

KIKUO OKUYAMA

List of Publications by Year in descending order

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507
papers

19,995
citations

10389

72
h-index

22832

112
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508
all docs

508
docs citations

508
times ranked

16061
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in developing spray-drying methods for the production of controlled morphology particles: From the nanometer to submicrometer size ranges. <i>Advanced Powder Technology</i> , 2011, 22, 1-19.	4.1	596
2	Preparation of nanoparticles via spray route. <i>Chemical Engineering Science</i> , 2003, 58, 537-547.	3.8	550
3	Correlation between particle size/domain structure and magnetic properties of highly crystalline Fe ₃ O ₄ nanoparticles. <i>Scientific Reports</i> , 2017, 7, 9894.	3.3	396
4	Correlations between Crystallite/Particle Size and Photoluminescence Properties of Submicrometer Phosphors. <i>Chemistry of Materials</i> , 2007, 19, 1723-1730.	6.7	339
5	Synthesis of spherical mesoporous silica nanoparticles with nanometer-size controllable pores and outer diameters. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 447-453.	4.4	321
6	Control of the morphology of nanostructured particles prepared by the spray drying of a nanoparticle sol. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 296-303.	9.4	293
7	Unipolar and bipolar diffusion charging of ultrafine aerosol particles. <i>Journal of Aerosol Science</i> , 1985, 16, 109-123.	3.8	288
8	Enhanced Photocatalytic Performance of Brookite TiO ₂ Macroporous Particles Prepared by Spray Drying with Colloidal Templating. <i>Advanced Materials</i> , 2007, 19, 1408-1412.	21.0	255
9	Nanoparticle filtration by electrospun polymer fibers. <i>Chemical Engineering Science</i> , 2007, 62, 4751-4759.	3.8	253
10	Role of C ₆₀ Configurations in the Photoluminescence of Graphene Quantum Dots Synthesized by a Hydrothermal Route. <i>Scientific Reports</i> , 2016, 6, 21042.	3.3	230
11	YAG:Ce phosphor particles prepared by ultrasonic spray pyrolysis. <i>Materials Research Bulletin</i> , 2000, 35, 789-798.	5.2	213
12	Production of ultrafine metal oxide aerosol particles by thermal decomposition of metal alkoxide vapors. <i>AIChE Journal</i> , 1986, 32, 2010-2019.	3.6	195
13	In Situ Production of Spherical Silica Particles Containing Self-Organized Mesopores. <i>Nano Letters</i> , 2001, 1, 231-234.	9.1	182
14	Preparation of functional nanostructured particles by spray drying. <i>Advanced Powder Technology</i> , 2006, 17, 587-611.	4.1	169
15	Facile Synthesis of New Full-Color-Emitting BCNO Phosphors with High Quantum Efficiency. <i>Advanced Materials</i> , 2008, 20, 3235-3238.	21.0	163
16	Experimental investigation of nanoparticle dispersion by beads milling with centrifugal bead separation. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 535-540.	9.4	160
17	PREPARATION OF ZnS NANOPARTICLES BY ELECTROSPRAY PYROLYSIS. <i>Journal of Aerosol Science</i> , 2000, 31, 121-136.	3.8	156
18	Novel Route to Nanoparticle Synthesis by Salt-Assisted Aerosol Decomposition. <i>Advanced Materials</i> , 2001, 13, 1579.	21.0	154

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19	Binary nucleation in acid-water systems. II. Sulfuric acid-water and a comparison with methanesulfonic acid-water. <i>Journal of Chemical Physics</i> , 1991, 94, 6842-6850.	3.0	152
20	An experimental and modeling investigation of particle production by spray pyrolysis using a laminar flow aerosol reactor. <i>Journal of Materials Research</i> , 2000, 15, 733-743.	2.6	150
21	Investigation on the Correlations between Droplet and Particle Size Distribution in Ultrasonic Spray Pyrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1650-1659.	3.7	149
22	Generating Blue and Red Luminescence from ZnO/Poly(ethylene glycol) Nanocomposites Prepared Using an In-Situ Method. <i>Advanced Functional Materials</i> , 2003, 13, 800-804.	14.9	140
23	Scaling law on particle-to-fiber formation during electrospinning. <i>Polymer</i> , 2009, 50, 4935-4943.	3.8	139
24	Gd ₂ O ₃ :Eu phosphor particles with sphericity, submicron size and non-aggregation characteristics. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 379-384.	4.0	138
25	Morphology optimization of polymer nanofiber for applications in aerosol particle filtration. <i>Separation and Purification Technology</i> , 2010, 75, 340-345.	7.9	137
26	Sizing of Colloidal Nanoparticles by Electro spray and Differential Mobility Analyzer Methods. <i>Langmuir</i> , 2002, 18, 4584-4591.	3.5	124
27	Nickel and nickel oxide nanoparticles prepared from nickel nitrate hexahydrate by a low pressure spray pyrolysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 111, 69-76.	3.5	124
28	Evaluation of Sintering of Nanometer-Sized Titania Using Aerosol Method. <i>Aerosol Science and Technology</i> , 1995, 23, 183-200.	3.1	122
29	Thermal stability of crystalline thin films. <i>Thin Solid Films</i> , 1998, 312, 357-361.	1.8	114
30	Novel rare-earth-free tunable-color-emitting BCNO phosphors. <i>Journal of Materials Chemistry</i> , 2011, 21, 5183.	6.7	114
31	Photoluminescence characteristics of YAG:Tb phosphor particles with spherical morphology and non-aggregation. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1855-1858.	4.0	111
32	Direct synthesis of carbon quantum dots in aqueous polymer solution: one-pot reaction and preparation of transparent UV-blocking films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5187-5194.	10.3	111
33	Evaluation of the change in the morphology of gold nanoparticles during sintering. <i>Journal of Aerosol Science</i> , 2002, 33, 1061-1074.	3.8	109
34	Determination of Particle Size Distribution of Ultra-Fine Aerosols Using a Differential Mobility Analyzer. <i>Aerosol Science and Technology</i> , 1985, 4, 209-225.	3.1	107
35	Surface functionalization for dispersing and stabilizing hexagonal boron nitride nanoparticle by bead milling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 388, 49-58.	4.7	107
36	Formation of Highly Ordered Nanostructures by Drying Micrometer Colloidal Droplets. <i>ACS Nano</i> , 2010, 4, 4717-4724.	14.6	106

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37	Nanostructuring strategies in functional fine-particle synthesis towards resource and energy saving applications. <i>Advanced Powder Technology</i> , 2014, 25, 3-17.	4.1	106
38	Control of size and morphology in NiO particles prepared by a low-pressure spray pyrolysis. <i>Materials Research Bulletin</i> , 2003, 38, 1819-1827.	5.2	105
39	Effect of reaction temperature on CVD-made TiO ₂ primary particle diameter. <i>Chemical Engineering Science</i> , 2003, 58, 3327-3335.	3.8	105
40	Controllability of Pore Size and Porosity on Self-Organized Porous Silica Particles. <i>Nano Letters</i> , 2002, 2, 389-392.	9.1	104
41	Fabrication of a large area monolayer of silica particles on a sapphire substrate by a spin coating method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 297, 71-78.	4.7	104
42	CuO/WO ₃ and Pt/WO ₃ nanocatalysts for efficient pollutant degradation using visible light irradiation. <i>Chemical Engineering Journal</i> , 2012, 180, 323-329.	12.7	104
43	Size-dependent electrical constriction resistance for contacts of arbitrary size: from Sharvin to Holm limits. <i>Materials Science in Semiconductor Processing</i> , 1999, 2, 321-327.	4.0	103
44	Size distribution measurement of nanometer-sized aerosol particles using dma under low-pressure conditions. <i>Journal of Aerosol Science</i> , 1997, 28, 193-206.	3.8	99
45	Effect of Brownian diffusion on electrical classification of ultrafine aerosol particles in differential mobility analyzer.. <i>Journal of Chemical Engineering of Japan</i> , 1986, 19, 401-407.	0.6	98
46	Filtration efficiency of a fibrous filter for nanoparticles. <i>Journal of Nanoparticle Research</i> , 2006, 8, 215-221.	1.9	94
47	Design of Pyrrolic-N-Rich Carbon Dots with Absorption in the First Near-Infrared Window for Photothermal Therapy. <i>ACS Applied Nano Materials</i> , 2018, 1, 2368-2375.	5.0	94
48	High luminance YAG:Ce nanoparticles fabricated from urea added aqueous precursor by flame process. <i>Journal of Alloys and Compounds</i> , 2008, 463, 350-357.	5.5	92
49	Synthesis of non-agglomerated nanoparticles by an electrospray assisted chemical vapor deposition (ES-CVD) method. <i>Journal of Aerosol Science</i> , 2003, 34, 869-881.	3.8	91
50	Condensational Growth of Ultrafine Aerosol Particles in a New Particle Size Magnifier. <i>Aerosol Science and Technology</i> , 1984, 3, 353-366.	3.1	90
51	Preparation of nonaggregated Y ₂ O ₃ : Eu phosphor particles by spray pyrolysis method. <i>Journal of Materials Research</i> , 1999, 14, 2611-2615.	2.6	90
52	Model on transport phenomena and epitaxial growth of silicon thin film in SiHCl ₃ -H ₂ system under atmospheric pressure. <i>Journal of Crystal Growth</i> , 1996, 169, 61-72.	1.5	89
53	Sintering of Polydisperse Nanometer-Sized Agglomerates. <i>Aerosol Science and Technology</i> , 1997, 27, 422-438.	3.1	88
54	Change in size distribution of ultrafine aerosol particles undergoing Brownian coagulation. <i>Journal of Colloid and Interface Science</i> , 1984, 101, 98-109.	9.4	87

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55	Luminescence Characteristics of $\text{Y}_2\text{SiO}_5:\text{Tb}$ Phosphor Particles Directly Prepared by the Spray Pyrolysis Method. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1227-1230.	2.9	87
56	Development of a mixing type condensation nucleus counter. <i>Journal of Aerosol Science</i> , 1982, 13, 231-240.	3.8	86
57	Controlled size polymer particle production via electrohydrodynamic atomization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 311, 67-76.	4.7	85
58	Transient nature of graphene quantum dot formation via a hydrothermal reaction. <i>RSC Advances</i> , 2014, 4, 55709-55715.	3.6	84
59	Condensation of supersaturated vapors on monovalent and divalent ions of varying size. <i>Journal of Chemical Physics</i> , 1997, 107, 1576-1585.	3.0	83
60	Functional Nanostructured Silica Powders Derived from Colloidal Suspensions by Sol Spraying. <i>Journal of Nanoparticle Research</i> , 2001, 3, 263-270.	1.9	83
61	Preparation of high coercivity magnetic FePt nanoparticles by liquid process. <i>Journal of Applied Physics</i> , 2003, 94, 6807-6811.	2.5	83
62	Transient kinetics of nucleation. <i>Physical Review A</i> , 1990, 41, 2101-2108.	2.5	81
63	Synthesis and Photoluminescence of Spherical ZnS:Mn^{2+} Particles. <i>Chemistry of Materials</i> , 2002, 14, 4969-4974.	6.7	81
64	Stable photoluminescence of zinc oxide quantum dots in silica nanoparticles matrix prepared by the combined sol-gel and spray drying method. <i>Journal of Applied Physics</i> , 2001, 89, 6431-6434.	2.5	80
65	Particle loss of aerosols with particle diameters between 6 and 2000 nm in stirred tank. <i>Journal of Colloid and Interface Science</i> , 1986, 110, 214-223.	9.4	79
66	Metal-support interactions in catalysts for environmental remediation. <i>Environmental Science: Nano</i> , 2017, 4, 2076-2092.	4.3	79
67	Highly conductive nano-sized Magnéli phases titanium oxide (TiO_x). <i>Scientific Reports</i> , 2017, 7, 3646.	3.3	79
68	One-step synthesis of titanium oxide nanoparticles by spray pyrolysis of organic precursors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 123, 194-202.	3.5	77
69	Binary nucleation in acid-water systems. I. Methanesulfonic acid-water. <i>Journal of Chemical Physics</i> , 1991, 94, 6827-6841.	3.0	76
70	Synthesis of CeO_2 nanoparticles by salt-assisted ultrasonic aerosol decomposition. <i>Journal of Materials Chemistry</i> , 2001, 11, 2925-2927.	6.7	74
71	Beads Mill-Assisted Synthesis of Poly Methyl Methacrylate (PMMA)- TiO_2 Nanoparticle Composites. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2597-2604.	3.7	74
72	Particle generation in a chemical vapor deposition process with seed particles. <i>AIChE Journal</i> , 1990, 36, 409-419.	3.6	73

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73	Kinetics of nitrogen-doped carbon dot formation via hydrothermal synthesis. <i>New Journal of Chemistry</i> , 2016, 40, 5555-5561.	2.8	73
74	Synthesis of ZnO/SiO ₂ nanocomposites emitting specific luminescence colors. <i>Optical Materials</i> , 2004, 26, 95-100.	3.6	71
75	Mesopore-Free Hollow Silica Particles with Controllable Diameter and Shell Thickness via Additive-Free Synthesis. <i>Langmuir</i> , 2012, 28, 8616-8624.	3.5	70
76	The crystallinity and the photoluminescent properties of spray pyrolyzed ZnO phosphor containing Eu ²⁺ and Eu ³⁺ ions. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1843-1847.	4.0	69
77	Dispersion Stability Enhancement of Titania Nanoparticles in Organic Solvent Using a Bead Mill Process. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6916-6922.	3.7	68
78	Synthesis of spherical macroporous WO ₃ particles and their high photocatalytic performance. <i>Chemical Engineering Science</i> , 2013, 101, 523-532.	3.8	68
79	Direct synthesis of highly crystalline transparent conducting oxide nanoparticles by low pressure spray pyrolysis. <i>Advanced Powder Technology</i> , 2009, 20, 203-209.	4.1	66
80	Influences of Porous Structurization and Pt Addition on the Improvement of Photocatalytic Performance of WO ₃ Particles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3009-3017.	8.0	66
81	Bipolar Charging of Aerosol Nanoparticles by a Soft X-ray Photoionizer.. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 786-793.	0.6	64
82	Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning. <i>Nanotechnology</i> , 2008, 19, 145603.	2.6	64
83	Verification of slip flow in nanofiber filter media through pressure drop measurement at low-pressure conditions. <i>Separation and Purification Technology</i> , 2016, 159, 100-107.	7.9	64
84	Low-Temperature Crystallization of Barium Ferrite Nanoparticles by a Sodium Citrate-Aided Synthetic Process. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10175-10180.	3.1	63
85	In Situ Synthesis of Polymer Nanocomposite Electrolytes Emitting a High Luminescence with a Tunable Wavelength. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1957-1961.	2.6	61
86	Synthesis of Dual-Size Cellulose/Polyvinylpyrrolidone Nanofiber Composites via One-Step Electrospinning Method for High-Performance Air Filter. <i>Langmuir</i> , 2017, 33, 6127-6134.	3.5	61
87	Experimental studies of ion-induced nucleation. <i>Journal of Aerosol Science</i> , 1992, 23, 327-337.	3.8	60
88	Highly charging of nanoparticles through electrospray of nanoparticle suspension. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 135-140.	9.4	60
89	Production of morphology-controllable porous hyaluronic acid particles using a spray-drying method. <i>Acta Biomaterialia</i> , 2009, 5, 1027-1034.	8.3	60
90	Synthesis of additive-free cationic polystyrene particles with controllable size for hollow template applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 396, 96-105.	4.7	60

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91	Response characteristics for four different condensation nucleus counters to particles in the 3-50 nm diameter range. <i>Journal of Aerosol Science</i> , 1985, 16, 443-456.	3.8	59
92	Size Distribution Change of Titania Nano-Particle Agglomerates Generated by Gas Phase Reaction, Agglomeration, and Sintering. <i>Aerosol Science and Technology</i> , 2001, 35, 929-947.	3.1	59
93	Effects of Graphene in Dye-Sensitized Solar Cells Based on Nitrogen-Doped TiO ₂ Composite. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16552-16559.	3.1	59
94	Synthesis and evaluation of straight and bead-free nanofibers for improved aerosol filtration. <i>Chemical Engineering Science</i> , 2015, 137, 947-954.	3.8	59
95	Homogeneous and heterogeneous nucleation in a laminar flow aerosol generator. <i>Journal of Colloid and Interface Science</i> , 1987, 119, 491-504.	9.4	58
96	Preparation of microencapsulated powders by an aerosol spray method and their optical properties. <i>Advanced Powder Technology</i> , 2003, 14, 349-367.	4.1	57
97	Chemical process of silicon epitaxial growth in a SiHCl ₃ -H ₂ system. <i>Journal of Crystal Growth</i> , 1999, 207, 77-86.	1.5	56
98	Preparation of size-controlled tungsten oxide nanoparticles and evaluation of their adsorption performance. <i>Materials Research Bulletin</i> , 2010, 45, 165-173.	5.2	56
99	Nanometer-Sized Particle Formation from NH ₃ /SO ₂ /H ₂ O/Air Mixtures by Ionizing Irradiation. <i>Aerosol Science and Technology</i> , 1998, 29, 111-125.	3.1	54
100	Design of a highly ordered and uniform porous structure with multisized pores in film and particle forms using a template-driven self-assembly technique. <i>Acta Materialia</i> , 2010, 58, 282-289.	7.9	54
101	Onset of electrical conduction in isotropic conductive adhesives: a general theory. <i>Materials Science in Semiconductor Processing</i> , 1999, 2, 309-319.	4.0	53
102	Nanoparticle assembly on patterned \pm surfaces from electrospray of colloidal dispersion. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 124-130.	9.4	53
103	Synthesis of composite WO ₃ /TiO ₂ nanoparticles by flame-assisted spray pyrolysis and their photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2014, 591, 121-126.	5.5	53
104	Copper and nitrogen doping on TiO ₂ photoelectrodes and their functions in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 306, 764-771.	7.8	53
105	Performance Evaluation of an Improved Particle Size Magnifier (PSM) for Single Nanoparticle Detection. <i>Aerosol Science and Technology</i> , 2003, 37, 791-803.	3.1	52
106	Self-Assembly of Colloidal Nanoparticles Inside Charged Droplets during Spray-Drying in the Fabrication of Nanostructured Particles. <i>Langmuir</i> , 2013, 29, 13152-13161.	3.5	52
107	Nanometer to Submicrometer Magnesium Fluoride Particles with Controllable Morphology. <i>Langmuir</i> , 2010, 26, 12260-12266.	3.5	51
108	Direct Preparation of Uniformly-Distributed YBa ₂ Cu ₃ O _{7-x} Powders by Spray-Pyrolysis. <i>Japanese Journal of Applied Physics</i> , 1988, 27, L1086-L1088.	1.5	50

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109	Continuous Single-Step Fabrication of Nonaggregated, Size-Controlled and Cubic Nanocrystalline Y ₂ O ₃ :Eu ³⁺ +Phosphors Using Flame Spray Pyrolysis. Japanese Journal of Applied Physics, 2004, 43, 3535-3539.	1.5	50
110	Simulation and experimental study of spray pyrolysis of polydispersed droplets. Journal of Materials Research, 2007, 22, 1888-1898.	2.6	50
111	Rapid Synthesis of Non-Aggregated Fine Chlorapatite Blue Phosphor Powders with High Quantum Efficiency. Advanced Materials, 2008, 20, 3422-3426.	21.0	50
112	Intense green and yellow emissions from electrospun BCNO phosphor nanofibers. Journal of Materials Chemistry, 2011, 21, 12629.	6.7	50
113	Direct white light emission from a rare-earth-free aluminium-boron-carbon oxynitride phosphor. Journal of Materials Chemistry C, 2014, 2, 4297-4303.	5.5	50
114	Size Change of Very Fine Silver Agglomerates by Sintering in a Heated Flow.. Journal of Chemical Engineering of Japan, 1994, 27, 795-802.	0.6	49
115	Electrical conduction of anisotropic conductive adhesives: effect of size distribution of conducting filler particles. Materials Science in Semiconductor Processing, 1999, 2, 263-269.	4.0	49
116	Bipolar diffusion charging for aerosol nanoparticle measurement using a soft X-ray charger. Journal of Aerosol Science, 2005, 36, 813-829.	3.8	49
117	Hollow Silica as an Optically Transparent and Thermally Insulating Polymer Additive. Langmuir, 2016, 32, 338-345.	3.5	49
118	Gas-Phase Nucleation in GaAs Thin Film Preparation by Metal Organic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 1992, 31, 1-11.	1.5	48
119	Homogeneous Nucleation by Continuous Mixing of High Temperature Vapor with Room Temperature Gas. Aerosol Science and Technology, 1987, 6, 15-27.	3.1	47
120	Biopersistence of Inhaled Nickel Oxide Nanoparticles in Rat Lung. Inhalation Toxicology, 2007, 19, 55-58.	1.6	47
121	Development and Evaluation of an Aerosol Generation and Supplying System for Inhalation Experiments of Manufactured Nanoparticles. Environmental Science & Technology, 2009, 43, 5529-5534.	10.0	47
122	Morphology control of hierarchical porous carbon particles from phenolic resin and polystyrene latex template via aerosol process. Carbon, 2015, 84, 281-289.	10.3	47
123	Synthesis of Single Crystalline ZnO Nanoparticles by Salt-Assisted Spray Pyrolysis. Journal of Nanoparticle Research, 2003, 5, 47-53.	1.9	45
124	Photoluminescence Optimization of Luminescent Nanocomposites Fabricated by Spray Pyrolysis of a Colloid-Solution Precursor. Journal of the Electrochemical Society, 2007, 154, J121.	2.9	45
125	Enhancement of the thermal stability and mechanical properties of a PMMA/aluminum trihydroxide composite synthesized via bead milling. Powder Technology, 2010, 204, 145-153.	4.2	45
126	Recent Progress in Nanoparticle Dispersion Using Bead Mill. KONA Powder and Particle Journal, 2017, 34, 3-23.	1.7	44

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127	Nanoparticles of a doped oxide phosphor prepared by direct-spray pyrolysis. Journal of Materials Research, 2004, 19, 3534-3539.	2.6	43
128	Formation and Luminescence Enhancement of Agglomerate-Free YAG:Ce ³⁺ Submicrometer Particles by Flame-Assisted Spray Pyrolysis. Journal of the Electrochemical Society, 2007, 154, J91.	2.9	43
129	Fabrication and Characterization of a Yellow-Emitting BCNO Phosphor for White Light-Emitting Diodes. Electrochemical and Solid-State Letters, 2009, 12, J33.	2.2	43
130	Growth of Aerosol Particles by Condensation. Industrial & Engineering Chemistry Fundamentals, 1976, 15, 37-41.	0.7	42
131	Re-entrainment of small aggregate particles from a plane surface by air stream.. Journal of Chemical Engineering of Japan, 1980, 13, 143-147.	0.6	42
132	Y ₂ SiO ₅ :Ce Phosphor Particles 0.5–1.4 μm in Size with Spherical Morphology. Journal of Solid State Chemistry, 1999, 146, 168-175.	2.9	42
133	A New Observation on the Phase Transformation of TiO ₂ Nanoparticles Produced by a CVD Method. Aerosol Science and Technology, 2005, 39, 104-112.	3.1	42
134	Nanosized Polymer Particle-facilitated Preparation of Mesoporous Silica Particles Using a Spray Method. Chemistry Letters, 2008, 37, 1040-1041.	1.3	42
135	Effect of the Carbon Source on the Luminescence Properties of Boron Carbon Oxynitride Phosphor Particles. Journal of the Electrochemical Society, 2010, 157, J329.	2.9	42
136	Dispersion mechanism of aggregate particles in air.. Journal of Chemical Engineering of Japan, 1979, 12, 152-159.	0.6	41
137	Preparation of oxide particles with ordered macropores by colloidal templating and spray pyrolysis. Acta Materialia, 2004, 52, 5151-5156.	7.9	41
138	Role of particle size for platinum-loaded tungsten oxide nanoparticles during dye photodegradation under solar-simulated irradiation. Catalysis Communications, 2011, 12, 525-529.	3.3	41
139	Image potential between a charged particle and an uncharged particle in aerosol coagulation—enhancement in all size regimes and interplay with van der Waals forces. Journal of Colloid and Interface Science, 1991, 141, 191-198.	9.4	40
140	A differential mobility analyzer and a Faraday cup electrometer for operation at 200–930 Pa pressure. Journal of Aerosol Science, 2000, 31, 1389-1395.	3.8	40
141	Nanoparticle Separation in Salted Droplet Microreactors. Chemistry of Materials, 2002, 14, 2623-2627.	6.7	40
142	Controllable crystallite and particle sizes of WO ₃ particles prepared by a spray pyrolysis method and their photocatalytic activity. AIChE Journal, 2014, 60, 41-49.	3.6	40
143	Rapid microwave-assisted synthesis of nitrogen-functionalized hollow carbon spheres with high monodispersity. Carbon, 2016, 107, 11-19.	10.3	40
144	Changes in the Shape and Mobility of Colloidal Gold Nanorods with Electrospray and Differential Mobility Analyzer Methods. Langmuir, 2005, 21, 10375-10382.	3.5	39

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145	Macroporous anatase titania particle: Aerosol self-assembly fabrication with photocatalytic performance. <i>Chemical Engineering Journal</i> , 2009, 152, 293-296.	12.7	39
146	Direct synthesis of spherical YAG:Ce phosphor from precursor solution containing polymer and urea. <i>Chemical Engineering Journal</i> , 2012, 210, 461-466.	12.7	39
147	Nanostructured design of electrocatalyst support materials for high-performance PEM fuel cell application. <i>Journal of Power Sources</i> , 2012, 203, 26-33.	7.8	39
148	Fabrication and Characterization of SiO ₂ Particles Generated by Spray Method for Standards Aerosol.. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 1285-1292.	0.6	38
149	Self-organization kinetics of mesoporous nanostructured particles. <i>AIChE Journal</i> , 2004, 50, 2583-2593.	3.6	38
150	Production of Narrow-Size-Distribution Polymer-Pigment-Nanoparticle Composites via Electrohydrodynamic Atomization. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 495-502.	3.6	38
151	Formation of BaTiO ₃ nanoparticles from an aqueous precursor by flame-assisted spray pyrolysis. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4489-4497.	5.7	38
152	Self-Organized Macroporous Carbon Structure Derived from Phenolic Resin via Spray Pyrolysis for High-Performance Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11944-11950.	8.0	38
153	Deposition of submicron aerosol particles in turbulent and transitional flow. <i>AIChE Journal</i> , 1993, 39, 17-26.	3.6	37
154	Modeling of Epitaxial Silicon Thin-Film Growth on a Rotating Substrate in a Horizontal Single-Wafer Reactor. <i>Journal of the Electrochemical Society</i> , 1995, 142, 4272-4278.	2.9	37
155	Numerical Simulation and Experiment on the Transport of Fine Particles in a Ventilated Room. <i>Aerosol Science and Technology</i> , 1996, 25, 242-255.	3.1	37
156	Experimental Measurement of Competitive Ion-Induced and Binary Homogeneous Nucleation in SO ₂ /H ₂ O/N ₂ Mixtures. <i>Aerosol Science and Technology</i> , 1997, 26, 527-543.	3.1	36
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