

Sotiris E Pratsinis

List of Publications by Year in descending order

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333
papers

26,057
citations

2963

93
h-index

8599

146
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340
all docs

340
docs citations

340
times ranked

19509
citing authors

#	ARTICLE	IF	CITATIONS
1	Handheld Device for Selective Benzene Sensing over Toluene and Xylene. <i>Advanced Science</i> , 2022, 9, e2103853.	5.6	27
2	Selective monitoring of breath isoprene by a portable detector during exercise and at rest. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131444.	4.0	10
3	Flame-made chemoresistive gas sensors and devices. <i>Progress in Energy and Combustion Science</i> , 2022, 90, 100992.	15.8	23
4	The Influence of ZnO \sim ZrO ₂ Interface in Hydrogenation of CO ₂ to CH ₃ OH. <i>Helvetica Chimica Acta</i> , 2022, 105, .	1.0	9
5	Light Extinction by Agglomerates of Gold Nanoparticles: A Plasmon Ruler for Sub-10 nm Interparticle Distances. <i>Analytical Chemistry</i> , 2022, 94, 5310-5316.	3.2	15
6	Santoro flame: The volume fraction of soot accounting for its morphology & composition. <i>Combustion and Flame</i> , 2022, 240, 112025.	2.8	4
7	High-throughput generation of aircraft-like soot. <i>Aerosol Science and Technology</i> , 2022, 56, 732-743.	1.5	6
8	Enhanced Light Absorption and Radiative Forcing by Black Carbon Agglomerates. <i>Environmental Science & Technology</i> , 2022, 56, 8610-8618.	4.6	21
9	Porosity and crystallinity dynamics of carbon black during internal and surface oxidation. <i>Carbon</i> , 2022, 197, 334-340.	5.4	8
10	Monitoring rapid metabolic changes in health and type-1 diabetes with breath acetone sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132182.	4.0	12
11	Y-doped ZnO films for acetic acid sensing down to ppb at high humidity. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128843.	4.0	28
12	Determination of the volume fraction of soot accounting for its composition and morphology. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1189-1196.	2.4	25
13	Highly selective gas sensing enabled by filters. <i>Materials Horizons</i> , 2021, 8, 661-684.	6.4	45
14	Screening Methanol Poisoning with a Portable Breath Detector. <i>Analytical Chemistry</i> , 2021, 93, 1170-1178.	3.2	20
15	The impact of organic carbon on soot light absorption. <i>Carbon</i> , 2021, 172, 742-749.	5.4	35
16	Precision in Thermal Therapy: Clinical Requirements and Solutions from Nanotechnology. <i>Advanced Therapeutics</i> , 2021, 4, 2000193.	1.6	5
17	Bi ₂ O ₃ boosts brightness, biocompatibility and stability of Mn-doped Ba ₃ (VO ₄) ₂ as NIR-II contrast agent. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3038-3046.	2.9	2
18	Detecting methanol in hand sanitizers. <i>IScience</i> , 2021, 24, 102050.	1.9	21

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19	Monitoring Lipolysis by Sensing Breath Acetone down to Parts-per-Billion. <i>Small Science</i> , 2021, 1, 2100004.	5.8	20
20	Scalable Synthesis of Ultrasmall Metal Oxide Radio-Enhancers Outperforming Gold. <i>Chemistry of Materials</i> , 2021, 33, 3098-3112.	3.2	9
21	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie</i> , 2021, 133, 14541-14549.	1.6	2
22	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14420-14428.	7.2	24
23	Spirit Distillation: Monitoring Methanol Formation with a Hand-Held Device. <i>ACS Food Science & Technology</i> , 2021, 1, 839-844.	1.3	14
24	Frontispiz: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
25	Frontispiece: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	1
26	A perspective on gas-phase synthesis of nanomaterials: Process design, impact and outlook. <i>Chemical Engineering Journal</i> , 2021, 421, 129884.	6.6	26
27	Acetone Sensing and Catalytic Conversion by Pd-Loaded SnO ₂ . <i>Materials</i> , 2021, 14, 5921.	1.3	11
28	Light scattering from nanoparticle agglomerates. <i>Powder Technology</i> , 2020, 365, 52-59.	2.1	31
29	Palladium embedded in SnO ₂ enhances the sensitivity of flame-made chemoresistive gas sensors. <i>Mikrochimica Acta</i> , 2020, 187, 96.	2.5	22
30	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. <i>Nature Communications</i> , 2020, 11, 4008.	5.8	95
31	Superior Acetone Selectivity in Gas Mixtures by Catalyzed Filtered Chemoresistive Sensors. <i>Advanced Science</i> , 2020, 7, 2001503.	5.6	54
32	Single-Nanoparticle Thermometry with a Nanopipette. <i>ACS Nano</i> , 2020, 14, 7358-7369.	7.3	29
33	Selective formaldehyde detection at ppb in indoor air with a portable sensor. <i>Journal of Hazardous Materials</i> , 2020, 399, 123052.	6.5	52
34	A pocket-sized device enables detection of methanol adulteration in alcoholic beverages. <i>Nature Food</i> , 2020, 1, 351-354.	6.2	53
35	Thickness Optimization of Highly Porous Flame-Aerosol Deposited WO ₃ Films for NO ₂ Sensing at ppb. <i>Nanomaterials</i> , 2020, 10, 1170.	1.9	14
36	Catalytic Filter for Continuous and Selective Ethanol Removal Prior to Gas Sensing. <i>ACS Sensors</i> , 2020, 5, 1058-1067.	4.0	30

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37	Rapid and Selective NH ₃ Sensing by Porous CuBr. <i>Advanced Science</i> , 2020, 7, 1903390.	5.6	40
38	Simultaneous Nanothermometry and Deep-tissue Imaging. <i>Advanced Science</i> , 2020, 7, 2000370.	5.6	27
39	Estimating the internal and surface oxidation of soot agglomerates. <i>Combustion and Flame</i> , 2019, 209, 493-499.	2.8	31
40	110th Anniversary: Synthesis of Plasmonic Silica-Coated TiN Particles. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16610-16619.	1.8	10
41	Highly selective detection of methanol over ethanol by a handheld gas sensor. <i>Nature Communications</i> , 2019, 10, 4220.	5.8	215
42	Nd ³⁺ -Doped BiVO ₄ luminescent nanothermometers of high sensitivity. <i>Chemical Communications</i> , 2019, 55, 7147-7150.	2.2	42
43	The impact of molecular simulations in gas-phase manufacture of nanomaterials. <i>Current Opinion in Chemical Engineering</i> , 2019, 23, 174-183.	3.8	10
44	Silica-Coated TiN Particles for Killing Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22550-22560.	4.0	33
45	Nanoparticles for Biomedicine: Coagulation During Synthesis and Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2019, 10, 155-174.	3.3	27
46	Nanoparticle Filler Content and Shape in Polymer Nanocomposites. <i>KONA Powder and Particle Journal</i> , 2019, 36, 3-32.	0.9	20
47	Soot light absorption and refractive index during agglomeration and surface growth. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1177-1184.	2.4	43
48	Engineering the Bioactivity of Flame-Made Ceria and Ceria/Bioglass Hybrid Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2830-2839.	4.0	37
49	Breath Sensors for Health Monitoring. <i>ACS Sensors</i> , 2019, 4, 268-280.	4.0	244
50	Highly Selective and Rapid Breath Isoprene Sensing Enabled by Activated Alumina Filter. <i>ACS Sensors</i> , 2018, 3, 677-683.	4.0	81
51	Mobility and settling rate of agglomerates of polydisperse nanoparticles. <i>Journal of Chemical Physics</i> , 2018, 148, 064703.	1.2	11
52	Facile meltPEGylation of flame-made luminescent Tb ³⁺ -doped yttrium oxide particles: hemocompatibility, cellular uptake and comparison to silica. <i>Chemical Communications</i> , 2018, 54, 2914-2917.	2.2	9
53	Pressure- and Temperature-Induced Monoclinic-to-Orthorhombic Phase Transition in Silicalite-1. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6217-6229.	1.5	5
54	Sniffing Entrapped Humans with Sensor Arrays. <i>Analytical Chemistry</i> , 2018, 90, 4940-4945.	3.2	91

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55	Reactive polycyclic aromatic hydrocarbon dimerization drives soot nucleation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10926-10938.	1.3	93
56	Variability of particle configurations achievable by 2-nozzle flame syntheses of the Au-Pd-TiO ₂ system and their catalytic behaviors in the selective hydrogenation of acetylene. <i>Applied Catalysis A: General</i> , 2018, 549, 1-7.	2.2	31
57	Single Pd atoms on TiO ₂ dominate photocatalytic NO _x removal. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 127-134.	10.8	99
58	Zeolite membranes for highly selective formaldehyde sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 916-923.	4.0	89
59	Orthogonal gas sensor arrays by chemoresistive material design. <i>Mikrochimica Acta</i> , 2018, 185, 563.	2.5	35
60	Guiding Ketogenic Diet with Breath Acetone Sensors. <i>Sensors</i> , 2018, 18, 3655.	2.1	61
61	Impact of Humidity on Silica Nanoparticle Agglomerate Morphology and Size Distribution. <i>Langmuir</i> , 2018, 34, 8532-8541.	1.6	22
62	Reduced Magnetic Coupling in Ultrasmall Iron Oxide T ₁ MRI Contrast Agents. <i>ACS Applied Bio Materials</i> , 2018, 1, 783-791.	2.3	13
63	Single-Step Fabrication of Polymer Nanocomposite Films. <i>Materials</i> , 2018, 11, 1177.	1.3	11
64	Coercivity Determines Magnetic Particle Heating. <i>Advanced Healthcare Materials</i> , 2018, 7, 1800287.	3.9	17
65	The effect of settling on cytotoxicity evaluation of SiO ₂ nanoparticles. <i>Journal of Aerosol Science</i> , 2017, 108, 56-66.	1.8	18
66	Process Design for Size-Controlled Flame Spray Synthesis of Li ₄ Ti ₅ O ₁₂ and Electrochemical Performance. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 51-66.	0.7	17
67	Nanogenerator power output: influence of particle size and crystallinity of BaTiO ₃ . <i>Nanotechnology</i> , 2017, 28, 275705.	1.3	19
68	In Situ Monitoring of the Deposition of Flame-Made Chemoresistive Gas-Sensing Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23926-23933.	4.0	28
69	Developing a tissue glue by engineering the adhesive and hemostatic properties of metal oxide nanoparticles. <i>Nanoscale</i> , 2017, 9, 8418-8426.	2.8	49
70	Deep Tissue Imaging with Highly Fluorescent Near-Infrared Nanocrystals after Systematic Host Screening. <i>Chemistry of Materials</i> , 2017, 29, 8158-8166.	3.2	20
71	Noninvasive Body Fat Burn Monitoring from Exhaled Acetone with Si-doped WO ₃ -sensing Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 10578-10584.	3.2	92
72	Metal-support interactions in catalysts for environmental remediation. <i>Environmental Science: Nano</i> , 2017, 4, 2076-2092.	2.2	79

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73	The silanol content and in vitro cytolytic activity of flame-made silica. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 95-106.	5.0	28
74	Surface Composition and Crystallinity of Coalescing Silver-Gold Nanoparticles. <i>ACS Nano</i> , 2017, 11, 11653-11660.	7.3	40
75	Flame synthesis of functional nanostructured materials and devices: Surface growth and aggregation. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 29-50.	2.4	125
76	Atomically dispersed Pd on nanostructured TiO ₂ for NO removal by solar light. <i>AICHE Journal</i> , 2017, 63, 139-146.	1.8	35
77	Morphology and mobility diameter of carbonaceous aerosols during agglomeration and surface growth. <i>Carbon</i> , 2017, 121, 527-535.	5.4	58
78	Sampling and dilution of nanoparticles at high temperature. <i>Aerosol Science and Technology</i> , 2016, 50, 591-604.	1.5	29
79	In situ measurement of conductivity during nanocomposite film deposition. <i>Applied Surface Science</i> , 2016, 371, 329-336.	3.1	8
80	In Situ EPR Study of the Redox Properties of CuO-CeO ₂ Catalysts for Preferential CO Oxidation (PROX). <i>ACS Catalysis</i> , 2016, 6, 3520-3530.	5.5	97
81	Synthesis of catalytic materials in flames: opportunities and challenges. <i>Chemical Society Reviews</i> , 2016, 45, 3053-3068.	18.7	161
82	Silica-Coated Nonstoichiometric Nano Zn-Ferrites for Magnetic Resonance Imaging and Hyperthermia Treatment. <i>Advanced Healthcare Materials</i> , 2016, 5, 2698-2706.	3.9	31
83	Coagulation of Agglomerates Consisting of Polydisperse Primary Particles. <i>Langmuir</i> , 2016, 32, 9276-9285.	1.6	39
84	Thermal annealing dynamics of carbon-coated LiFePO ₄ nanoparticles studied by in-situ analysis. <i>Journal of Solid State Chemistry</i> , 2016, 242, 96-102.	1.4	19
85	Selective sensing of isoprene by Ti-doped ZnO for breath diagnostics. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5358-5366.	2.9	99
86	Dissolution and storage stability of nanostructured calcium carbonates and phosphates for nutrition. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	5
87	Crystallinity dynamics of gold nanoparticles during sintering or coalescence. <i>AICHE Journal</i> , 2016, 62, 589-598.	1.8	54
88	Gas-phase manufacturing of nanoparticles: Molecular dynamics and mesoscale simulations. <i>Particulate Science and Technology</i> , 2016, 34, 483-493.	1.1	12
89	Highly scalable production of uniformly-coated superparamagnetic nanoparticles for triggered drug release from alginate hydrogels. <i>RSC Advances</i> , 2016, 6, 21503-21510.	1.7	22
90	Pd Subnano-Clusters on TiO ₂ for Solar-Light Removal of NO. <i>ACS Catalysis</i> , 2016, 6, 1887-1893.	5.5	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.	4.0	176
92	Selective sensing of NH ₃ by Si-doped \pm -MoO ₃ for breath analysis. Sensors and Actuators B: Chemical, 2016, 223, 266-273.	4.0	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, .	5.6	0
94	Monitoring breath markers under controlled conditions. Journal of Breath Research, 2015, 9, 047101.	1.5	45
95	Coagulation—Agglomeration of Fractal-like Particles: Structure and Self-Preserving Size Distribution. Langmuir, 2015, 31, 1320-1327.	1.6	73
96	Aggregate characteristics accounting for the evolving fractal-like structure during coagulation and sintering. Journal of Aerosol Science, 2015, 89, 58-68.	1.8	21
97	Morphology and Crystallinity of Coalescing Nanosilver by Molecular Dynamics. Journal of Physical Chemistry C, 2015, 119, 10116-10122.	1.5	42
98	Enhanced Ag ⁺ Ion Release from Aqueous Nanosilver Suspensions by Absorption of Ambient CO ₂ . Langmuir, 2015, 31, 5284-5290.	1.6	22
99	Rapid synthesis of flexible conductive polymer nanocomposite films. Nanotechnology, 2015, 26, 125601.	1.3	20
100	Oxidative Dehydrogenation of Ethane with CO ₂ over Flame-Made Ga-Loaded TiO ₂ . ACS Catalysis, 2015, 5, 690-702.	5.5	80
101	Breath analysis by nanostructured metal oxides as chemo-resistive gas sensors. Materials Today, 2015, 18, 163-171.	8.3	393
102	Air Entrainment During Flame Aerosol Synthesis of Nanoparticles. Aerosol Science and Technology, 2014, 48, 1195-1206.	1.5	11
103	Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe ₂ O ₃ Nanoaggregates. Advanced Functional Materials, 2014, 24, 2818-2827.	7.8	99
104	Visible-light active black TiO ₂ -Ag/TiO _x particles. Applied Catalysis B: Environmental, 2014, 154-155, 9-15.	10.8	52
105	An Integrated Microrobotic Platform for On-Demand, Targeted Therapeutic Interventions. Advanced Materials, 2014, 26, 952-957.	11.1	259
106	Cancer Treatment: Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe ₂ O ₃ Nanoaggregates (Adv. Funct. Mater. 19/2014). Advanced Functional Materials, 2014, 24, 2817-2817.	7.8	0
107	Plasmonic biocompatible silver-gold alloyed nanoparticles. Chemical Communications, 2014, 50, 13559-13562.	2.2	50
108	Annealing dynamics of WO ₃ by in situ XRD. Materials Research Bulletin, 2014, 59, 199-204.	2.7	15

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109	Oxidative coupling of methane on flame-made Mn-Na ₂ WO ₄ /SiO ₂ : Influence of catalyst composition and reaction conditions. <i>Applied Catalysis A: General</i> , 2014, 484, 97-107.	2.2	40
110	Effect of Ba and K addition and controlled spatial deposition of Rh in Rh/Al ₂ O ₃ catalysts for CO ₂ hydrogenation. <i>Applied Catalysis A: General</i> , 2014, 477, 93-101.	2.2	71
111	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10734-10742.	1.8	125
112	Agglomerates and aggregates of nanoparticles made in the gas phase. <i>Advanced Powder Technology</i> , 2014, 25, 71-90.	2.0	124
113	Towards carbon-free flame spray synthesis of homogeneous oxide nanoparticles from aqueous solutions. <i>Advanced Powder Technology</i> , 2013, 24, 632-642.	2.0	16
114	Restructuring of aggregates and their primary particle size distribution during sintering. <i>AIChE Journal</i> , 2013, 59, 1118-1126.	1.8	28
115	Correlations between blood glucose and breath components from portable gas sensors and PTR-TOF-MS. <i>Journal of Breath Research</i> , 2013, 7, 037110.	1.5	95
116	Toxicity of Silver Nanoparticles in Macrophages. <i>Small</i> , 2013, 9, 2576-2584.	5.2	184
117	Size controlled CuO nanoparticles for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 241, 415-422.	4.0	79
118	Nanoparticulate Tungsten Oxide for Catalytic Epoxidations. <i>ACS Catalysis</i> , 2013, 3, 321-327.	5.5	45
119	Safer Formulation Concept for Flame-Generated Engineered Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 843-857.	3.2	54
120	Thermal Energy Dissipation by SiO ₂ -Coated Plasmonic-Superparamagnetic Nanoparticles in Alternating Magnetic Fields. <i>Chemistry of Materials</i> , 2013, 25, 4603-4612.	3.2	18
121	Flexible, Multifunctional, Magnetically Actuated Nanocomposite Films. <i>Advanced Functional Materials</i> , 2013, 23, 34-41.	7.8	39
122	Silica Coated Multifunctional Plasmonic Nanoparticles for Theranostics. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1506, 1.	0.1	0
123	Gas-phase Synthesis of Silver Nanoparticles for Plasmonic Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1509, 1.	0.1	2
124	Multimineral nutritional supplements in a nano-CaO matrix. <i>Journal of Materials Research</i> , 2013, 28, 1129-1138.	1.2	6
125	Composite nanosilver structures suitable for plasmonic biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1416, 25.	0.1	2
126	Homogeneous Iron Phosphate Nanoparticles by Combustion of Sprays. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7891-7900.	1.8	20

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127	Quantifying the Origin of Released Ag ⁺ Ions from Nanosilver. <i>Langmuir</i> , 2012, 28, 15929-15936.	1.6	174
128	Green, Silica-Coated Monoclinic Y ₂ O ₃ :Tb ³⁺ Nanophosphors: Flame Synthesis and Characterization. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4493-4499.	1.5	67
129	Breath acetone monitoring by portable Si:WO ₃ gas sensors. <i>Analytica Chimica Acta</i> , 2012, 738, 69-75.	2.6	256
130	Aggregate morphology evolution by sintering: Number and diameter of primary particles. <i>Journal of Aerosol Science</i> , 2012, 46, 7-19.	1.8	122
131	Mass-mobility characterization of flame-made ZrO ₂ aerosols: Primary particle diameter and extent of aggregation. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 12-23.	5.0	69
132	Antioxidant and Antiradical SiO ₂ Nanoparticles Covalently Functionalized with Gallic Acid. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6609-6617.	4.0	129
133	The Structure of Agglomerates Consisting of Polydisperse Particles. <i>Aerosol Science and Technology</i> , 2012, 46, 347-353.	1.5	100
134	Design of Nanomaterial Synthesis by Aerosol Processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012, 3, 103-127.	3.3	143
135	Fluid-particle dynamics during combustion spray aerosol synthesis of ZrO ₂ . <i>Chemical Engineering Journal</i> , 2012, 191, 491-502.	6.6	89
136	Mono- and bimetallic Rh and Pt NSR-catalysts prepared by controlled deposition of noble metals on support or storage component. <i>Applied Catalysis B: Environmental</i> , 2012, 113-114, 160-171.	10.8	19
137	Effect of solvent composition on oxide morphology during flame spray pyrolysis of metal nitrates. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9246.	1.3	82
138	Design of Turbulent Flame Aerosol Reactors by Mixing-Limited Fluid Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3159-3168.	1.8	31
139	Multiparticle Sintering Dynamics: From Fractal-Like Aggregates to Compact Structures. <i>Langmuir</i> , 2011, 27, 6358-6367.	1.6	98
140	Effect of Zirconia Doping on the Structure and Stability of CaO-Based Sorbents for CO ₂ Capture during Extended Operating Cycles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24804-24812.	1.5	156
141	Sintering Rate and Mechanism of TiO ₂ Nanoparticles by Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11030-11035.	1.5	120
142	Color-Tunable Nanophosphors by Codoping Flame-Made Y ₂ O ₃ with Tb and Eu. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1084-1089.	1.5	81
143	Hybrid, Silica-Coated, Janus-Like Plasmonic-Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 1985-1992.	3.2	158
144	Engineering nanosilver as an antibacterial, biosensor and bioimaging material. <i>Current Opinion in Chemical Engineering</i> , 2011, 1, 3-10.	3.8	154

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145	Continuous flame aerosol synthesis of carbon-coated nano-LiFePO ₄ for Li-ion batteries. <i>Journal of Aerosol Science</i> , 2011, 42, 657-667.	1.8	48
146	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. <i>ChemCatChem</i> , 2011, 3, 1234-1256.	1.8	73
147	Uniform nanoparticles by flame-assisted spray pyrolysis (FASP) of low cost precursors. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2715-2725.	0.8	44
148	Nanosilver on nanostructured silica: Antibacterial activity and Ag surface area. <i>Chemical Engineering Journal</i> , 2011, 170, 547-554.	6.6	118
149	Design of gas-phase synthesis of core-shell particles by computational fluid-aerosol dynamics. <i>AIChE Journal</i> , 2011, 57, 3132-3142.	1.8	26
150	Influence of controlled spatial deposition of Pt and Pd in NO _x storage-reduction catalysts on their efficiency. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 682-689.	10.8	12
151	Structural dependence of the efficiency of functionalization of silica-coated FeO _x magnetic nanoparticles studied by ATR-IR. <i>Applied Surface Science</i> , 2011, 257, 2861-2869.	3.1	16
152	Dispersed Nanoelectrodes for High Performance Gas Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1292, 93.	0.1	0
153	Structure and Strength of Silica-PDMS Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 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. <i>Nano Today</i> , 2010, 5, 48-65.	6.2	89
156	Influence of support acid-base properties on the platinum-catalyzed enantioselective hydrogenation of activated ketones. <i>Journal of Catalysis</i> , 2010, 271, 115-124.	3.1	73
157	Non-Toxic Dry-Coated Nanosilver for Plasmonic Biosensors. <i>Advanced Functional Materials</i> , 2010, 20, 4250-4257.	7.8	119
158	Non-Toxic Dry-Coated Nanosilver for Plasmonic Biosensors. <i>Advanced Functional Materials</i> , 2010, 20, 4249-4249.	7.8	3
159	Aerosol-based technologies in nanoscale manufacturing: from functional materials to devices through core chemical engineering. <i>AIChE Journal</i> , 2010, 56, 3028-3035.	1.8	106
160	Fragmentation and restructuring of soft-agglomerates under shear. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 261-268.	5.0	109
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