Donggeun Lee

List of Publications by Year
in descending order

39 papers	1,179 citations	516561 16 h-index	377752 34 g-index
39 all docs	39 docs citations	39 times ranked	1396 citing authors

#	Article	IF	Citations
1	A New Parameter to Control Heat Transport in Nanofluids: Surface Charge State of the Particle in Suspension. Journal of Physical Chemistry B, 2006, 110, 4323-4328.	1.2	277
2	Importance of Phase Change of Aluminum in Oxidation of Aluminum Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 14793-14795.	1.2	138
3	Effect of nanoparticle clustering on the effective thermal conductivity of concentrated silica colloids. Physical Review E, 2010, 81, 011406.	0.8	85
4	Thermophysical Properties of Interfacial Layer in Nanofluids. Langmuir, 2007, 23, 6011-6018.	1.6	79
5	Microstructural Behavior of the Alumina Shell and Aluminum Core Before and After Melting of Aluminum Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 404-411.	1.5	69
6	Coalescence enhanced synthesis of nanoparticles to control size, morphology and crystalline phase at high concentrations. Journal of Aerosol Science, 2002, 33, 1-16.	1.8	59
7	Controlled formation of nanoparticles utilizing laser irradiation in a flame and their characteristics. Applied Physics Letters, 2001, 79, 2459-2461.	1.5	44
8	Three-dimensional off-lattice Monte Carlo simulations on a direct relation between experimental process parameters and fractal dimension of colloidal aggregates. Journal of Colloid and Interface Science, 2010, 344, 353-361.	5.0	33
9	A One-Step Continuous Synthesis of Carbon-Supported Pt Catalysts Using a Flame for the Preparation of the Fuel Electrode. Langmuir, 2010, 26, 11212-11216.	1.6	33
10	A numerical simulation study of the path-resolved breakup behaviors of molten metal in high-pressure gas atomization: With emphasis on the role of shock waves in the gas/molten metal interaction. Advanced Powder Technology, 2018, 29, 623-630.	2.0	27
11	On-demand supply of slurry fuels to a porous anode of a direct carbon fuel cell: Attempts to increase fuel-anode contact and realize long-term operation. Journal of Power Sources, 2016, 309, 99-107.	4.0	26
12	Development and experimental evaluation of aerodynamic lens as an aerosol inlet of single particle mass spectrometry. Journal of Aerosol Science, 2008, 39, 287-304.	1.8	23
13	Numerical simulations of supersonic gas atomization of liquid metal droplets. Japanese Journal of Applied Physics, 2014, 53, 05HA09.	0.8	22
14	Catalytic oxidation kinetics of iron-containing carbon particles generated by spraying ferrocene-mixed with diesel fuel into a hydrogen–air diffusion flame. Carbon, 2010, 48, 2072-2084.	5.4	21
15	Enhancing triple-phase boundary at fuel electrode of direct carbon fuel cell using a fuel-filled ceria-coated porous anode. International Journal of Hydrogen Energy, 2014, 39, 17314-17321.	3.8	21
16	Enhanced rate capability due to highly active Ta_2O_5 catalysts for lithium sulfur batteries. Journal of Power Sources, 2019, 435, 226707.	4.0	21
17	A TGA study of CO_2 gasification reaction of various types of coal and biomass. Journal of Mechanical Science and Technology, 2016, 30, 3275-3281.	0.7	17
18	Aerodynamic focusing of 5–50nm nanoparticles in air. Journal of Aerosol Science, 2009, 40, 1010-1018.	1.8	16

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19	Flame aerosol synthesis of carbon-supported Pt–Ru catalysts for a fuel cell electrode. International Journal of Hydrogen Energy, 2014, 39, 14416-14420.	3.8	16
20	Thermal decomposition of alkane hydrocarbons inside a porous Ni anode for fuel supply of direct carbon fuel cell: Effects of morphology and crystallinity of carbon. Journal of Power Sources, 2015, 294, 284-291.	4.0	16
21	Microstructure-Controlled Aerosol–Gel Synthesis of ZnO Quantum Dots Dispersed in SiO_2 Nanospheres. Langmuir, 2012, 28, 2890-2896.	1.6	14
22	The role of salt in nanoparticle generation by salt-assisted aerosol method: Microstructural changes. Thermochimica Acta, 2007, 455, 138-147.	1.2	13
23	Spectroscopic techniques as a diagnostic tool for early detection of osteoporosis. Journal of Mechanical Science and Technology, 2010, 24, 1661-1668.	0.7	13
24	Numerical Simulations on Aerodynamic Focusing of Particles in a Wide Size Range of 30 nm–10 Î¼m. Aerosol Science and Technology, 2013, 47, 1001-1008.	1.5	13
25	Transient ion ejection during nanocomposite thermite reactions. Journal of Applied Physics, 2009, 106, 083306.	1.1	11
26	Reducing particle loss in a critical orifice and an aerodynamic lens for focusing aerosol particles in a wide size range of 30 nm â€" 10 Î¼m. Journal of Mechanical Science and Technology, 2015, 29, 317-323.	0.7	9
27	Understanding Morphology-Controlled Synthesis of Zinc Nanoparticles and Their Characteristics of Hydrolysis Reaction. Langmuir, 2013, 29, 6174-6180.	1.6	8
28	Development of filter-free particle filtration unit utilizing condensational growth: With special emphasis on high-concentration of ultrafine particles. Building and Environment, 2017, 112, 200-208.	3.0	8
29	Effect of Volume Fraction on Transient Structural Behavior of Aerosol Particles Using Off-Lattice Kinetic Monte Carlo Simulation. Aerosol Science and Technology, 2015, 49, 1242-1255.	1.5	6
30	Size-independent unipolar charging of nanoparticles at high concentrations using vapor condensation and its application for improving DMA size-selection efficiency. Journal of Aerosol Science, 2018, 121, 38-53.	1.8	6
31	Toward high-accuracy and high-applicability of a practical model to predict effective thermal conductivity of particle-reinforced composites. International Journal of Heat and Mass Transfer, 2019, 131, 863-872.	2.5	6
32	Intrinsic Solid-State Reaction Characteristics of Coals and Chars in a Direct Carbon Fuel Cell: With Focus on Significance Assessment of Fuel-Borne Factors. Energy & Fuels, 2020, 34, 4129-4138.	2.5	6
33	An ion optics for effective ion detection in single particle mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3286-3294.	0.7	5
34	Deep data analysis for aspiration pressure estimation in a high-pressure gas atomization process using an artificial neural network. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107924.	1.8	5
35	Numerical Modeling of Nano-powder Synthesis in a Radio-Frequency Inductively Coupled Plasma Torch. Applied Science and Convergence Technology, 2018, 27, 14-18.	0.3	5
36	Nanosecond laser induced energetic ion formation from a nanoparticle: The origin of ion detection loss in a single particle mass spectrometry. Japanese Journal of Applied Physics, 2014, 53, 05HA10.	0.8	3

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37	Desulfurization Characteristics of Fuel-Born Alkali and Alkali Earth Metal Compounds in Coal Ashes from Lab-Scale Experiment to Real-Scale Monitoring of CFBC and PC Boiler. ACS Omega, 2021, 6, 5962-5971.	1.6	2
38	Microstructural transition of nanoparticle deposits from multiple dendrites to compact layer. Journal of Aerosol Science, 2022, 159, 105876.	1.8	2
39	Application of Single-Particle Mass Spectrometer to Obtain Chemical Signatures of Various Combustion Aerosols. International Journal of Environmental Research and Public Health, 2021, 18, 11580.	1.2	1