

Gi Byoung Hwang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

763
citations

15
h-index

27
g-index

31
ext. papers

930
ext. citations

7.9
avg, IF

4.11
L-index

#	Paper	IF	Citations
30	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. <i>ACS Nano</i> , 2018 , 12, 6050-6058	10.7	128
29	Preparation of airborne Ag/CNT hybrid nanoparticles using an aerosol process and their application to antimicrobial air filtration. <i>Langmuir</i> , 2011 , 27, 10256-64	4	103
28	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. <i>Nanoscale</i> , 2017 , 9, 7588-7594	7.7	98
27	Effect of hybrid UV-thermal energy stimuli on inactivation of <i>S. epidermidis</i> and <i>B. subtilis</i> bacterial bioaerosols. <i>Science of the Total Environment</i> , 2010 , 408, 5903-9	10.2	39
26	Antimicrobial Air Filtration Using Airborne <i>Sophora Flavescens</i> Natural-Product Nanoparticles. <i>Aerosol Science and Technology</i> , 2011 , 45, 1510-1518	3.4	35
25	Development and evaluation of antimicrobial activated carbon fiber filters using <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2014 , 493, 291-7	10.2	27
24	Drop-on-demand patterning of bacterial cells using pulsed jet electro spraying. <i>Analytical Chemistry</i> , 2010 , 82, 2109-12	7.8	27
23	Antimicrobial Air Filters Using Natural <i>Euscaphis japonica</i> Nanoparticles. <i>PLoS ONE</i> , 2015 , 10, e0126481	3.7	27
22	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 98-104	9.5	27
21	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. <i>Nature Communications</i> , 2020 , 11, 1207	17.4	26
20	Superhydrophobic and White Light-Activated Bactericidal Surface through a Simple Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29002-29009	9.5	22
19	Electrospray-assisted ultraviolet aerodynamic particle sizer spectrometer for real-time characterization of bacterial particles. <i>Analytical Chemistry</i> , 2010 , 82, 664-71	7.8	22
18	Antimicrobial durability of air filters coated with airborne <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2013 , 444, 110-4	10.2	21
17	Short-term effect of humid airflow on antimicrobial air filters using <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2012 , 421-422, 273-9	10.2	18
16	Application of UVAPS to real-time detection of inactivation of fungal bioaerosols due to thermal energy. <i>Journal of Aerosol Science</i> , 2010 , 41, 694-701	4.3	17
15	White Light-Activated Antimicrobial Paint using Crystal Violet. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15033-9	9.5	15
14	Synthesis of hybrid carbon nanotube structures coated with nanoparticles and their application to antimicrobial air filtration. <i>Journal of Aerosol Science</i> , 2015 , 86, 44-54	4.3	14

13	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2199-2207	7.3	14
12	Generation characteristics of fungal spore and fragment bioaerosols by airflow control over fungal cultures. <i>Journal of Aerosol Science</i> , 2010 , 41, 319-325	4.3	14
11	Water-Repellent TiO-Organic Dye-Based Air Filters for Efficient Visible-Light-Activated Photochemical Inactivation against Bioaerosols. <i>Nano Letters</i> , 2021 , 21, 1576-1583	11.5	13
10	Rapid synthesis of [Au ₂₅ (Cys) ₁₈] nanoclusters via carbon monoxide in microfluidic liquid-liquid segmented flow system and their antimicrobial performance. <i>Chemical Engineering Journal</i> , 2020 , 383, 123176	14.7	10
9	Zn and N Codoped TiO Thin Films: Photocatalytic and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10480-10489	9.5	9
8	Aerosol Particle Size Distribution and Genetic Characteristics of Aerosolized Influenza A H1N1 Virus Vaccine Particles. <i>Aerosol and Air Quality Research</i> , 2011 , 11, 230-237	4.6	8
7	Asbestos Imaging and Detection with Differential Interference Contrast Microscopy. <i>Aerosol and Air Quality Research</i> , 2013 , 13, 1145-1150	4.6	6
6	Photobactericidal Activity of Dual Dyes Encapsulated in Silicone Enhanced by Silver Nanoparticles. <i>ACS Omega</i> , 2018 , 3, 6779-6786	3.9	6
5	Effects of Electric Field Strength on an Antimicrobial Air Filter. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 1028-1037	4.6	4
4	Continuous Single-Phase Synthesis of [Au(Cys)] Nanoclusters and their Photobactericidal Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49021-49029	9.5	3
3	Photobiocidal-triboelectric nanolayer coating of photosensitizer/silica-alumina for reusable and visible-light-driven antibacterial/antiviral air filters.. <i>Chemical Engineering Journal</i> , 2022 , 135830	14.7	3
2	Effects of Antimicrobial Air Filters on the Viability and Culturability of Airborne Bacteria. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 1268-1277	1.6	2
1	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5478-5485	9.5	2