Sotiris E Pratsinis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Handheld Device for Selective Benzene Sensing over Toluene and Xylene. Advanced Science, 2022, 9, e2103853.	11.2	27
2	Selective monitoring of breath isoprene by a portable detector during exercise and at rest. Sensors and Actuators B: Chemical, 2022, 357, 131444.	7.8	10
3	Flame-made chemoresistive gas sensors and devices. Progress in Energy and Combustion Science, 2022, 90, 100992.	31.2	23
4	The Influence of ZnOâ^'ZrO ₂ Interface in Hydrogenation of CO ₂ to CH ₃ OH. Helvetica Chimica Acta, 2022, 105, .	1.6	9
5	Light Extinction by Agglomerates of Gold Nanoparticles: A Plasmon Ruler for Sub-10 nm Interparticle Distances. Analytical Chemistry, 2022, 94, 5310-5316.	6.5	15
6	Santoro flame: The volume fraction of soot accounting for its morphology & composition. Combustion and Flame, 2022, 240, 112025.	5.2	4
7	High-throughput generation of aircraft-like soot. Aerosol Science and Technology, 2022, 56, 732-743.	3.1	6
8	Enhanced Light Absorption and Radiative Forcing by Black Carbon Agglomerates. Environmental Science & Technology, 2022, 56, 8610-8618.	10.0	21
9	Porosity and crystallinity dynamics of carbon black during internal and surface oxidation. Carbon, 2022, 197, 334-340.	10.3	8
10	Monitoring rapid metabolic changes in health and type-1 diabetes with breath acetone sensors. Sensors and Actuators B: Chemical, 2022, 367, 132182.	7.8	12
11	Y-doped ZnO films for acetic acid sensing down to ppb at high humidity. Sensors and Actuators B: Chemical, 2021, 327, 128843.	7.8	28
12	Determination of the volume fraction of soot accounting for its composition and morphology. Proceedings of the Combustion Institute, 2021, 38, 1189-1196.	3.9	25
13	Highly selective gas sensing enabled by filters. Materials Horizons, 2021, 8, 661-684.	12.2	45
14	Screening Methanol Poisoning with a Portable Breath Detector. Analytical Chemistry, 2021, 93, 1170-1178.	6.5	20
15	The impact of organic carbon on soot light absorption. Carbon, 2021, 172, 742-749.	10.3	35
16	Precision in Thermal Therapy: Clinical Requirements and Solutions from Nanotechnology. Advanced Therapeutics, 2021, 4, 2000193.	3.2	5
17	Bi ₂ O ₃ boosts brightness, biocompatibility and stability of Mn-doped Ba ₃ (VO ₄) ₂ as NIR-II contrast agent. Journal of Materials Chemistry B, 2021, 9, 3038-3046.	5.8	2
18	Detecting methanol in hand sanitizers. IScience, 2021, 24, 102050.	4.1	21

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19	Monitoring Lipolysis by Sensing Breath Acetone down to Partsâ€perâ€Billion. Small Science, 2021, 1, 2100004.	9.9	20
20	Scalable Synthesis of Ultrasmall Metal Oxide Radio-Enhancers Outperforming Gold. Chemistry of Materials, 2021, 33, 3098-3112.	6.7	9
21	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO eO 2 Catalysts. Angewandte Chemie, 2021, 133, 14541-14549.	2.0	2
22	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO eO ₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14420-14428.	13.8	24
23	Spirit Distillation: Monitoring Methanol Formation with a Hand-Held Device. ACS Food Science & Technology, 2021, 1, 839-844.	2.7	14
24	Frontispiz: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO eO ₂ Catalysts. Angewandte Chemie, 2021, 133, .	2.0	0
25	Frontispiece: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO eO ₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1
26	A perspective on gas-phase synthesis of nanomaterials: Process design, impact and outlook. Chemical Engineering Journal, 2021, 421, 129884.	12.7	26
27	Acetone Sensing and Catalytic Conversion by Pd-Loaded SnO2. Materials, 2021, 14, 5921.	2.9	11
28	Light scattering from nanoparticle agglomerates. Powder Technology, 2020, 365, 52-59.	4.2	31
29	Palladium embedded in SnO2 enhances the sensitivity of flame-made chemoresistive gas sensors. Mikrochimica Acta, 2020, 187, 96.	5.0	22
30	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. Nature Communications, 2020, 11, 4008.	12.8	95
31	Superior Acetone Selectivity in Gas Mixtures by Catalystâ€Filtered Chemoresistive Sensors. Advanced Science, 2020, 7, 2001503.	11.2	54
32	Single-Nanoparticle Thermometry with a Nanopipette. ACS Nano, 2020, 14, 7358-7369.	14.6	29
33	Selective formaldehyde detection at ppb in indoor air with a portable sensor. Journal of Hazardous Materials, 2020, 399, 123052.	12.4	52
34	A pocket-sized device enables detection of methanol adulteration in alcoholic beverages. Nature Food, 2020, 1, 351-354.	14.0	53
35	Thickness Optimization of Highly Porous Flame-Aerosol Deposited WO3 Films for NO2 Sensing at ppb. Nanomaterials, 2020, 10, 1170.	4.1	14
36	Catalytic Filter for Continuous and Selective Ethanol Removal Prior to Gas Sensing. ACS Sensors, 2020, 5, 1058-1067.	7.8	30

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37	Rapid and Selective NH ₃ Sensing by Porous CuBr. Advanced Science, 2020, 7, 1903390.	11.2	40
38	Simultaneous Nanothermometry and Deepâ€Tissue Imaging. Advanced Science, 2020, 7, 2000370.	11.2	27
39	Estimating the internal and surface oxidation of soot agglomerates. Combustion and Flame, 2019, 209, 493-499.	5.2	31
40	<i>110th Anniversary:</i> Synthesis of Plasmonic Silica-Coated TiN Particles. Industrial & Engineering Chemistry Research, 2019, 58, 16610-16619.	3.7	10
41	Highly selective detection of methanol over ethanol by a handheld gas sensor. Nature Communications, 2019, 10, 4220.	12.8	215
42	Nd ³⁺ -Doped BiVO ₄ luminescent nanothermometers of high sensitivity. Chemical Communications, 2019, 55, 7147-7150.	4.1	42
43	The impact of molecular simulations in gas-phase manufacture of nanomaterials. Current Opinion in Chemical Engineering, 2019, 23, 174-183.	7.8	10
44	Silica-Coated TiN Particles for Killing Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 22550-22560.	8.0	33
45	Nanoparticles for Biomedicine: Coagulation During Synthesis and Applications. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 155-174.	6.8	27
46	Nanoparticle Filler Content and Shape in Polymer Nanocomposites. KONA Powder and Particle Journal, 2019, 36, 3-32.	1.7	20
47	Soot light absorption and refractive index during agglomeration and surface growth. Proceedings of the Combustion Institute, 2019, 37, 1177-1184.	3.9	43
48	Engineering the Bioactivity of Flame-Made Ceria and Ceria/Bioglass Hybrid Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 2830-2839.	8.0	37
49	Breath Sensors for Health Monitoring. ACS Sensors, 2019, 4, 268-280.	7.8	244
50	Highly Selective and Rapid Breath Isoprene Sensing Enabled by Activated Alumina Filter. ACS Sensors, 2018, 3, 677-683.	7.8	81
51	Mobility and settling rate of agglomerates of polydisperse nanoparticles. Journal of Chemical Physics, 2018, 148, 064703.	3.0	11
52	Facile meltPEGylation of flame-made luminescent Tb ³⁺ -doped yttrium oxide particles: hemocompatibility, cellular uptake and comparison to silica. Chemical Communications, 2018, 54, 2914-2917.	4.1	9
53	Pressure- and Temperature-Induced Monoclinic-to-Orthorhombic Phase Transition in Silicalite-1. Journal of Physical Chemistry C, 2018, 122, 6217-6229.	3.1	5
54	Sniffing Entrapped Humans with Sensor Arrays. Analytical Chemistry, 2018, 90, 4940-4945.	6.5	91

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55	Reactive polycyclic aromatic hydrocarbon dimerization drives soot nucleation. Physical Chemistry Chemical Physics, 2018, 20, 10926-10938.	2.8	93
56	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.	4.3	31
57	Single Pd atoms on TiO2 dominate photocatalytic NOx removal. Applied Catalysis B: Environmental, 2018, 226, 127-134.	20.2	99
58	Zeolite membranes for highly selective formaldehyde sensors. Sensors and Actuators B: Chemical, 2018, 257, 916-923.	7.8	89
59	Orthogonal gas sensor arrays by chemoresistive material design. Mikrochimica Acta, 2018, 185, 563.	5.0	35
60	Guiding Ketogenic Diet with Breath Acetone Sensors. Sensors, 2018, 18, 3655.	3.8	61
61	Impact of Humidity on Silica Nanoparticle Agglomerate Morphology and Size Distribution. Langmuir, 2018, 34, 8532-8541.	3.5	22
62	Reduced Magnetic Coupling in Ultrasmall Iron Oxide T ₁ MRI Contrast Agents. ACS Applied Bio Materials, 2018, 1, 783-791.	4.6	13
63	Single-Step Fabrication of Polymer Nanocomposite Films. Materials, 2018, 11, 1177.	2.9	11
64	Coercivity Determines Magnetic Particle Heating. Advanced Healthcare Materials, 2018, 7, 1800287.	7.6	17
65	The effect of settling on cytotoxicity evaluation of SiO2 nanoparticles. Journal of Aerosol Science, 2017, 108, 56-66.	3.8	18
66	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
67	Nanogenerator power output: influence of particle size and crystallinity of BaTiO ₃ . Nanotechnology, 2017, 28, 275705.	2.6	19
68	In Situ Monitoring of the Deposition of Flame-Made Chemoresistive Gas-Sensing Films. ACS Applied Materials & Interfaces, 2017, 9, 23926-23933.	8.0	28
69	Developing a tissue glue by engineering the adhesive and hemostatic properties of metal oxide nanoparticles. Nanoscale, 2017, 9, 8418-8426.	5.6	49
70	Deep Tissue Imaging with Highly Fluorescent Near-Infrared Nanocrystals after Systematic Host Screening. Chemistry of Materials, 2017, 29, 8158-8166.	6.7	20
71	Noninvasive Body Fat Burn Monitoring from Exhaled Acetone with Si-doped WO ₃ -sensing Nanoparticles. Analytical Chemistry, 2017, 89, 10578-10584.	6.5	92
72	Metal–support interactions in catalysts for environmental remediation. Environmental Science: Nano, 2017, 4, 2076-2092.	4.3	79

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73	The silanol content and in vitro cytolytic activity of flame-made silica. Journal of Colloid and Interface Science, 2017, 507, 95-106.	9.4	28
74	Surface Composition and Crystallinity of Coalescing Silver–Gold Nanoparticles. ACS Nano, 2017, 11, 11653-11660.	14.6	40
75	Flame synthesis of functional nanostructured materials and devices: Surface growth and aggregation. Proceedings of the Combustion Institute, 2017, 36, 29-50.	3.9	125
76	Atomically dispersed Pd on nanostructured TiO ₂ for NO removal by solar light. AICHE Journal, 2017, 63, 139-146.	3.6	35
77	Morphology and mobility diameter of carbonaceous aerosols during agglomeration and surface growth. Carbon, 2017, 121, 527-535.	10.3	58
78	Sampling and dilution of nanoparticles at high temperature. Aerosol Science and Technology, 2016, 50, 591-604.	3.1	29
79	In situ measurement of conductivity during nanocomposite film deposition. Applied Surface Science, 2016, 371, 329-336.	6.1	8
80	In Situ EPR Study of the Redox Properties of CuO–CeO ₂ Catalysts for Preferential CO Oxidation (PROX). ACS Catalysis, 2016, 6, 3520-3530.	11.2	97
81	Synthesis of catalytic materials in flames: opportunities and challenges. Chemical Society Reviews, 2016, 45, 3053-3068.	38.1	161
82	Silicaâ€Coated Nonstoichiometric Nano Znâ€Ferrites for Magnetic Resonance Imaging and Hyperthermia Treatment. Advanced Healthcare Materials, 2016, 5, 2698-2706.	7.6	31
83	Coagulation of Agglomerates Consisting of Polydisperse Primary Particles. Langmuir, 2016, 32, 9276-9285.	3.5	39
84	Thermal annealing dynamics of carbon-coated LiFePO4 nanoparticles studied by in-situ analysis. Journal of Solid State Chemistry, 2016, 242, 96-102.	2.9	19
85	Selective sensing of isoprene by Ti-doped ZnO for breath diagnostics. Journal of Materials Chemistry B, 2016, 4, 5358-5366.	5.8	99
86	Dissolution and storage stability of nanostructured calcium carbonates and phosphates for nutrition. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	5
87	Crystallinity dynamics of gold nanoparticles during sintering or coalescence. AICHE Journal, 2016, 62, 589-598.	3.6	54
88	Gas-phase manufacturing of nanoparticles: Molecular dynamics and mesoscale simulations. Particulate Science and Technology, 2016, 34, 483-493.	2.1	12
89	Highly scalable production of uniformly-coated superparamagnetic nanoparticles for triggered drug release from alginate hydrogels. RSC Advances, 2016, 6, 21503-21510.	3.6	22
90	Pd Subnano-Clusters on TiO ₂ for Solar-Light Removal of NO. ACS Catalysis, 2016, 6, 1887-1893.	11.2	99

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91	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.	7.8	176
92	Selective sensing of NH 3 by Si-doped α-MoO 3 for breath analysis. Sensors and Actuators B: Chemical, 2016, 223, 266-273.	7.8	175
93	Battery Performance: Design and Fabrication of Microspheres with Hierarchical Internal Structure for Tuning Battery Performance (Adv. Sci. 6/2015). Advanced Science, 2015, 2, .	11.2	0
94	Monitoring breath markers under controlled conditions. Journal of Breath Research, 2015, 9, 047101.	3.0	45
95	Coagulation–Agglomeration of Fractal-like Particles: Structure and Self-Preserving Size Distribution. Langmuir, 2015, 31, 1320-1327.	3.5	73
96	Aggregate characteristics accounting for the evolving fractal-like structure during coagulation and sintering. Journal of Aerosol Science, 2015, 89, 58-68.	3.8	21
97	Morphology and Crystallinity of Coalescing Nanosilver by Molecular Dynamics. Journal of Physical Chemistry C, 2015, 119, 10116-10122.	3.1	42
98	Enhanced Ag ⁺ Ion Release from Aqueous Nanosilver Suspensions by Absorption of Ambient CO ₂ . Langmuir, 2015, 31, 5284-5290.	3.5	22
99	Rapid synthesis of flexible conductive polymer nanocomposite films. Nanotechnology, 2015, 26, 125601.	2.6	20
100	Oxidative Dehydrogenation of Ethane with CO ₂ over Flame-Made Ga-Loaded TiO ₂ . ACS Catalysis, 2015, 5, 690-702.	11.2	80
101	Breath analysis by nanostructured metal oxides as chemo-resistive gas sensors. Materials Today, 2015, 18, 163-171.	14.2	393
102	Air Entrainment During Flame Aerosol Synthesis of Nanoparticles. Aerosol Science and Technology, 2014, 48, 1195-1206.	3.1	11
103	Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silicaâ€Coated Au/Fe ₂ O ₃ Nanoaggregates. Advanced Functional Materials, 2014, 24, 2818-2827.	14.9	99
104	Visible-light active black TiO2-Ag/TiOx particles. Applied Catalysis B: Environmental, 2014, 154-155, 9-15.	20.2	52
105	An Integrated Microrobotic Platform for Onâ€Đemand, Targeted Therapeutic Interventions. Advanced Materials, 2014, 26, 952-957.	21.0	259
106	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.	14.9	0
107	Plasmonic biocompatible silver–gold alloyed nanoparticles. Chemical Communications, 2014, 50, 13559-13562.	4.1	50
108	Annealing dynamics of WO 3 by in situ XRD. Materials Research Bulletin, 2014, 59, 199-204.	5.2	15

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109	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.	4.3	40
110	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.	4.3	71
111	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. Industrial & Engineering Chemistry Research, 2014, 53, 10734-10742.	3.7	125
112	Agglomerates and aggregates of nanoparticles made in the gas phase. Advanced Powder Technology, 2014, 25, 71-90.	4.1	124
113	Towards carbon-free flame spray synthesis of homogeneous oxide nanoparticles from aqueous solutions. Advanced Powder Technology, 2013, 24, 632-642.	4.1	16
114	Restructuring of aggregates and their primary particle size distribution during sintering. AICHE Journal, 2013, 59, 1118-1126.	3.6	28
115	Correlations between blood glucose and breath components from portable gas sensors and PTR-TOF-MS. Journal of Breath Research, 2013, 7, 037110.	3.0	95
116	Toxicity of Silver Nanoparticles in Macrophages. Small, 2013, 9, 2576-2584.	10.0	184
117	Size controlled CuO nanoparticles for Li-ion batteries. Journal of Power Sources, 2013, 241, 415-422.	7.8	79
118	Nanoparticulate Tungsten Oxide for Catalytic Epoxidations. ACS Catalysis, 2013, 3, 321-327.	11.2	45
119	Safer Formulation Concept for Flame-Generated Engineered Nanomaterials. ACS Sustainable Chemistry and Engineering, 2013, 1, 843-857.	6.7	54
120	Thermal Energy Dissipation by SiO ₂ -Coated Plasmonic-Superparamagnetic Nanoparticles in Alternating Magnetic Fields. Chemistry of Materials, 2013, 25, 4603-4612.	6.7	18
121	Flexible, Multifunctional, Magnetically Actuated Nanocomposite Films. Advanced Functional Materials, 2013, 23, 34-41.	14.9	39
122	Silica Coated Multifunctional Plasmonic Nanoparticles for Theranostics. Materials Research Society Symposia Proceedings, 2013, 1506, 1.	0.1	0
123	Gas-phase Synthesis of Silver Nanoparticles for Plasmonic Biosensors. Materials Research Society Symposia Proceedings, 2013, 1509, 1.	0.1	2
124	Multimineral nutritional supplements in a nano-CaO matrix. Journal of Materials Research, 2013, 28, 1129-1138.	2.6	6
125	Composite nanosilver structures suitable for plasmonic biosensors. Materials Research Society Symposia Proceedings, 2012, 1416, 25.	0.1	2
126	Homogeneous Iron Phosphate Nanoparticles by Combustion of Sprays. Industrial & Engineering Chemistry Research, 2012, 51, 7891-7900.	3.7	20

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127	Quantifying the Origin of Released Ag ⁺ Ions from Nanosilver. Langmuir, 2012, 28, 15929-15936.	3.5	174
128	Green, Silica-Coated Monoclinic Y ₂ O ₃ :Tb ³⁺ Nanophosphors: Flame Synthesis and Characterization. Journal of Physical Chemistry C, 2012, 116, 4493-4499.	3.1	67
129	Breath acetone monitoring by portable Si:WO3 gas sensors. Analytica Chimica Acta, 2012, 738, 69-75.	5.4	256
130	Aggregate morphology evolution by sintering: Number and diameter of primary particles. Journal of Aerosol Science, 2012, 46, 7-19.	3.8	122
131	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.	9.4	69
132	Antioxidant and Antiradical SiO ₂ Nanoparticles Covalently Functionalized with Gallic Acid. ACS Applied Materials & Interfaces, 2012, 4, 6609-6617.	8.0	129
133	The Structure of Agglomerates Consisting of Polydisperse Particles. Aerosol Science and Technology, 2012, 46, 347-353.	3.1	100
134	Design of Nanomaterial Synthesis by Aerosol Processes. Annual Review of Chemical and Biomolecular Engineering, 2012, 3, 103-127.	6.8	143
135	Fluid-particle dynamics during combustion spray aerosol synthesis of ZrO2. Chemical Engineering Journal, 2012, 191, 491-502.	12.7	89
136	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.	20.2	19
137	Effect of solvent composition on oxide morphology during flame spray pyrolysis of metal nitrates. Physical Chemistry Chemical Physics, 2011, 13, 9246.	2.8	82
138	Design of Turbulent Flame Aerosol Reactors by Mixing-Limited Fluid Dynamics. Industrial & Engineering Chemistry Research, 2011, 50, 3159-3168.	3.7	31
139	Multiparticle Sintering Dynamics: From Fractal-Like Aggregates to Compact Structures. Langmuir, 2011, 27, 6358-6367.	3.5	98
140	Effect of Zirconia Doping on the Structure and Stability of CaO-Based Sorbents for CO ₂ Capture during Extended Operating Cycles. Journal of Physical Chemistry C, 2011, 115, 24804-24812.	3.1	156
141	Sintering Rate and Mechanism of TiO ₂ Nanoparticles by Molecular Dynamics. Journal of Physical Chemistry C, 2011, 115, 11030-11035.	3.1	120
142	Color-Tunable Nanophosphors by Codoping Flame-Made Y ₂ O ₃ with Tb and Eu. Journal of Physical Chemistry C, 2011, 115, 1084-1089.	3.1	81
143	Hybrid, Silica-Coated, Janus-Like Plasmonic-Magnetic Nanoparticles. Chemistry of Materials, 2011, 23, 1985-1992.	6.7	158
144	Engineering nanosilver as an antibacterial, biosensor and bioimaging material. Current Opinion in Chemical Engineering, 2011, 1, 3-10.	7.8	154

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145	Continuous flame aerosol synthesis of carbon-coated nano-LiFePO4 for Li-ion batteries. Journal of Aerosol Science, 2011, 42, 657-667.	3.8	48
146	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. ChemCatChem, 2011, 3, 1234-1256.	3.7	73
147	Uniform nanoparticles by flame-assisted spray pyrolysis (FASP) of low cost precursors. Journal of Nanoparticle Research, 2011, 13, 2715-2725.	1.9	44
148	Nanosilver on nanostructured silica: Antibacterial activity and Ag surface area. Chemical Engineering Journal, 2011, 170, 547-554.	12.7	118
149	Design of gasâ€phase synthesis of coreâ€shell particles by computational fluid–aerosol dynamics. AICHE Journal, 2011, 57, 3132-3142.	3.6	26
150	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.	20.2	12
151	Structural dependence of the efficiency of functionalization of silica-coated FeOx magnetic nanoparticles studied by ATR-IR. Applied Surface Science, 2011, 257, 2861-2869.	6.1	16
152	Dispersed Nanoelectrodes for High Performance Gas Sensors. Materials Research Society Symposia Proceedings, 2011, 1292, 93.	0.1	0
153	Structure and Strength of Silica-PDMS Nanocomposites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	2
154	18. History of Manufacture of Fine Particles in High-Temperature Aerosol Reactors. , 2011, , 475-508.		16
155	Flame-made nanoparticles for nanocomposites. Nano Today, 2010, 5, 48-65.	11.9	89
156	Influence of support acid–base properties on the platinum-catalyzed enantioselective hydrogenation of activated ketones. Journal of Catalysis, 2010, 271, 115-124.	6.2	73
157	Nonâ€Toxic Dry oated Nanosilver for Plasmonic Biosensors. Advanced Functional Materials, 2010, 20, 4250-4257.	14.9	119
158	Non-Toxic Dry-Coated Nanosilver for Plasmonic Biosensors. Advanced Functional Materials, 2010, 20, 4249-4249.	14.9	3
159	Aerosolâ€based technologies in nanoscale manufacturing: from functional materials to devices through core chemical engineering. AICHE Journal, 2010, 56, 3028-3035.	3.6	106
160	Fragmentation and restructuring of soft-agglomerates under shear. Journal of Colloid and Interface Science, 2010, 342, 261-268.	9.4	109
161	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
162	Structure & amp; strength of silica-PDMS nanocomposites. Polymer, 2010, 51, 1796-1804.	3.8	92

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163	Fine tuning the surface acid/base properties of single step flame-made Pt/alumina. Applied Catalysis A: General, 2010, 374, 48-57.	4.3	44
164	Dispersed nanoelectrode devices. Nature Nanotechnology, 2010, 5, 54-60.	31.5	107
165	Iron from nanocompounds containing iron and zinc is highly bioavailable in rats without tissue accumulation. Nature Nanotechnology, 2010, 5, 374-380.	31.5	156
166	Flame aerosol deposition of Y ₂ 0 ₃ :Eu nanophosphor screens and their photoluminescent performance. Nanotechnology, 2010, 21, 225603.	2.6	26
167	Antibacterial Activity of Nanosilver Ions and Particles. Environmental Science & Technology, 2010, 44, 5649-5654.	10.0	735
168	Si:WO. , 2010, , .		3
169	Aerosol synthesis of chemoresistive gas sensors: Materials, structures and performances. , 2010, , .		Ο
170	Si:WO ₃ Sensors for Highly Selective Detection of Acetone for Easy Diagnosis of Diabetes by Breath Analysis. Analytical Chemistry, 2010, 82, 3581-3587.	6.5	556
171	Continuous Surface Functionalization of Flame-Made TiO ₂ Nanoparticles. Langmuir, 2010, 26, 5815-5822.	3.5	31
172	Development and characterization of a Versatile Engineered Nanomaterial Generation System (VENGES) suitable for toxicological studies. Inhalation Toxicology, 2010, 22, 107-116.	1.6	55
173	Influence of Pt location on BaCO3 or Al2O3 during NOx storage reduction. Journal of Catalysis, 2009, 261, 201-207.	6.2	45
174	Fracture toughness of zirconia nanoparticle-filled dental composites. Journal of Materials Science, 2009, 44, 6117-6124.	3.7	6
175	Effect of the Proximity of Pt to Ce or Ba in Pt/Ba/CeO2 Catalysts on NO x Storage–Reduction Performance. Topics in Catalysis, 2009, 52, 1709-1712.	2.8	19
176	Flame-Made Pt/K/Al2O3 for NO x Storage–Reduction (NSR) Catalysts. Topics in Catalysis, 2009, 52, 1799-1802.	2.8	23
177	Direct synthesis of maghemite, magnetite and wustite nanoparticles by flame spray pyrolysis. Advanced Powder Technology, 2009, 20, 190-194.	4.1	191
178	Flame-Made Durable Doped-CaO Nanosorbents for CO ₂ Capture. Energy & Fuels, 2009, 23, 1093-1100.	5.1	209
179	Role of Gasâ^'Aerosol Mixing during in Situ Coating of Flame-Made Titania Particles. Industrial & Engineering Chemistry Research, 2009, 48, 85-92.	3.7	44
180	Development and optimization of iron- and zinc-containing nanostructured powders for nutritional applications. Nanotechnology, 2009, 20, 475101.	2.6	44

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181	Minimal cross-sensitivity to humidity during ethanol detection by SnO ₂ –TiO ₂ solid solutions. Nanotechnology, 2009, 20, 315502.	2.6	106
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