Weon Gyu Shin

List of Publications by Year
in descending order

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		304743	377865
71	1,342	22	34
papers	citations	h-index	g-index

71	71	71	1526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ignition performance of TiO2 coated boron particles using a shock tube. Ceramics International, 2022, 48, 6166-6176.	4.8	7
2	Experimental and numerical study of a condensing steam jet. Journal of Nuclear Science and Technology, 2022, 59, 1089-1106.	1.3	2
3	Ignition study of facile spray drying prepared microspheres of nickel coated boron nanoparticles using a shock tube. Journal of Alloys and Compounds, 2022, 910, 164678.	5.5	4
4	Proposal for the list of potential radionuclides of interest during NPP site characterization or final status surveys. Nuclear Engineering and Technology, 2021, 53, 234-243.	2.3	5
5	Horizontal injection spray drying aerosol generator using an ultrasonic nozzle with clean counter flow. Journal of Aerosol Science, 2021, 151, 105662.	3.8	4
6	Numerical analysis to determine fire suppression time for multiple water mist nozzles in a large fire test compartment. Nuclear Engineering and Technology, 2021, 53, 1157-1166.	2.3	6
7	Enhanced photoelectrochemical performance of vertically aligned ZnO nanowires. Materials Letters, 2021, 297, 129871.	2.6	9
8	Comparison of models to predict the collection efficiency of an axial cyclone with a spindle vane. Journal of Aerosol Science, 2021, 157, 105817.	3.8	4
9	Ignition and oxidation performance of SnO2 coated boron particles: A solid fuel for energetic applications. Journal of Alloys and Compounds, 2021, 886, 161123.	5.5	9
10	Hydrodynamic behavior of bubbles at gas-evolving electrode in ultrasonic field during water electrolysis. Ultrasonics Sonochemistry, 2021, 80, 105796.	8.2	32
11	Room temperature electroless Ni-coating on boron particles: Physicochemical and oxidation-resistance properties. Journal of Industrial and Engineering Chemistry, 2020, 91, 252-262.	5.8	13
12	Ignition of nickel coated aluminum agglomerates using shock tube. Combustion and Flame, 2020, 221, 160-169.	5.2	14
13	Electroless deposition of Ni nanoparticles on micron-sized boron carbide particles: Physicochemical and oxidation properties. Korean Journal of Chemical Engineering, 2020, 37, 546-555.	2.7	4
14	Plasmonic gold sensitization of ZnO nanowires for solar water splitting. Materials Today Communications, 2019, 21, 100675.	1.9	12
15	Spray drying formation of metal oxide (TiO2 or SnO2) nanoparticle coated boron particles in the form of microspheres and their physicochemical properties. Journal of Alloys and Compounds, 2019, 810, 151923.	5.5	15
16	Experimental study on the condensation and heat transfer of impinging steam jet on the water surface. Annals of Nuclear Energy, 2019, 133, 458-468.	1.8	7
17	ZnO-TiO2 core-shell nanowires decorated with Au nanoparticles for plasmon-enhanced photoelectrochemical water splitting. Journal of Alloys and Compounds, 2019, 787, 1310-1319.	5.5	35
18	Non-uniform filtration velocity of process gas passing through a long bag filter. Journal of Hazardous Materials, 2019, 365, 440-447.	12.4	31

#	Article	IF	Citations
19	Novel in-line aerosol impactor utilizing upward inlet flow. Journal of Aerosol Science, 2019, 129, 87-97.	3.8	0
20	ZnO-TiO₂ Coreâ€“Shell Nanowires: A Sustainable Photoanode for Enhanced Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 6518-6526.	6.7	68
21	Understanding the condensation process of turbulent steam jet using the PDPA system. International Journal of Multiphase Flow, 2018, 98, 168-181.	3.4	8
22	Flexible Solid-State Symmetric Supercapacitor Based on (Fe,Cr)₂O₃ Oxide Layer Developed on the Stainless Steel Mesh. ACS Sustainable Chemistry and Engineering, 2018, 6, 300-310.	6.7	27
23	Electrochemical performance of facile developed aqueous asymmetric (Fe,Cr)2O3//MnO2 supercapacitor. Electrochimica Acta, 2018, 285, 381-392.	5.2	33
24	Preparation of ultrathin TiO2 coating on boron particles by thermal chemical vapor deposition and their oxidation-resistance performance. Journal of Alloys and Compounds, 2018, 767, 924-931.	5.5	19
25	High Efficiency Axial Wet Cyclone Air Sampler. Aerosol and Air Quality Research, 2018, 18, 2529-2537.	2.1	11
26	Numerical Study on the Characteristics of Ammonia Leakage and Positioning of Leak Detectors. Transactions of the Korean Society of Mechanical Engineers, B, 2018, 42, 551-558.	0.1	0
27	Experimental investigation and numerical modeling of the orientation angle of silver nanowires passing through polyester filters. Aerosol Science and Technology, 2017, 51, 292-300.	3.1	3
28	Catalytic activities of Ni-decorated boron particles. Materials and Design, 2017, 125, 205-212.	7.0	4
29	Chemical synthesis of ZnO nanorods: Investigations of electrochemical performance and photo-electrochemical water splitting applications. Journal of Alloys and Compounds, 2017, 711, 573-580.	5.5	55
30	Simple self-diagnostic method to identify the abnormal functioning of a scanning mobility particle sizer. Journal of Aerosol Science, 2017, 114, 130-138.	3.8	1
31	The effect of sheath flow rate on the particle trajectory inside an optical cavity with direct flow configuration. Journal of Aerosol Science, 2017, 114, 146-156.	3.8	4
32	Highly efficient in-line wet cyclone air sampler for airborne virus detection. Journal of Mechanical Science and Technology, 2017, 31, 4363-4369.	1.5	17
33	The effect of the Reynolds number on the velocity and temperature distributions of a turbulent condensing jet. International Journal of Heat and Fluid Flow, 2017, 67, 125-132.	2.4	8
34	Effects of an external electric field on the collection efficiency of air filters: Filtration mechanisms with an external e-field. Aerosol Science and Technology, 2017, 51, 1409-1418.	3.1	13
35	Air Cleaning Performance of a Novel Electrostatic Air Purifier Using an Activated Carbon Fiber Filter for Passenger Cars. IEEE Transactions on Industry Applications, 2017, 53, 5867-5874.	4.9	21
36	Preparation of TiO2-Decorated Boron Particles by Wet Ball Milling and their Photoelectrochemical Hydrogen and Oxygen Evolution Reactions. Materials, 2016, 9, 1012.	2.9	22

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37	Application of Ni-Oxide@TiO2 Core-Shell Structures to Photocatalytic Mixed Dye Degradation, CO Oxidation, and Supercapacitors. Materials, 2016, 9, 1024.	2.9	7
38	Combustion of boron particles coated with an energetic polymer material. Korean Journal of Chemical Engineering, 2016, 33, 3016-3020.	2.7	31
39	Novel inkjet droplet method generating monodisperse hollow metal oxide micro-spheres. Chemical Engineering Journal, 2016, 292, 139-146.	12.7	10
40	The Effect of Inkjet Operating Parameters on the Size Control of Aerosol Particles. Aerosol Science and Technology, 2015, 49, 1256-1262.	3.1	6
41	The Effect of Particle Morphology on Unipolar Diffusion Charging of Silver Nanowires. Aerosol Science and Technology, 2015, 49, 290-298.	3.1	2
42	Development of a novel aerosol impactor utilizing inward flow from a ring-shaped nozzle. Journal of Aerosol Science, 2015, 85, 1-9.	3.8	3
43	Band gap-engineered ZnO and Ag/ZnO by ball-milling method and their photocatalytic and Fenton-like photocatalytic activities. Applied Surface Science, 2015, 356, 615-625.	6.1	61
44	Ultrasonication assisted production of silver nanowires with low aspect ratio and their optical properties. Ultrasonics Sonochemistry, 2015, 22, 35-40.	8.2	19
45	Physicochemical properties of ball milled boron particles: Dry vs. wet ball milling process. Powder Technology, 2015, 269, 548-553.	4.2	72
46	Silver Nanowire Penetration Through Screen Filter. Aerosol Science and Technology, 2014, 48, 480-488.	3.1	7
47	Photoluminescence imaging of Eu(III) doped Y2O3 nanorods on a Si substrate deposited by an electrospray technique. Thin Solid Films, 2014, 565, 293-299.	1.8	5
48	Gas phase synthesis and physicoâ€chemical properties of vanadium oxide nanoparticles. Ceramics International, 2014, 40, 7431-7437.	4.8	1
49	Synergic CO oxidation activities of boronâ€“CeO2 hybrid materials prepared by dry and wet milling methods. Ceramics International, 2014, 40, 11511-11517.	4.8	15
50	Electrical mobility of silver nanowires in transition and continuum regimes. Journal of Aerosol Science, 2014, 72, 21-31.	3.8	4
51	Numerical Study on Air Egress Velocity in Vestibule Pressurization System : Characteristics of Air Flow in the Vestibule with Multiple Fire Doors in an Apartment Building. Fire Science and Engineering, 2014, 28, 30-36.	0.4	3
52	Numerical Study on the Effect of Heat Release Rate and Interior Opening on Fire Flow Velocity in the Case of Interior Fire in an Apartment Building. Fire Science and Engineering, 2014, 28, 37-43.	0.4	3
53	Numerical Study on Air Egress Velocity in Vestibule Pressurization System : Damper Locationfor Uniform Air Egress Velocity in the case of Two Fire Doors. Fire Science and Engineering, 2014, 28, 1-7.	0.4	4
54	Hollow SiO2 Nanospheres: One-Step Synthesis by Introducing Guest Ag Nanoparticles and an Irradiating Electron Beam under Ambient Condition. Aerosol and Air Quality Research, 2013, 13, 415-420.	2.1	5

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55	Electrical Mobility Behavior of Nanoparticle Fractal Agglomerates in the Slip Regime. Journal of Korean Society for Atmospheric Environment, 2013, 29, 211-216.	1.1	0
56	Measurement of Metal Nanoparticle Agglomerates Generated by Spark Discharge Using the Universal Nanoparticle Analyzer (UNPA). Aerosol Science and Technology, 2012, 46, 333-346.	3.1	17
57	Electron Beam Assisted Gas Phase Synthesis of SiO2 Nanoparticles in an Ambient Condition. Aerosol and Air Quality Research, 2012, 12, 1467-1471.	2.1	2
58	Production and characterization of boron nanoparticles synthesized with a thermal plasma system. Journal of Nanoparticle Research, 2011, 13, 7187-7191.	1.9	49
59	Hot-Wire Synthesis of Gold Nanoparticles. Aerosol Science and Technology, 2011, 45, 654-663.	3.1	27
60	Estimates of Non-Ideal Effects on the Friction Coefficient of Agglomerates. Aerosol and Air Quality Research, 2011, 11, 369-375.	2.1	1
61	Measurement of Nanoparticle Agglomerates by Combined Measurement of Electrical Mobility and Unipolar Charging Properties. Aerosol Science and Technology, 2010, 44, 97-108.	3.1	49
62	Determination of volume, scaling exponents, and particle alignment of nanoparticle agglomerates using tandem differential mobility analyzers. Journal of Aerosol Science, 2010, 41, 665-681.	3.8	26
63	The effect of particle morphology on unipolar diffusion charging of nanoparticle agglomerates in the transition regime. Journal of Aerosol Science, 2010, 41, 975-986.	3.8	62
64	Structural Properties and Filter Loading Characteristics of Soot Agglomerates. Aerosol Science and Technology, 2009, 43, 1033-1041.	3.1	46
65	Structural properties of silver nanoparticle agglomerates based on transmission electron microscopy: relationship to particle mobility analysis. Journal of Nanoparticle Research, 2009, 11, 163-173.	1.9	40
66	The effect of dielectric constant of materials on unipolar diffusion charging of nanoparticles. Journal of Aerosol Science, 2009, 40, 463-468.	3.8	30
67	Friction coefficient and mass of silver agglomerates in the transition regime. Journal of Aerosol Science, 2009, 40, 573-587.	3.8	31
68	Structural Property Effect of Nanoparticle Agglomerates on Particle Penetration through Fibrous Filter. Aerosol Science and Technology, 2009, 43, 344-355.	3.1	102
69	The Effect of Particle Pre-Existing Charge on Unipolar Charging and Its Implication on Electrical Aerosol Measurements. Aerosol Science and Technology, 2009, 43, 232-240.	3.1	38
70	Bereitstellung von luftgetragenen Nanopartikeln fÃ¼r in vitro- und in vivo-Untersuchungen. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2008, 3, 312-318.	1.4	0
71	Experimental study of filtration efficiency of nanoparticles below 20nm at elevated temperatures. Journal of Aerosol Science, 2008, 39, 488-499.	3.8	37