

Changhyuk Kim

List of Publications by Year in descending order

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29
papers

910
citations

623574

14
h-index

477173

29
g-index

39
all docs

39
docs citations

39
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time detection of vehicle-originated condensable particulate matter through thermodenuder integrated aerosol measurement method at tailpipes. <i>Environmental Research</i> , 2022, 212, 113487.	3.7	3
2	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. <i>Aerosol Science and Technology</i> , 2021, 55, 231-242.	1.5	18
3	Molecular characterization of ultrafine particles using extractive electrospray time-of-flight mass spectrometry. <i>Environmental Science Atmospheres</i> , 2021, 1, 434-448.	0.9	10
4	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021, 371, 589-595.	6.0	94
5	Effects of injection pressure and length-diameter ratio on the velocity and cavitation inside injector nozzle. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1.	0.8	1
6	The nano-scanning electrical mobility spectrometer (nSEMS) and its application to size distribution measurements of 1.5–25 nm particles. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5429-5445.	1.2	5
7	The driving factors of new particle formation and growth in the polluted boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14275-14291.	1.9	38
8	Enhanced mineral carbonation at room temperature through MgO nanocubes synthesized by self-combustion. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105592.	3.3	4
9	The Spider DMA: A miniature radial differential mobility analyzer. <i>Aerosol Science and Technology</i> , 2020, 54, 175-189.	1.5	4
10	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 7911-7921.	4.6	66
11	Investigation of Airborne Molecular Contamination in Cleanroom Air Environment through Portable Soft X-Ray Radiolysis Detector. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 978.	1.3	4
12	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7359-7372.	1.9	58
13	Molecular understanding of the suppression of new-particle formation by isoprene. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11809-11821.	1.9	49
14	Molecular understanding of new-particle formation from α -pinene between ~ 50 and $+25$ °C. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9183-9207.	1.9	68
15	Measurements of Outgassing From PM _{2.5} Collected in Xi'an, China Through Soft X-Ray-Radiolysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2019, 32, 259-266.	1.4	6
16	Assessment of black carbon concentration as a potential measure of air quality at multi-purpose facilities. <i>Journal of Aerosol Science</i> , 2019, 138, 105450.	1.8	5
17	Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between ~ 50 °C and $+25$ °C. <i>Environmental Science & Technology</i> , 2019, 53, 12357-12365.	4.6	32
18	Light emission induced by electric current at room temperature through the defect networks of MgO nanocubes. <i>AIP Advances</i> , 2019, 9, 125305.	0.6	2

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19	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	4.7	164
20	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9122-9127.	3.3	118
21	Evaluation of concentration measurement techniques of colloidal nanoparticles for microfiltration and ultrafiltration applications: Inductively coupled plasma-mass spectrometry, nanoparticle tracking analysis and electrospray-scanning mobility particle sizer. <i>Separation and Purification Technology</i> , 2017, 184, 34-42.	3.9	12
22	The effect of filtered nanoparticles on gas filtration efficiency of granular activated carbons. <i>Carbon</i> , 2017, 121, 63-71.	5.4	12
23	Synthesis of terraced and spherical MgO nanoparticles using flame metal combustion. <i>Powder Technology</i> , 2017, 305, 132-140.	2.1	20
24	Real-time and online screening method for materials emitting volatile organic compounds. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	9
25	Removal of airborne sub-30 nm particles using fibrous filters and granular activated carbons. <i>Carbon</i> , 2016, 104, 125-132.	5.4	19
26	Experimental study on the filtration efficiency of activated carbons for 30 nm particles. <i>Carbon</i> , 2015, 93, 226-229.	5.4	15
27	Two-band luminescence from an intrinsic defect in spherical and terraced MgO nanoparticles. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	26
28	Soft X-ray-assisted detection method for airborne molecular contaminations (AMCs). <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	11
29	A flame metal combustion method for production of nanoparticles. <i>Powder Technology</i> , 2010, 197, 170-176.	2.1	29