9	124
61	Agglomerates and aggregates of nanoparticles made in the gas phase. Advanced Powder Technology, 2014, 25, 71-90.	2.0	124
62	Flame synthesis of nanocrystalline ceriaâ€“zirconia: effect of carrier liquid. Chemical Communications, 2003, , 588-589.	2.2	122
63	Aggregate morphology evolution by sintering: Number and diameter of primary particles. Journal of Aerosol Science, 2012, 46, 7-19.	1.8	122
64	Hermetically Coated Superparamagnetic Fe₂O₃ Particles with SiO₂ Nanofilms. Chemistry of Materials, 2009, 21, 2094-2100.	3.2	120
65	Sintering Rate and Mechanism of TiO₂ Nanoparticles by Molecular Dynamics. Journal of Physical Chemistry C, 2011, 115, 11030-11035.	1.5	120
66	Nonâ€Toxic Dryâ€Coated Nanosilver for Plasmonic Biosensors. Advanced Functional Materials, 2010, 20, 4250-4257.	7.8	119
67	Nanosilver on nanostructured silica: Antibacterial activity and Ag surface area. Chemical Engineering Journal, 2011, 170, 547-554.	6.6	118
68	Formation of agglomerate particles by coagulation and sinteringâ€”Part II. The evolution of the morphology of aerosol-made titania, silica and silica-doped titania powders. Journal of Aerosol Science, 1993, 24, 301-313.	1.8	117
69	Cubic or monoclinic Y2O3:Eu3+ nanoparticles by one step flame spray pyrolysis. Chemical Physics Letters, 2005, 415, 193-197.	1.2	112
70	Fragmentation and restructuring of soft-agglomerates under shear. Journal of Colloid and Interface Science, 2010, 342, 261-268.	5.0	109
71	Flame-made Alumina Supported Pdâ€“Pt Nanoparticles: Structural Properties and Catalytic Behavior in Methane Combustion. Catalysis Letters, 2005, 104, 9-16.	1.4	108
72	Dispersed nanoelectrode devices. Nature Nanotechnology, 2010, 5, 54-60.	15.6	107

#	Article	IF	Citations
73	In Situ Coating of Flame-Made TiO₂ Particles with Nanothin SiO₂ Films. Langmuir, 2008, 24, 12553-12558.	1.6	106
74	Minimal cross-sensitivity to humidity during ethanol detection by SnO₂â€“TiO₂solid solutions. Nanotechnology, 2009, 20, 315502.	1.3	106
75	Aerosolâ€based technologies in nanoscale manufacturing: from functional materials to devices through core chemical engineering. AIChE Journal, 2010, 56, 3028-3035.	1.8	106
76	Effect of reaction temperature on CVD-made TiO2 primary particle diameter. Chemical Engineering Science, 2003, 58, 3327-3335.	1.9	105
77	Structure of Flame-Made Silica Nanoparticles by Ultra-Small-Angle X-ray Scattering. Langmuir, 2004, 20, 1915-1921.	1.6	105
78	Flame-made Nb- and Cu-doped TiO2 sensors for CO and ethanol. Sensors and Actuators B: Chemical, 2008, 130, 449-457.	4.0	105
79	Titania formation by TiCl4 gas phase oxidation, surface growth and coagulation. Journal of Aerosol Science, 2002, 33, 17-34.	1.8	104
80	Probing the dynamics of nanoparticle growth in a flame using synchrotron radiation. Nature Materials, 2004, 3, 370-373.	13.3	103
81	Synthesis, Characterization, and Bioavailability in Rats of Ferric Phosphate Nanoparticles. Journal of Nutrition, 2007, 137, 614-619.	1.3	102
82	The Structure of Agglomerates Consisting of Polydisperse Particles. Aerosol Science and Technology, 2012, 46, 347-353.	1.5	100
83	Monitoring the flame synthesis of TiO2 particles by in-situ FTIR spectroscopy and thermophoretic sampling. Combustion and Flame, 2001, 124, 560-572.	2.8	99
84	Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silicaâ€Coated Au/Fe₂O₃ Nanoaggregates. Advanced Functional Materials, 2014, 24, 2818-2827.	7.8	99
85	Selective sensing of isoprene by Ti-doped ZnO for breath diagnostics. Journal of Materials Chemistry B, 2016, 4, 5358-5366.	2.9	99
86	Pd Subnano-Clusters on TiO₂ for Solar-Light Removal of NO. ACS Catalysis, 2016, 6, 1887-1893.	5.5	99
87	Single Pd atoms on TiO2 dominate photocatalytic NOx removal. Applied Catalysis B: Environmental, 2018, 226, 127-134.	10.8	99
88	Design of metal nanoparticle synthesis by vapor flow condensation. Chemical Engineering Science, 2002, 57, 1753-1762.	1.9	98
89	Multiparticle Sintering Dynamics: From Fractal-Like Aggregates to Compact Structures. Langmuir, 2011, 27, 6358-6367.	1.6	98
90	In Situ EPR Study of the Redox Properties of CuOâ€“CeO₂ Catalysts for Preferential CO Oxidation (PROX). ACS Catalysis, 2016, 6, 3520-3530.	5.5	97

#	Article	IF	Citations
91	Gas-phase manufacture of particulates: interplay of chemical reaction and aerosol coagulation in the free-molecular regime. Industrial & Engineering Chemistry Research, 1989, 28, 1474-1481.	1.8	96
92	Criteria for Flame-Spray Synthesis of Hollow, Shell-Like, or Inhomogeneous Oxides. Journal of the American Ceramic Society, 2005, 88, 1388-1393.	1.9	96
93	Hydrothermal stability of pure and modified microporous silica membranes. Journal of Materials Science, 1995, 30, 2803-2808.	1.7	95
94	Correlations between blood glucose and breath components from portable gas sensors and PTR-TOF-MS. Journal of Breath Research, 2013, 7, 037110.	1.5	95
95	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. Nature Communications, 2020, 11, 4008.	5.8	95
96	Reactive polycyclic aromatic hydrocarbon dimerization drives soot nucleation. Physical Chemistry Chemical Physics, 2018, 20, 10926-10938.	1.3	93
97	Structure & strength of silica-PDMS nanocomposites. Polymer, 2010, 51, 1796-1804.	1.8	92
98	Noninvasive Body Fat Burn Monitoring from Exhaled Acetone with Si-doped WO₃-sensing Nanoparticles. Analytical Chemistry, 2017, 89, 10578-10584.	3.2	92
99	Computational analysis of coagulation and coalescence in the flame synthesis of titania particles. Powder Technology, 2001, 118, 242-250.	2.1	91
100	Sniffing Entrapped Humans with Sensor Arrays. Analytical Chemistry, 2018, 90, 4940-4945.	3.2	91
101	Simultaneous deposition of Au nanoparticles during flame synthesis of TiO₂ and SiO₂. Journal of Materials Research, 2003, 18, 115-120.	1.2	89
102	Flame-made nanoparticles for nanocomposites. Nano Today, 2010, 5, 48-65.	6.2	89
103	Fluid-particle dynamics during combustion spray aerosol synthesis of ZrO2. Chemical Engineering Journal, 2012, 191, 491-502.	6.6	89
104	Zeolite membranes for highly selective formaldehyde sensors. Sensors and Actuators B: Chemical, 2018, 257, 916-923.	4.0	89
105	Competition between gas phase and surface oxidation of TiCl4 during synthesis of TiO2 particles. Chemical Engineering Science, 1998, 53, 1861-1868.	1.9	88
106	Nozzle-quenching process for controlled flame synthesis of titania nanoparticles. AICHE Journal, 2003, 49, 1667-1675.	1.8	87
107	Two-Nozzle Flame Synthesis of Pt/Ba/Al2O3 for NOx Storage. Chemistry of Materials, 2006, 18, 2532-2537.	3.2	87
108	Vapor phase synthesis of Al-doped titania powders. Journal of Materials Research, 1994, 9, 1241-1249.	1.2	84

#	Article	IF	Citations
109	Droplet and Particle Dynamics during Flame Spray Synthesis of Nanoparticlesâ€. Industrial & Engineering Chemistry Research, 2005, 44, 6222-6232.	1.8	84
110	Kinetics of Carbothermal Reduction Synthesis of Boron Carbide. Journal of the American Ceramic Society, 1992, 75, 2509-2514.	1.9	82
111	Effect of solvent composition on oxide morphology during flame spray pyrolysis of metal nitrates. Physical Chemistry Chemical Physics, 2011, 13, 9246.	1.3	82
112	Color-Tunable Nanophosphors by Codoping Flame-Made Y₂O₃ with Tb and Eu. Journal of Physical Chemistry C, 2011, 115, 1084-1089.	1.5	81
113	Highly Selective and Rapid Breath Isoprene Sensing Enabled by Activated Alumina Filter. ACS Sensors, 2018, 3, 677-683.	4.0	81
114	Non-agglomerated dry silica nanoparticles. Powder Technology, 2004, 140, 40-48.	2.1	80
115	Oxidative Dehydrogenation of Ethane with CO₂ over Flame-Made Ga-Loaded TiO₂. ACS Catalysis, 2015, 5, 690-702.	5.5	80
116	Evolution of primary and aggregate particle-size distributions by coagulation and sintering. AICHE Journal, 2000, 46, 407-415.	1.8	79
117	Size controlled CuO nanoparticles for Li-ion batteries. Journal of Power Sources, 2013, 241, 415-422.	4.0	79
118	Metalâ€“support interactions in catalysts for environmental remediation. Environmental Science: Nano, 2017, 4, 2076-2092.	2.2	79
119	Brilliant Yellow, Transparent Pure, and SiO₂-Coated BiVO₄ Nanoparticles Made in Flames. Chemistry of Materials, 2008, 20, 6346-6351.	3.2	77
120	Sintering Time for Silica Particle Growth. Aerosol Science and Technology, 2001, 34, 237-246.	1.5	76
121	Growth of zirconia particles made by flame spray pyrolysis. AICHE Journal, 2004, 50, 3085-3094.	1.8	75
122	PHOTOCATALYTIC DESTRUCTION OF PHENOL AND SALICYLIC ACID WITH AEROSOL-MADE AND COMMERCIAL TITANIA POWDERS. Chemical Engineering Communications, 1996, 151, 251-269.	1.5	74
123	In Situ Fourier Transform Infrared Characterization of the Effect of Electrical Fields on the Flame Synthesis of TiO2Particles. Chemistry of Materials, 1997, 9, 2702-2708.	3.2	73
124	Influence of support acidâ€“base properties on the platinum-catalyzed enantioselective hydrogenation of activated ketones. Journal of Catalysis, 2010, 271, 115-124.	3.1	73
125	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. ChemCatChem, 2011, 3, 1234-1256.	1.8	73
126	Coagulationâ€“Agglomeration of Fractal-like Particles: Structure and Self-Preserving Size Distribution. Langmuir, 2015, 31, 1320-1327.	1.6	73

#	Article	IF	Citations
127	Flame-Made Pt/Ceria/Zirconia for Low-Temperature Oxygen Exchange. Chemistry of Materials, 2005, 17, 3352-3358.	3.2	72
128	Unprecedented formation of metastable monoclinic BaCO3 nanoparticles. Thermochimica Acta, 2006, 445, 23-26.	1.2	72
129	Electrically Controlled Flame Synthesis of Nanophase TiO₂, SiO_{2,} and SnO₂ Powders. Journal of Materials Research, 1997, 12, 1031-1042.	1.2	71
130	Effect of Ba and K addition and controlled spatial deposition of Rh in Rh/Al2O3 catalysts for CO2 hydrogenation. Applied Catalysis A: General, 2014, 477, 93-101.	2.2	71
131	Direct measurement of entrainment during nanoparticle synthesis in spray flames. Combustion and Flame, 2006, 144, 809-820.	2.8	70
132	Coronaâ€assisted flame synthesis of ultrafine titania particles. Applied Physics Letters, 1995, 66, 3275-3277.	1.5	69
133	Brownian Coagulation at High Concentration. Langmuir, 2007, 23, 9882-9890.	1.6	69
134	Mass-mobility characterization of flame-made ZrO2 aerosols: Primary particle diameter and extent of aggregation. Journal of Colloid and Interface Science, 2012, 387, 12-23.	5.0	69
135	Monte Carlo Simulation of Particle Coagulation and Sintering. Aerosol Science and Technology, 1994, 21, 83-93.	1.5	68
136	Radiopaque dental adhesives: Dispersion of flame-made Ta2O5/SiO2 nanoparticles in methacrylic matrices. Journal of Dentistry, 2008, 36, 579-587.	1.7	68
137	Green, Silica-Coated Monoclinic Y₂O₃:Tb³⁺ Nanophosphors: Flame Synthesis and Characterization. Journal of Physical Chemistry C, 2012, 116, 4493-4499.	1.5	67
138	Independent Control of Metal Cluster and Ceramic Particle Characteristics During One-step Synthesis of Pt/TiO2. Journal of Materials Research, 2005, 20, 2568-2577.	1.2	66
139	Morphology and composition of spray-flame-made yttria-stabilized zirconia nanoparticles. Nanotechnology, 2005, 16, S609-S617.	1.3	66
140	Flame-derived Pt/Ba/CexZr1â^'xO2CexZr1â^'xO2: Influence of support on thermal deterioration and behavior as NOxNOx storage-reduction catalysts. Journal of Catalysis, 2006, 243, 229-238.	3.1	62
141	Guiding Ketogenic Diet with Breath Acetone Sensors. Sensors, 2018, 18, 3655.	2.1	61
142	Competition between TiCl4 hydrolysis and oxidation and its effect on product TiO2 powder. AICHE Journal, 1994, 40, 1183-1192.	1.8	60
143	The quality of SiO2-coatings on flame-made TiO2-based nanoparticles. Journal of Materials Chemistry, 2008, 18, 3547.	6.7	60
144	Design of high-temperature, gas-phase synthesis of hard or soft TiO2 agglomerates. AICHE Journal, 2006, 52, 1318-1325.	1.8	59

#	Article	IF	Citations
145	The effect of ionic additives on aerosol coagulation. Journal of Colloid and Interface Science, 1992, 153, 106-117.	5.0	58
146	Morphology and mobility diameter of carbonaceous aerosols during agglomeration and surface growth. Carbon, 2017, 121, 527-535.	5.4	58
147	Formation and Growth of Sio2Particlesin Low Pressure H2/O2/Ar Flames Doped with Sih4. Combustion Science and Technology, 1997, 123, 287-315.	1.2	57
148	Synthesis of SiO2 and SnO2 particles in diffusion flame reactors. AICHE Journal, 1997, 43, 2657-2664.	1.8	56
149	Development and characterization of a Versatile Engineered Nanomaterial Generation System (VENGES) suitable for toxicological studies. Inhalation Toxicology, 2010, 22, 107-116.	0.8	55
150	Safer Formulation Concept for Flame-Generated Engineered Nanomaterials. ACS Sustainable Chemistry and Engineering, 2013, 1, 843-857.	3.2	54
151	Crystallinity dynamics of gold nanoparticles during sintering or coalescence. AICHE Journal, 2016, 62, 589-598.	1.8	54
152	Superior Acetone Selectivity in Gas Mixtures by Catalystâ€Filtered Chemoresistive Sensors. Advanced Science, 2020, 7, 2001503.	5.6	54
153	A pocket-sized device enables detection of methanol adulteration in alcoholic beverages. Nature Food, 2020, 1, 351-354.	6.2	53
154	Manufacture of optical waveguide preforms by modified chemical vapor deposition. AICHE Journal, 1988, 34, 912-921.	1.8	52
155	Visible-light active black TiO2-Ag/TiOx particles. Applied Catalysis B: Environmental, 2014, 154-155, 9-15.	10.8	52
156	Selective formaldehyde detection at ppb in indoor air with a portable sensor. Journal of Hazardous Materials, 2020, 399, 123052.	6.5	52
157	Flame-made Pd/La2O3/Al2O3 nanoparticles: thermal stability and catalytic behavior in methane combustion. Journal of Materials Chemistry, 2005, 15, 605.	6.7	51
158	Synthesis of zinc oxide/silica composite nanoparticles by flame spray pyrolysis. Journal of Materials Science, 2002, 37, 4627-4632.	1.7	50
159	Morphology of Oxide Particles Made by the Emulsion Combustion Method. Journal of the American Ceramic Society, 2003, 86, 898-904.	1.9	50
160	Plasmonic biocompatible silverâ€“gold alloyed nanoparticles. Chemical Communications, 2014, 50, 13559-13562.	2.2	50
161	Gas-phase synthesis of nanoparticles: scale-up and design of flame reactors. Powder Technology, 2005, 150, 117-122.	2.1	49
162	Developing a tissue glue by engineering the adhesive and hemostatic properties of metal oxide nanoparticles. Nanoscale, 2017, 9, 8418-8426.	2.8	49

#	Article	IF	Citations
163	Theory for Aerosol Generation in Laminar Flow Condensers. Aerosol Science and Technology, 1989, 11, 100-119.	1.5	48
164	Flame temperature measurements during electrically assisted aerosol synthesis of nanoparticles. Combustion and Flame, 2002, 128, 369-381.	2.8	48
165	Continuous flame aerosol synthesis of carbon-coated nano-LiFePO4 for Li-ion batteries. Journal of Aerosol Science, 2011, 42, 657-667.	1.8	48
166	Flame-nozzle synthesis of nanoparticles with closely controlled size, morphology and crystallinity. Materials Letters, 2002, 55, 318-321.	1.3	47
167	Nanostructure Evolution: From Aggregated to Spherical SiO₂ Particles Made in Diffusion Flames. European Journal of Inorganic Chemistry, 2008, 2008, 911-918.	1.0	47
168	Narrowing the size distribution of aerosol-made titania by surface growth and coagulation. Journal of Aerosol Science, 2004, 35, 405-420.	1.8	46
169	Flame-coating of titania particles with silica. Journal of Materials Research, 2005, 20, 1336-1347.	1.2	46
170	Synthesis of silica-carbon particles in a turbulent H2-air flame aerosol reactor. AICHE Journal, 2001, 47, 1533-1543.	1.8	45
171	Luminescence and crystallinity of flame-made Y2O3:Eu3+ nanoparticles. Advanced Powder Technology, 2007, 18, 5-22.	2.0	45
172	Influence of Pt location on BaCO3 or Al2O3 during NOx storage reduction. Journal of Catalysis, 2009, 261, 201-207.	3.1	45
173	Nanoparticulate Tungsten Oxide for Catalytic Epoxidations. ACS Catalysis, 2013, 3, 321-327.	5.5	45
174	Monitoring breath markers under controlled conditions. Journal of Breath Research, 2015, 9, 047101.	1.5	45
175	Highly selective gas sensing enabled by filters. Materials Horizons, 2021, 8, 661-684.	6.4	45
176	Quasi-Self-Preserving Log-Normal Size Distributions in the Transition Regime. Particle and Particle Systems Characterization, 1994, 11, 359-366.	1.2	44
177	One-Step Flame-Synthesis of Carbon-Embedded and -Supported Platinum Clusters. Chemistry of Materials, 2008, 20, 2117-2123.	3.2	44
178	Role of Gasâ˜'Aerosol Mixing during in Situ Coating of Flame-Made Titania Particles. Industrial & Engineering Chemistry Research, 2009, 48, 85-92.	1.8	44
179	Development and optimization of iron- and zinc-containing nanostructured powders for nutritional applications. Nanotechnology, 2009, 20, 475101.	1.3	44
180	Fine tuning the surface acid/base properties of single step flame-made Pt/alumina. Applied Catalysis A: General, 2010, 374, 48-57.	2.2	44

#	Article	IF	Citations
181	Uniform nanoparticles by flame-assisted spray pyrolysis (FASP) of low cost precursors. Journal of Nanoparticle Research, 2011, 13, 2715-2725.	0.8	44
182	Characteristics and Catalytic Properties of Pd/SiO2 Synthesized by One-step Flame Spray Pyrolysis in Liquid-phase Hydrogenation of 1-Heptyne. Catalysis Letters, 2007, 119, 346-352.	1.4	43
183	Soot light absorption and refractive index during agglomeration and surface growth. Proceedings of the Combustion Institute, 2019, 37, 1177-1184.	2.4	43
184	Morphology and Crystallinity of Coalescing Nanosilver by Molecular Dynamics. Journal of Physical Chemistry C, 2015, 119, 10116-10122.	1.5	42
185	Nd³⁺-Doped BiVO₄ luminescent nanothermometers of high sensitivity. Chemical Communications, 2019, 55, 7147-7150.	2.2	42
186	Wafer-level flame-spray-pyrolysis deposition of gas-sensitive layers on microsensors. Journal of Micromechanics and Microengineering, 2008, 18, 035040.	1.5	41
187	Optical waveguide preform fabrication: Silica formation and growth in a highâ€temperature aerosol reactor. Journal of Applied Physics, 1989, 65, 2445-2450.	1.1	40
188	Oxidative coupling of methane on flame-made Mn-Na2WO4/SiO2: Influence of catalyst composition and reaction conditions. Applied Catalysis A: General, 2014, 484, 97-107.	2.2	40
189	Surface Composition and Crystallinity of Coalescing Silverâ€“Gold Nanoparticles. ACS Nano, 2017, 11, 11653-11660.	7.3	40
190	Rapid and Selective NH₃ Sensing by Porous CuBr. Advanced Science, 2020, 7, 1903390.	5.6	40
191	Thermodynamics of Vapor Synthesis of AlN by Nitridation of Aluminum and Its Halides. Journal of the American Ceramic Society, 1992, 75, 920-928.	1.9	39
192	Modeling the formation of boron carbide particles in an aerosol flow reactor. AICHE Journal, 1992, 38, 1685-1692.	1.8	39
193	Coagulation and Fragmentation:Â The Variation of Shear Rate and the Time Lag for Attainment of Steady State. Industrial & Engineering Chemistry Research, 1996, 35, 3074-3080.	1.8	39
194	Size-selected agglomerates of SnO2 nanoparticles as gas sensors. Journal of Applied Physics, 2009, 106, 084316.	1.1	39
195	Flexible, Multifunctional, Magnetically Actuated Nanocomposite Films. Advanced Functional Materials, 2013, 23, 34-41.	7.8	39
196	Coagulation of Agglomerates Consisting of Polydisperse Primary Particles. Langmuir, 2016, 32, 9276-9285.	1.6	39
197	Engineering the Bioactivity of Flame-Made Ceria and Ceria/Bioglass Hybrid Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 2830-2839.	4.0	37
198	Aerosol synthesis of AlN by nitridation of aluminum vapor and clusters. Journal of Materials Research, 1995, 10, 512-520.	1.2	36

#	Article	IF	Citations
199	Flame synthesis of composite carbon black-fumed silica nanostructured particles. Journal of Aerosol Science, 1998, 29, 647-659.	1.8	36
200	Strategies for control of ceramic powder synthesis by gas-to-particle conversion. Powder Technology, 1995, 82, 79-91.	2.1	35
201	Atomically dispersed Pd on nanostructured TiO₂ for NO removal by solar light. AICHE Journal, 2017, 63, 139-146.	1.8	35
202	Orthogonal gas sensor arrays by chemoresistive material design. Mikrochimica Acta, 2018, 185, 563.	2.5	35
203	The impact of organic carbon on soot light absorption. Carbon, 2021, 172, 742-749.	5.4	35
204	Title is missing!. Journal of Nanoparticle Research, 2003, 5, 191-198.	0.8	34
205	Selective side-chain oxidation of alkyl aromatic compounds catalyzed by cerium modified silver catalysts. Journal of Molecular Catalysis A, 2010, 331, 40-49.	4.8	34
206	The effect of external electric fields during flame synthesis of titania. Powder Technology, 2003, 135-136, 310-320.	2.1	33
207	Carbon-coated titania nanostructured particles: Continuous, one-step flame-synthesis. Journal of Materials Research, 2003, 18, 2670-2676.	1.2	33
208	High Concentration Agglomerate Dynamics at High Temperatures. Langmuir, 2006, 22, 10238-10245.	1.6	33
209	Silica-Coated TiN Particles for Killing Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 22550-22560.	4.0	33
210	Continuous Surface Functionalization of Flame-Made TiO₂ Nanoparticles. Langmuir, 2010, 26, 5815-5822.	1.6	31
211	Design of Turbulent Flame Aerosol Reactors by Mixing-Limited Fluid Dynamics. Industrial & Engineering Chemistry Research, 2011, 50, 3159-3168.	1.8	31
212	Silicaâ€Coated Nonstoichiometric Nano Znâ€Ferrites for Magnetic Resonance Imaging and Hyperthermia Treatment. Advanced Healthcare Materials, 2016, 5, 2698-2706.	3.9	31
213	Variability of particle configurations achievable by 2-nozzle flame syntheses of the Au-Pd-TiO2 system and their catalytic behaviors in the selective hydrogenation of acetylene. Applied Catalysis A: General, 2018, 549, 1-7.	2.2	31
214	Estimating the internal and surface oxidation of soot agglomerates. Combustion and Flame, 2019, 209, 493-499.	2.8	31
215	Light scattering from nanoparticle agglomerates. Powder Technology, 2020, 365, 52-59.	2.1	31
216	Catalytic Filter for Continuous and Selective Ethanol Removal Prior to Gas Sensing. ACS Sensors, 2020, 5, 1058-1067.	4.0	30

#	Article	IF	Citations
217	Sampling and dilution of nanoparticles at high temperature. Aerosol Science and Technology, 2016, 50, 591-604.	1.5	29
218	Single-Nanoparticle Thermometry with a Nanopipette. ACS Nano, 2020, 14, 7358-7369.	7.3	29
219	Restructuring of aggregates and their primary particle size distribution during sintering. AICHE Journal, 2013, 59, 1118-1126.	1.8	28
220	In Situ Monitoring of the Deposition of Flame-Made Chemoresistive Gas-Sensing Films. ACS Applied Materials & Interfaces, 2017, 9, 23926-23933.	4.0	28
221	The silanol content and in vitro cytolytic activity of flame-made silica. Journal of Colloid and Interface Science, 2017, 507, 95-106.	5.0	28
222	Y-doped ZnO films for acetic acid sensing down to ppb at high humidity. Sensors and Actuators B: Chemical, 2021, 327, 128843.	4.0	28
223	Packaging of Solâ€“Gelâ€Made Porous Nanostructured Titania Particles by Spray Drying. Journal of the American Ceramic Society, 2001, 84, 2802-2808.	1.9	27
224	Evolution of the Morphology of Zinc Oxide/Silica Particles Made by Spray Combustion. Journal of the American Ceramic Society, 2004, 87, 365-370.	1.9	27
225	Nanoparticles for Biomedicine: Coagulation During Synthesis and Applications. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 155-174.	3.3	27
226	Simultaneous Nanothermometry and Deepâ€Tissue Imaging. Advanced Science, 2020, 7, 2000370.	5.6	27
227	Handheld Device for Selective Benzene Sensing over Toluene and Xylene. Advanced Science, 2022, 9, e2103853.	5.6	27
228	Role of particle evaporation during synthesis of lead oxide by aerosol decomposition. Journal of Materials Research, 1992, 7, 3333-3341.	1.2	26
229	Titaniaâ€“silica doped with transition metals via flame synthesis: structural properties and catalytic behavior in epoxidation. Journal of Materials Chemistry, 2002, 12, 3620-3625.	6.7	26
230	Flame aerosol deposition of Y₂O₃:Eu nanophosphor screens and their photoluminescent performance. Nanotechnology, 2010, 21, 225603.	1.3	26
231	Design of gasâ€phase synthesis of coreâ€shell particles by computational fluidâ€“aerosol dynamics. AICHE Journal, 2011, 57, 3132-3142.	1.8	26
232	A perspective on gas-phase synthesis of nanomaterials: Process design, impact and outlook. Chemical Engineering Journal, 2021, 421, 129884.	6.6	26
233	Novel Differential Reactor for the Measurement of Overall Quantum Yields. Industrial & Engineering Chemistry Research, 1999, 38, 1376-1383.	1.8	25
234	Dynamics of Hollow and Solid Alumina Particle Formation in Spray Flames. Journal of the American Ceramic Society, 2004, 87, 523-525.	1.9	25

#	Article	IF	Citations
235	Determination of the volume fraction of soot accounting for its composition and morphology. Proceedings of the Combustion Institute, 2021, 38, 1189-1196.	2.4	25
236	Impaction and Rebound of Particles at Acute Incident Angles. Aerosol Science and Technology, 1993, 18, 143-155.	1.5	24
237	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14420-14428.	7.2	24
238	Flame Synthesis of Nanosize Powders. ACS Symposium Series, 1996, , 64-78.	0.5	23
239	Flame-Made Pt/K/Al2O3 for NO x Storageâ€"Reduction (NSR) Catalysts. Topics in Catalysis, 2009, 52, 1799-1802.	1.3	23
240	Flame-made chemoresistive gas sensors and devices. Progress in Energy and Combustion Science, 2022, 90, 100992.	15.8	23
241	Agglomerate TiO2 Aerosol Dynamics at High Concentrations. Particle and Particle Systems Characterization, 2007, 24, 56-65.	1.2	22
242	Enhanced Ag⁺ Ion Release from Aqueous Nanosilver Suspensions by Absorption of Ambient CO₂. Langmuir, 2015, 31, 5284-5290.	1.6	22
243	Highly scalable production of uniformly-coated superparamagnetic nanoparticles for triggered drug release from alginate hydrogels. RSC Advances, 2016, 6, 21503-21510.	1.7	22
244	Impact of Humidity on Silica Nanoparticle Agglomerate Morphology and Size Distribution. Langmuir, 2018, 34, 8532-8541.	1.6	22
245	Palladium embedded in SnO2 enhances the sensitivity of flame-made chemoresistive gas sensors. Mikrochimica Acta, 2020, 187, 96.	2.5	22
246	Aggregate characteristics accounting for the evolving fractal-like structure during coagulation and sintering. Journal of Aerosol Science, 2015, 89, 58-68.	1.8	21
247	Detecting methanol in hand sanitizers. IScience, 2021, 24, 102050.	1.9	21
248	Enhanced Light Absorption and Radiative Forcing by Black Carbon Agglomerates. Environmental Science & Technology, 2022, 56, 8610-8618.	4.6	21
249	Homogeneous Iron Phosphate Nanoparticles by Combustion of Sprays. Industrial & Engineering Chemistry Research, 2012, 51, 7891-7900.	1.8	20
250	Rapid synthesis of flexible conductive polymer nanocomposite films. Nanotechnology, 2015, 26, 125601.	1.3	20
251	Deep Tissue Imaging with Highly Fluorescent Near-Infrared Nanocrystals after Systematic Host Screening. Chemistry of Materials, 2017, 29, 8158-8166.	3.2	20
252	Nanoparticle Filler Content and Shape in Polymer Nanocomposites. KONA Powder and Particle Journal, 2019, 36, 3-32.	0.9	20

#	Article	IF	Citations
253	Screening Methanol Poisoning with a Portable Breath Detector. Analytical Chemistry, 2021, 93, 1170-1178.	3.2	20
254	Monitoring Lipolysis by Sensing Breath Acetone down to Partsâ€perâ€Billion. Small Science, 2021, 1, 2100004.	5.8	20
255	Effect of the Proximity of Pt to Ce or Ba in Pt/Ba/CeO2 Catalysts on NO x Storageâ€“Reduction Performance. Topics in Catalysis, 2009, 52, 1709-1712.	1.3	19
256	Mono- and bimetallic Rh and Pt NSR-catalysts prepared by controlled deposition of noble metals on support or storage component. Applied Catalysis B: Environmental, 2012, 113-114, 160-171.	10.8	19
257	Thermal annealing dynamics of carbon-coated LiFePO4 nanoparticles studied by in-situ analysis. Journal of Solid State Chemistry, 2016, 242, 96-102.	1.4	19
258	Nanogenerator power output: influence of particle size and crystallinity of BaTiO₃. Nanotechnology, 2017, 28, 275705.	1.3	19
259	Thermal Energy Dissipation by SiO₂-Coated Plasmonic-Superparamagnetic Nanoparticles in Alternating Magnetic Fields. Chemistry of Materials, 2013, 25, 4603-4612.	3.2	18
260	The effect of settling on cytotoxicity evaluation of SiO2 nanoparticles. Journal of Aerosol Science, 2017, 108, 56-66.	1.8	18
261	Process Design for Size-Controlled Flame Spray Synthesis of Li4Ti5O12 and Electrochemical Performance. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2017, 38, 51-66.	0.7	17
262	Coercivity Determines Magnetic Particle Heating. Advanced Healthcare Materials, 2018, 7, 1800287.	3.9	17
263	Agglomerate-free BaTiO₃ particles by salt-assisted spray pyrolysis. Journal of Materials Research, 2002, 17, 3222-3229.	1.2	16
264	SynthÃ¨se du bioxyde de titane dans un rÃ©acteur Ã flamme: effet de l'orientation et de la configuration de la flamme. Annales De Chimie: Science Des Materiaux, 2002, 27, 37-46.	0.2	16
265	Structural dependence of the efficiency of functionalization of silica-coated FeOx magnetic nanoparticles studied by ATR-IR. Applied Surface Science, 2011, 257, 2861-2869.	3.1	16
266	Towards carbon-free flame spray synthesis of homogeneous oxide nanoparticles from aqueous solutions. Advanced Powder Technology, 2013, 24, 632-642.	2.0	16
267	18. History of Manufacture of Fine Particles in High-Temperature Aerosol Reactors. , 2011, , 475-508.		16
268	Codeposition of SiO2/GeO2 during production of optical fiber preforms by modified chemical vapor deposition. International Journal of Heat and Mass Transfer, 1990, 33, 1977-1986.	2.5	15
269	Volatile Metal Oxide Evaporation during Aerosol Decomposition. Journal of the American Ceramic Society, 1995, 78, 2490-2496.	1.9	15
270	Annealing dynamics of WO 3 by in situ XRD. Materials Research Bulletin, 2014, 59, 199-204.	2.7	15

#	Article	IF	Citations
271	Light Extinction by Agglomerates of Gold Nanoparticles: A Plasmon Ruler for Sub-10 nm Interparticle Distances. Analytical Chemistry, 2022, 94, 5310-5316.	3.2	15
272	Thickness Optimization of Highly Porous Flame-Aerosol Deposited WO3 Films for NO2 Sensing at ppb. Nanomaterials, 2020, 10, 1170.	1.9	14
273	Spirit Distillation: Monitoring Methanol Formation with a Hand-Held Device. ACS Food Science & Technology, 2021, 1, 839-844.	1.3	14
274	Reduced Magnetic Coupling in Ultrasmall Iron Oxide T₁ MRI Contrast Agents. ACS Applied Bio Materials, 2018, 1, 783-791.	2.3	13
275	Influence of controlled spatial deposition of Pt and Pd in NOx storage-reduction catalysts on their efficiency. Applied Catalysis B: Environmental, 2011, 101, 682-689.	10.8	12
276	Gas-phase manufacturing of nanoparticles: Molecular dynamics and mesoscale simulations. Particulate Science and Technology, 2016, 34, 483-493.	1.1	12
277	Monitoring rapid metabolic changes in health and type-1 diabetes with breath acetone sensors. Sensors and Actuators B: Chemical, 2022, 367, 132182.	4.0	12
278	The Intrinsic Catalytic Activity in Photoreactors. Environmental Science & Technology, 2000, 34, 3435-3442.	4.6	11
279	Air Entrainment During Flame Aerosol Synthesis of Nanoparticles. Aerosol Science and Technology, 2014, 48, 1195-1206.	1.5	11
280	Mobility and settling rate of agglomerates of polydisperse nanoparticles. Journal of Chemical Physics, 2018, 148, 064703.	1.2	11
281	Single-Step Fabrication of Polymer Nanocomposite Films. Materials, 2018, 11, 1177.	1.3	11
282	Acetone Sensing and Catalytic Conversion by Pd-Loaded SnO2. Materials, 2021, 14, 5921.	1.3	11
283	Aerosol Flame Reactors for the Synthesis of Nanoparticles. KONA Powder and Particle Journal, 2000, 18, 170-182.	0.9	10
284	110th Anniversary: Synthesis of Plasmonic Silica-Coated TiN Particles. Industrial & Engineering Chemistry Research, 2019, 58, 16610-16619.	1.8	10
285	The impact of molecular simulations in gas-phase manufacture of nanomaterials. Current Opinion in Chemical Engineering, 2019, 23, 174-183.	3.8	10
286	Selective monitoring of breath isoprene by a portable detector during exercise and at rest. Sensors and Actuators B: Chemical, 2022, 357, 131444.	4.0	10
287	Facile meltPEGylation of flame-made luminescent Tb³⁺-doped yttrium oxide particles: hemocompatibility, cellular uptake and comparison to silica. Chemical Communications, 2018, 54, 2914-2917.	2.2	9
288	Scalable Synthesis of Ultrasmall Metal Oxide Radio-Enhancers Outperforming Gold. Chemistry of Materials, 2021, 33, 3098-3112.	3.2	9

#	Article	IF	Citations
289	The Influence of ZnOâ^'ZrO₂ Interface in Hydrogenation of CO₂ to CH₃OH. Helvetica Chimica Acta, 2022, 105, .	1.0	9
290	Electrically Assisted Aerosol Reactors using Ring Electrodes. Materials Research Society Symposia Proceedings, 1998, 520, 3.	0.1	8
291	In situ measurement of conductivity during nanocomposite film deposition. Applied Surface Science, 2016, 371, 329-336.	3.1	8
292	Porosity and crystallinity dynamics of carbon black during internal and surface oxidation. Carbon, 2022, 197, 334-340.	5.4	8
293	A Correlation for Particle Wall Losses by Diffusion in Dilution Chambers. Aerosol Science and Technology, 1993, 18, 213-218.	1.5	7
294	Motor Vehicle Contributions to Fine Carbonaceous Aerosol in Los Angeles. Aerosol Science and Technology, 1994, 21, 360-366.	1.5	6
295	Fracture toughness of zirconia nanoparticle-filled dental composites. Journal of Materials Science, 2009, 44, 6117-6124.	1.7	6
296	Multimineral nutritional supplements in a nano-CaO matrix. Journal of Materials Research, 2013, 28, 1129-1138.	1.2	6
297	High-throughput generation of aircraft-like soot. Aerosol Science and Technology, 2022, 56, 732-743.	1.5	6
298	In-Situ Particle Size and Shape Analysis During Flame Synthesis of Nanosize Powders. ACS Symposium Series, 1997, , 170-186.	0.5	5
299	Monitoring the Dynamics of Concentrated Suspensions by Enhanced Backward Light Scattering. Particle and Particle Systems Characterization, 1999, 16, 201-206.	1.2	5
300	Dissolution and storage stability of nanostructured calcium carbonates and phosphates for nutrition. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	5
301	Pressure- and Temperature-Induced Monoclinic-to-Orthorhombic Phase Transition in Silicalite-1. Journal of Physical Chemistry C, 2018, 122, 6217-6229.	1.5	5
302	Precision in Thermal Therapy: Clinical Requirements and Solutions from Nanotechnology. Advanced Therapeutics, 2021, 4, 2000193.	1.6	5
303	In situ infrared measurements on TiO2 flames: Gas and particle concentrations. AICHE Journal, 2002, 48, 59-68.	1.8	4
304	Santoro flame: The volume fraction of soot accounting for its morphology & composition. Combustion and Flame, 2022, 240, 112025.	2.8	4
305	Receptor Models for Ambient Carbonaceous Aerosols. Aerosol Science and Technology, 1989, 10, 258-266.	1.5	3
306	Receptor Modeling for Contaminant Particle Source Apportionment in Clean Rooms. Aerosol Science and Technology, 1990, 12, 805-812.	1.5	3

#	Article	IF	Citations
307	GRAIN GROWTH AND DENSIFICATION IN PALLADIUM OXIDE PARTICLES DURING SPRAY PYROLYSIS. Chemical Engineering Communications, 1996, 151, 211-226.	1.5	3
308	Non-Toxic Dry-Coated Nanosilver for Plasmonic Biosensors. Advanced Functional Materials, 2010, 20, 4249-4249.	7.8	3
309	Si:WO. , 2010, , .		3
310	AEROSOL-BASED FLAME SYNTHESIS: A MICROREACTOR FOR SILICA NANOPARTICLES. , 2002, , 193-217.		3
311	Effect of Dopants in Vapor Phase Synthesis of Titania Powders. Materials Research Society Symposia Proceedings, 1992, 271, 951.	0.1	2
312	Structure and Strength of Silica-PDMS Nanocomposites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	2
313	Composite nanosilver structures suitable for plasmonic biosensors. Materials Research Society Symposia Proceedings, 2012, 1416, 25.	0.1	2
314	Gas-phase Synthesis of Silver Nanoparticles for Plasmonic Biosensors. Materials Research Society Symposia Proceedings, 2013, 1509, 1.	0.1	2
315	Bi₂O₃ boosts brightness, biocompatibility and stability of Mn-doped Ba₃(VO₄)₂ as NIR-II contrast agent. Journal of Materials Chemistry B, 2021, 9, 3038-3046.	2.9	2
316	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO 2 Catalysts. Angewandte Chemie, 2021, 133, 14541-14549.	1.6	2
317	Sintering Time for Silica Particle Growth. , 0, .		2
318	Synthesis of Titania Powder by Titanium Tetrachloride Oxidation in an Aerosol Flow Reactor. Materials Research Society Symposia Proceedings, 1991, 249, 139.	0.1	1
319	INTRODUCTION: The Role of Aerosols in Materials Processing. Aerosol Science and Technology, 1993, 19, 409-410.	1.5	1
320	Frontispiece: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, .	7.2	1
321	Monte Carlo Simulation of Gas Phase Particle Formation and Sintering. Materials Research Society Symposia Proceedings, 1992, 278, 261.	0.1	0
322	Modeling of the Formation of Boron Carbide Particles in an Aerosol Flow Reactor. Materials Research Society Symposia Proceedings, 1992, 242, 643.	0.1	0
323	Fundamentals of Particle Flocculation and Removal From Water. Materials Research Society Symposia Proceedings, 1994, 344, 217.	0.1	0
324	Aerosol Coating of Silica Fibers with Nanoparticles. Materials Research Society Symposia Proceedings, 1994, 344, 27.	0.1	0

#	Article	IF	Citations
325	Synthesis of nanostructured silica powders by a room temperature aerosol process. Materials Research Society Symposia Proceedings, 1998, 520, 115.	0.1	0
326	Flame Synthesis of Nanoparticles. Chemie-Ingenieur-Technik, 2001, 73, 708-708.	0.4	0
327	D-108 In Situ Studies of Nano-Particle Growth in Flamesâ€"Invited. Powder Diffraction, 2004, 19, 195-195.	0.4	0
328	Aerosol synthesis of chemoresistive gas sensors: Materials, structures and performances. , 2010, , .		0
329	Dispersed Nanoelectrodes for High Performance Gas Sensors. Materials Research Society Symposia Proceedings, 2011, 1292, 93.	0.1	0
330	Silica Coated Multifunctional Plasmonic Nanoparticles for Theranostics. Materials Research Society Symposia Proceedings, 2013, 1506, 1.	0.1	0
331	Cancer Treatment: Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe2O3Nanoaggregates (Adv. Funct. Mater. 19/2014). Advanced Functional Materials, 2014, 24, 2817-2817.	7.8	0
332	Battery Performance: Design and Fabrication of Microspheres with Hierarchical Internal Structure for Tuning Battery Performance (Adv. Sci. 6/2015). Advanced Science, 2015, 2, .	5.6	0
333	Frontispiz: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie, 2021, 133, .	1.6	0