Gi Byoung Hwang

List of Publications by Year in Descending Order

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	Photobiocidal-triboelectric nanolayer coating of photosensitizer/silica-alumina for reusable and visible-light-driven antibacterial/antiviral air filters.. *Chemical Engineering Journal*, **2022**, 135830	14.7	3
29	Water-Repellent TiO-Organic Dye-Based Air Filters for Efficient Visible-Light-Activated Photochemical Inactivation against Bioaerosols. *Nano Letters*, **2021**, 21, 1576-1583	11.5	13
28	Zn and N Codoped TiO Thin Films: Photocatalytic and Bactericidal Activity. *ACS Applied Materials & Interfaces*, **2021**, 13, 10480-10489	9.5	9
27	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. *ACS Applied Materials & Interfaces*, **2021**, 13, 5478-5485	9.5	2
26	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. *Nature Communications*, **2020**, 11, 1207	17.4	26
25	Continuous Single-Phase Synthesis of [Au(Cys)] Nanoclusters and their Photobactericidal Enhancement. *ACS Applied Materials & Interfaces*, **2020**, 12, 49021-49029	9.5	3
24	Rapid synthesis of [Au25(Cys)18] nanoclusters via carbon monoxide in microfluidic liquid-liquid segmented flow system and their antimicrobial performance. *Chemical Engineering Journal*, **2020**, 383, 123176	14.7	10
23	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. *ACS Applied Materials & Interfaces*, **2018**, 10, 98-104	9.5	27
22	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. *ACS Nano*, **2018**, 12, 6050-6058	14.7	128
21	Photobactericidal Activity of Dual Dyes Encapsulated in Silicone Enhanced by Silver Nanoparticles. *ACS Omega*, **2018**, 3, 6779-6786	3.9	6
20	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. *Nanoscale*, **2017**, 9, 7588-7594	7.7	98
19	Superhydrophobic and White Light-Activated Bactericidal Surface through a Simple Coating. *ACS Applied Materials & Interfaces*, **2017**, 9, 29002-29009	9.5	22
18	Effects of Antimicrobial Air Filters on the Viability and Culturability of Airborne Bacteria. *Clean - Soil, Air, Water*, **2016**, 44, 1268-1277	1.6	2
17	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. *Journal of Materials Chemistry B*, **2016**, 4, 2199-2207	7.3	14
16	White Light-Activated Antimicrobial Paint using Crystal Violet. *ACS Applied Materials & Interfaces*, **2016**, 8, 15033-9	9.5	15
15	Synthesis of hybrid carbon nanotube structures coated with nanoparticles and their application to antimicrobial air filtration. *Journal of Aerosol Science*, **2015**, 86, 44-54	4.3	14
14	Antimicrobial Air Filters Using Natural Euscaphis japonica Nanoparticles. *PLoS ONE*, **2015**, 10, e0126481	3.7	27

13	Development and evaluation of antimicrobial activated carbon fiber filters using Sophora flavescens nanoparticles. *Science of the Total Environment*, **2014**, 493, 291-7	10.2	27
12	Effects of Electric Field Strength on an Antimicrobial Air Filter. *Aerosol and Air Quality Research*, **2014**, 14, 1028-1037	4.6	4
11	Antimicrobial durability of air filters coated with airborne Sophora flavescens nanoparticles. *Science of the Total Environment*, **2013**, 444, 110-4	10.2	21
10	Asbestos Imaging and Detection with Differential Interference Contrast Microscopy. *Aerosol and Air Quality Research*, **2013**, 13, 1145-1150	4.6	6
9	Short-term effect of humid airflow on antimicrobial air filters using Sophora flavescens nanoparticles. *Science of the Total Environment*, **2012**, 421-422, 273-9	10.2	18
8	Preparation of airborne Ag/CNT hybrid nanoparticles using an aerosol process and their application to antimicrobial air filtration. *Langmuir*, **2011**, 27, 10256-64	4	103
7	Antimicrobial Air Filtration Using Airborne Sophora Flavescens Natural-Product Nanoparticles. *Aerosol Science and Technology*, **2011**, 45, 1510-1518	3.4	35
6	Aerosol Particle Size Distribution and Genetic Characteristics of Aerosolized Influenza A H1N1 Virus Vaccine Particles. *Aerosol and Air Quality Research*, **2011**, 11, 230-237	4.6	8
5	Electrospray-assisted ultraviolet aerodynamic particle sizer spectrometer for real-time characterization of bacterial particles. *Analytical Chemistry*, **2010**, 82, 664-71	7.8	22
4	Generation characteristics of fungal spore and fragment bioaerosols by airflow control over fungal cultures. *Journal of Aerosol Science*, **2010**, 41, 319-325	4.3	14
3	Application of UVAPS to real-time detection of inactivation of fungal bioaerosols due to thermal energy. *Journal of Aerosol Science*, **2010**, 41, 694-701	4.3	17
2	Drop-on-demand patterning of bacterial cells using pulsed jet electrospraying. *Analytical Chemistry*, **2010**, 82, 2109-12	7.8	27
1	Effect of hybrid UV-thermal energy stimuli on inactivation of S. epidermidis and B. subtilis bacterial bioaerosols. *Science of the Total Environment*, **2010**, 408, 5903-9	10.2	39