

# 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	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	4.7	164
2	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
3	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021, 371, 589-595.	6.0	94
4	Molecular understanding of new-particle formation from $\alpha$ -pinene between $\sim 50$ and $+25$ Å°C. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9183-9207.	1.9	68
5	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7911-7921.	4.6	66
6	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7359-7372.	1.9	58
7	Molecular understanding of the suppression of new-particle formation by isoprene. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11809-11821.	1.9	49
8	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
9	Molecular Composition and Volatility of Nucleated Particles from $\alpha$ -Pinene Oxidation between $\sim 50$ Å°C and $+25$ Å°C. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12357-12365.	4.6	32
10	A flame metal combustion method for production of nanoparticles. <i>Powder Technology</i> , 2010, 197, 170-176.	2.1	29
11	Two-band luminescence from an intrinsic defect in spherical and terraced MgO nanoparticles. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	26
12	Synthesis of terraced and spherical MgO nanoparticles using flame metal combustion. <i>Powder Technology</i> , 2017, 305, 132-140.	2.1	20
13	Removal of airborne sub-3 Ånm particles using fibrous filters and granular activated carbons. <i>Carbon</i> , 2016, 104, 125-132.	5.4	19
14	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
15	Experimental study on the filtration efficiency of activated carbons for $\sim 30$ nm particles. <i>Carbon</i> , 2015, 93, 226-229.	5.4	15
16	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
17	The effect of filtered nanoparticles on gas filtration efficiency of granular activated carbons. <i>Carbon</i> , 2017, 121, 63-71.	5.4	12
18	Soft X-ray-assisted detection method for airborne molecular contaminations (AMCs). <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	11

#	ARTICLE	IF	CITATIONS
19	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
20	Real-time and online screening method for materials emitting volatile organic compounds. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	9
21	Measurements of Outgassing From PM <sub>2.5</sub> Collected in Xi'an, China Through Soft X-Ray-Radiolysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2019, 32, 259-266.	1.4	6
22	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
23	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
24	The Spider DMA: A miniature radial differential mobility analyzer. <i>Aerosol Science and Technology</i> , 2020, 54, 175-189.	1.5	4
25	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
26	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
27	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
28	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
29	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