

# Sotiris E Pratsinis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326  
papers

21,788  
citations

84  
h-index

132  
g-index

340  
ext. papers

23,851  
ext. citations

6.7  
avg, IF

7.37  
L-index

#	Paper	IF	Citations
326	Selective monitoring of breath isoprene by a portable detector during exercise and at rest. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 357, 131444	8.5	0
325	Flame-made chemoresistive gas sensors and devices. <i>Progress in Energy and Combustion Science</i> , <b>2022</b> , 90, 100992	33.6	1
324	Santoro flame: The volume fraction of soot accounting for its morphology & composition. <i>Combustion and Flame</i> , <b>2022</b> , 240, 112025	5.3	0
323	Handheld Device for Selective Benzene Sensing over Toluene and Xylene. <i>Advanced Science</i> , <b>2021</b> , e2103853	13.5	6
322	Acetone Sensing and Catalytic Conversion by Pd-Loaded SnO. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
321	Monitoring Lipolysis by Sensing Breath Acetone down to Parts-per-Billion. <i>Small Science</i> , <b>2021</b> , 1, 2100004		15
320	Scalable Synthesis of Ultrasmall Metal Oxide Radio-Enhancers Outperforming Gold. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3098-3112	9.6	0
319	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO <sub>2</sub> Catalysts. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14541-14549	3.6	0
318	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14420-14428	16.4	11
317	Spirit Distillation: Monitoring Methanol Formation with a Hand-Held Device. <i>ACS Food Science &amp; Technology</i> , <b>2021</b> , 1, 839-844		5
316	Y-doped ZnO films for acetic acid sensing down to ppb at high humidity. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 327, 128843	8.5	13
315	Determination of the volume fraction of soot accounting for its composition and morphology. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 1189-1196	5.9	8
314	Highly selective gas sensing enabled by filters. <i>Materials Horizons</i> , <b>2021</b> , 8, 661-684	14.4	19
313	Screening Methanol Poisoning with a Portable Breath Detector. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1170-1178	7.8	11
312	The impact of organic carbon on soot light absorption. <i>Carbon</i> , <b>2021</b> , 172, 742-749	10.4	13
311	Precision in Thermal Therapy: Clinical Requirements and Solutions from Nanotechnology. <i>Advanced Therapeutics</i> , <b>2021</b> , 4, 2000193	4.9	0
310	BiO boosts brightness, biocompatibility and stability of Mn-doped Ba(VO) as NIR-II contrast agent. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3038-3046	7.3	0

309	Detecting methanol in hand sanitizers. <i>IScience</i> , <b>2021</b> , 24, 102050	6.1	7
308	A perspective on gas-phase synthesis of nanomaterials: Process design, impact and outlook. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 129884	14.7	7
307	Single-Nanoparticle Thermometry with a Nanopipette. <i>ACS Nano</i> , <b>2020</b> , 14, 7358-7369	16.7	19
306	Selective Formaldehyde detection at ppb in indoor air with a portable sensor. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 399, 123052	12.8	26
305	A pocket-sized device enables detection of methanol adulteration in alcoholic beverages. <i>Nature Food</i> , <b>2020</b> , 1, 351-354	14.4	29
304	Thickness Optimization of Highly Porous Flame-Aerosol Deposited WO Films for NO Sensing at ppb. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
303	Catalytic Filter for Continuous and Selective Ethanol Removal Prior to Gas Sensing. <i>ACS Sensors</i> , <b>2020</b> , 5, 1058-1067	9.2	19
302	Rapid and Selective NH Sensing by Porous CuBr. <i>Advanced Science</i> , <b>2020</b> , 7, 1903390	13.6	21
301	Simultaneous Nanothermometry and Deep-Tissue Imaging. <i>Advanced Science</i> , <b>2020</b> , 7, 2000370	13.6	11
300	Palladium embedded in SnO enhances the sensitivity of flame-made chemoresistive gas sensors. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 96	5.8	17
299	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. <i>Nature Communications</i> , <b>2020</b> , 11, 4008	17.4	30
298	Superior Acetone Selectivity in Gas Mixtures by Catalyst-Filtered Chemoresistive Sensors. <i>Advanced Science</i> , <b>2020</b> , 7, 2001503	13.6	27
297	Light scattering from nanoparticle agglomerates. <i>Powder Technology</i> , <b>2020</b> , 365, 52-59	5.2	19
296	110th Anniversary: Synthesis of Plasmonic Silica-Coated TiN Particles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 16610-16619	3.9	6
295	Highly selective detection of methanol over ethanol by a handheld gas sensor. <i>Nature Communications</i> , <b>2019</b> , 10, 4220	17.4	117
294	Nd-Doped BiVO luminescent nanothermometers of high sensitivity. <i>Chemical Communications</i> , <b>2019</b> , 55, 7147-7150	5.8	29
293	The impact of molecular simulations in gas-phase manufacture of nanomaterials. <i>Current Opinion in Chemical Engineering</i> , <b>2019</b> , 23, 174-183	5.4	6
292	Silica-Coated TiN Particles for Killing Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22550-22560	10.5	25

291	Nanoparticles for Biomedicine: Coagulation During Synthesis and Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2019</b> , 10, 155-174	8.9	16
290	Estimating the internal and surface oxidation of soot agglomerates. <i>Combustion and Flame</i> , <b>2019</b> , 209, 493-499	5.3	19
289	Nanoparticle Filler Content and Shape in Polymer Nanocomposites. <i>KONA Powder and Particle Journal</i> , <b>2019</b> , 36, 3-32	3.4	14
288	Soot light absorption and refractive index during agglomeration and surface growth. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 1177-1184	5.9	24
287	Engineering the Bioactivity of Flame-Made Ceria and Ceria/Bioglass Hybrid Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2830-2839	9.5	20
286	Breath Sensors for Health Monitoring. <i>ACS Sensors</i> , <b>2019</b> , 4, 268-280	9.2	137
285	Highly Selective and Rapid Breath Isoprene Sensing Enabled by Activated Alumina Filter. <i>ACS Sensors</i> , <b>2018</b> , 3, 677-683	9.2	56
284	Mobility and settling rate of agglomerates of polydisperse nanoparticles. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 064703	3.9	5
283	Facile meltPEGylation of flame-made luminescent Tb-doped yttrium oxide particles: hemocompatibility, cellular uptake and comparison to silica. <i>Chemical Communications</i> , <b>2018</b> , 54, 2914-2917	5.8	9
282	Pressure- and Temperature-Induced Monoclinic-to-Orthorhombic Phase Transition in Silicalite-1. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 6217-6229	3.8	4
281	Sniffing Entrapped Humans with Sensor Arrays. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4940-4945	7.8	72
280	Reactive polycyclic aromatic hydrocarbon dimerization drives soot nucleation. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10926-10938	3.6	60
279	Variability of particle configurations achievable by 2-nozzle flame syntheses of the Au-Pd-TiO <sub>2</sub> system and their catalytic behaviors in the selective hydrogenation of acetylene. <i>Applied Catalysis A: General</i> , <b>2018</b> , 549, 1-7	5.1	25
278	Reduced Magnetic Coupling in Ultrasmall Iron Oxide T MRI Contrast Agents.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 783-791	4.1	8
277	Single-Step Fabrication of Polymer Nanocomposite Films. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
276	Coercivity Determines Magnetic Particle Heating. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800287	10.1	11
275	Single Pd atoms on TiO <sub>2</sub> dominate photocatalytic NO <sub>x</sub> removal. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 127-134	21.8	58
274	Zeolite membranes for highly selective formaldehyde sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 916-923	8.5	65

273	Orthogonal gas sensor arrays by chemoresistive material design. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 563	5.8	28
272	Guiding Ketogenic Diet with Breath Acetone Sensors. <i>Sensors</i> , <b>2018</b> , 18,	3.8	44
271	Impact of Humidity on Silica Nanoparticle Agglomerate Morphology and Size Distribution. <i>Langmuir</i> , <b>2018</b> , 34, 8532-8541	4	14
270	The effect of settling on cytotoxicity evaluation of SiO <sub>2</sub> nanoparticles. <i>Journal of Aerosol Science</i> , <b>2017</b> , 108, 56-66	4.3	15
269	Process Design for Size-Controlled Flame Spray Synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> and Electrochemical Performance. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , <b>2017</b> , 38, 51-66		13
268	Nanogenerator power output: influence of particle size and crystallinity of BaTiO. <i>Nanotechnology</i> , <b>2017</b> , 28, 275705	3.4	12
267	In Situ Monitoring of the Deposition of Flame-Made Chemoresistive Gas-Sensing Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23926-23933	9.5	21
266	Developing a tissue glue by engineering the adhesive and hemostatic properties of metal oxide nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 8418-8426	7.7	36
265	Deep Tissue Imaging with Highly Fluorescent Near-Infrared Nanocrystals after Systematic Host Screening. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8158-8166	9.6	13
264	Noninvasive Body Fat Burn Monitoring from Exhaled Acetone with Si-doped WO <sub>3</sub> -sensing Nanoparticles. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10578-10584	7.8	69
263	Metal-support interactions in catalysts for environmental remediation. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 2076-2092	7.1	54
262	The silanol content and in vitro cytolytic activity of flame-made silica. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 95-106	9.3	19
261	Surface Composition and Crystallinity of Coalescing Silver-Gold Nanoparticles. <i>ACS Nano</i> , <b>2017</b> , 11, 11653-11660	3.1	63
260	Flame synthesis of functional nanostructured materials and devices: Surface growth and aggregation. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 29-50	5.9	89
259	Atomically dispersed Pd on nanostructured TiO <sub>2</sub> for NO removal by solar light. <i>AIChE Journal</i> , <b>2017</b> , 63, 139-146	3.6	25
258	Morphology and mobility diameter of carbonaceous aerosols during agglomeration and surface growth. <i>Carbon</i> , <b>2017</b> , 121, 527-535	10.4	35
257	Coagulation of Agglomerates Consisting of Polydisperse Primary Particles. <i>Langmuir</i> , <b>2016</b> , 32, 9276-85	4	32
256	Thermal annealing dynamics of carbon-coated LiFePO <sub>4</sub> nanoparticles studied by in-situ analysis. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 242, 96-102	3.3	14

255	Selective sensing of isoprene by Ti-doped ZnO for breath diagnostics. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 5358-5366	7.3	76
254	Dissolution and storage stability of nanostructured calcium carbonates and phosphates for nutrition. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	3
253	Crystallinity dynamics of gold nanoparticles during sintering or coalescence. <i>AIChE Journal</i> , <b>2016</b> , 62, 589-598	3.6	44
252	Gas-phase manufacturing of nanoparticles: Molecular dynamics and mesoscale simulations. <i>Particulate Science and Technology</i> , <b>2016</b> , 34, 483-493	2	10
251	Highly scalable production of uniformly-coated superparamagnetic nanoparticles for triggered drug release from alginate hydrogels. <i>RSC Advances</i> , <b>2016</b> , 6, 21503-21510	3.7	16
250	Pd Subnano-Clusters on TiO <sub>2</sub> for Solar-Light Removal of NO. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1887-1893	13.1	79
249	E-Nose Sensing of Low-ppb Formaldehyde in Gas Mixtures at High Relative Humidity for Breath Screening of Lung Cancer?. <i>ACS Sensors</i> , <b>2016</b> , 1, 528-535	9.2	126
248	Selective sensing of NH <sub>3</sub> by Si-doped $\gamma$ -MoO <sub>3</sub> for breath analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 266-273	8.5	131
247	Sampling and dilution of nanoparticles at high temperature. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 591-604	3.4	20
246	In situ measurement of conductivity during nanocomposite film deposition. <i>Applied Surface Science</i> , <b>2016</b> , 371, 329-336	6.7	7
245	In Situ EPR Study of the Redox Properties of CuO/FeO <sub>2</sub> Catalysts for Preferential CO Oxidation (PROX). <i>ACS Catalysis</i> , <b>2016</b> , 6, 3520-3530	13.1	76
244	Synthesis of catalytic materials in flames: opportunities and challenges. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3053-68	58.5	111
243	Silica-Coated Nonstoichiometric Nano Zn-Ferrites for Magnetic Resonance Imaging and Hyperthermia Treatment. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2698-2706	10.1	20
242	Aggregate characteristics accounting for the evolving fractal-like structure during coagulation and sintering. <i>Journal of Aerosol Science</i> , <b>2015</b> , 89, 58-68	4.3	16
241	Morphology and Crystallinity of Coalescing Nanosilver by Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10116-10122	3.8	34
240	Enhanced Ag(+) Ion Release from Aqueous Nanosilver Suspensions by Absorption of Ambient CO <sub>2</sub> . <i>Langmuir</i> , <b>2015</b> , 31, 5284-90	4	17
239	Rapid synthesis of flexible conductive polymer nanocomposite films. <i>Nanotechnology</i> , <b>2015</b> , 26, 125601	3.4	16
238	Oxidative Dehydrogenation of Ethane with CO <sub>2</sub> over Flame-Made Ga-Loaded TiO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2015</b> , 5, 690-702	13.1	64

237	Breath analysis by nanostructured metal oxides as chemo-resistive gas sensors. <i>Materials Today</i> , <b>2015</b> , 18, 163-171	21.8	310
236	Battery Performance: Design and Fabrication of Microspheres with Hierarchical Internal Structure for Tuning Battery Performance (Adv. Sci. 6/2015). <i>Advanced Science</i> , <b>2015</b> , 2,	13.6	78
235	Monitoring breath markers under controlled conditions. <i>Journal of Breath Research</i> , <b>2015</b> , 9, 047101	3.1	35
234	Coagulation-agglomeration of fractal-like particles: structure and self-preserving size distribution. <i>Langmuir</i> , <b>2015</b> , 31, 1320-7	4	57
233	Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe <sub>2</sub> O <sub>3</sub> Nanoaggregates. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2818-2827	15.6	86
232	Visible-light active black TiO <sub>2</sub> -Ag/TiO <sub>x</sub> particles. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 154-155, 9-15	21.8	37
231	An integrated microrobotic platform for on-demand, targeted therapeutic interventions. <i>Advanced Materials</i> , <b>2014</b> , 26, 952-7	24	200
230	Cancer Treatment: Photothermal Killing of Cancer Cells by the Controlled Plasmonic Coupling of Silica-Coated Au/Fe <sub>2</sub> O <sub>3</sub> Nanoaggregates (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2817-2817	15.6	
229	Plasmonic biocompatible silver-gold alloyed nanoparticles. <i>Chemical Communications</i> , <b>2014</b> , 50, 13559-63	3.8	36
228	Annealing dynamics of WO <sub>3</sub> by in situ XRD. <i>Materials Research Bulletin</i> , <b>2014</b> , 59, 199-204	5.1	12
227	Oxidative coupling of methane on flame-made Mn-Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> : Influence of catalyst composition and reaction conditions. <i>Applied Catalysis A: General</i> , <b>2014</b> , 484, 97-107	5.1	31
226	Effect of Ba and K addition and controlled spatial deposition of Rh in Rh/Al <sub>2</sub> O <sub>3</sub> catalysts for CO <sub>2</sub> hydrogenation. <i>Applied Catalysis A: General</i> , <b>2014</b> , 477, 93-101	5.1	51
225	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10734-10742	3.9	94
224	Agglomerates and aggregates of nanoparticles made in the gas phase. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 71-90	4.6	94
223	Air Entrainment During Flame Aerosol Synthesis of Nanoparticles. <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 1195-1206	3.4	8
222	Towards carbon-free flame spray synthesis of homogeneous oxide nanoparticles from aqueous solutions. <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 632-642	4.6	15
221	Restructuring of aggregates and their primary particle size distribution during sintering. <i>AIChE Journal</i> , <b>2013</b> , 59, 1118-1126	3.6	23
220	Correlations between blood glucose and breath components from portable gas sensors and PTR-TOF-MS. <i>Journal of Breath Research</i> , <b>2013</b> , 7, 037110	3.1	78

219	Toxicity of silver nanoparticles in macrophages. <i>Small</i> , <b>2013</b> , 9, 2576-84	11	152
218	Size controlled CuO nanoparticles for Li-ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 415-422	8.9	67
217	Nanoparticulate Tungsten Oxide for Catalytic Epoxidations. <i>ACS Catalysis</i> , <b>2013</b> , 3, 321-327	13.1	37
216	A Safer Formulation Concept for Flame-Generated Engineered Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 843-857	8.3	50
215	Thermal Energy Dissipation by SiO <sub>2</sub> -Coated Plasmonic-Superparamagnetic Nanoparticles in Alternating Magnetic Fields. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4603-4612	9.6	17
214	Flexible, Multifunctional, Magnetically Actuated Nanocomposite Films. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 34-41	15.6	33
213	Silica Coated Multifunctional Plasmonic Nanoparticles for Theranostics. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1506, 1		
212	Gas-phase Synthesis of Silver Nanoparticles for Plasmonic Biosensors. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1509, 1		2
211	Multimineral nutritional supplements in a nano-CaO matrix. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 1129-1138	13.5	5
210	Homogeneous Iron Phosphate Nanoparticles by Combustion of Sprays. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7891-7900	3.9	16
209	Quantifying the origin of released Ag <sup>+</sup> ions from nanosilver. <i>Langmuir</i> , <b>2012</b> , 28, 15929-36	4	141
208	Green, Silica-Coated Monoclinic Y <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> Nanophosphors: Flame Synthesis and Characterization. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 4493-4499	3.8	63
207	Breath acetone monitoring by portable Si:WO <sub>3</sub> gas sensors. <i>Analytica Chimica Acta</i> , <b>2012</b> , 738, 69-75	6.6	213
206	Aggregate Morphology Evolution by Sintering: Number & Diameter of Primary Particles. <i>Journal of Aerosol Science</i> , <b>2012</b> , 46, 7-19	4.3	103
205	Mass-mobility characterization of flame-made ZrO <sub>2</sub> aerosols: primary particle diameter and extent of aggregation. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 387, 12-23	9.3	63
204	Antioxidant and antiradical SiO <sub>2</sub> nanoparticles covalently functionalized with gallic acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 6609-17	9.5	94
203	The Structure of Agglomerates consisting of Polydisperse Particles. <i>Aerosol Science and Technology</i> , <b>2012</b> , 46, 347-353	3.4	77
202	Design of nanomaterial synthesis by aerosol processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2012</b> , 3, 103-27	8.9	109



201	Fluid-particle dynamics during combustion spray aerosol synthesis of ZrO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2012</b> , 191, 491-502	14.7	72
200	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> , <b>2012</b> , 113-114, 160-171	21.8	17
199	Composite nanosilver structures suitable for plasmonic biosensors. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1416, 25		1
198	Color-tunable nanophosphors by co-doping flame-made YO with Tb and Eu. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1084-1089	3.8	78
197	Hybrid, silica-coated, Janus-like plasmonic-magnetic nanoparticles. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1985-1992	14.0	
196	Engineering nanosilver as an antibacterial, biosensor and bioimaging material. <i>Current Opinion in Chemical Engineering</i> , <b>2011</b> , 1, 3-10	5.4	133
195	Continuous flame aerosol synthesis of carbon-coated nano-LiFePO <sub>4</sub> for Li-ion batteries. <i>Journal of Aerosol Science</i> , <b>2011</b> , 42, 657-667	4.3	36
194	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. <i>ChemCatChem</i> , <b>2011</b> , 3, 1234-1256	5.2	59
193	Uniform nanoparticles by flame-assisted spray pyrolysis (FASP) of low cost precursors. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 2715-2725	2.3	40
192	Nanosilver on nanostructured silica: Antibacterial activity and Ag surface area. <i>Chemical Engineering Journal</i> , <b>2011</b> , 170, 547-554	14.7	91
191	Design of Gas-phase Synthesis of Core-Shell Particles by Computational Fluid - Aerosol Dynamics. <i>AIChE Journal</i> , <b>2011</b> , 57, 3132-3142	3.6	19
190	Effect of solvent composition on oxide morphology during flame spray pyrolysis of metal nitrates. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 9246-52	3.6	65
189	Design of Turbulent Flame Aerosol Reactors by Mixing-Limited Fluid Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 3159-3168	3.9	23
188	Multiparticle sintering dynamics: from fractal-like aggregates to compact structures. <i>Langmuir</i> , <b>2011</b> , 27, 6358-67	4	84
187	Effect of Zirconia Doping on the Structure and Stability of CaO-Based Sorbents for CO <sub>2</sub> Capture during Extended Operating Cycles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24804-24812	3.8	133
186	Sintering Rate and Mechanism of TiO Nanoparticles by Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11030-11035	3.8	95
185	Influence of controlled spatial deposition of Pt and Pd in NO <sub>x</sub> storage-reduction catalysts on their efficiency. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 682-689	21.8	12
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157	Role of Gas/Aerosol Mixing during in Situ Coating of Flame-Made Titania Particles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 85-92	3.9	33
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38	Self-preserving size distributions of agglomerates. <i>Journal of Aerosol Science</i> , <b>1995</b> , 26, 175-185	4.3	170
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34	Competition between TiCl <sub>4</sub> hydrolysis and oxidation and its effect on product TiO <sub>2</sub> powder. <i>AIChE Journal</i> , <b>1994</b> , 40, 1183-1192	3.6	52
33	Monte Carlo Simulation of Particle Coagulation and Sintering. <i>Aerosol Science and Technology</i> , <b>1994</b> , 21, 83-93	3.4	59
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23	Monte Carlo Simulation of Gas Phase Particle Formation and Sintering. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 278, 261		
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13	Gas phase production of particles in reactive turbulent flows. <i>Journal of Aerosol Science</i> , <b>1991</b> , 22, 637-653	4.5	147
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