

Gi Byoung Hwang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,133
citations

430874

18
h-index

434195

31
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all docs

31
docs citations

31
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. <i>ACS Nano</i> , 2018, 12, 6050-6058.	14.6	222
2	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. <i>Nanoscale</i> , 2017, 9, 7588-7594.	5.6	141
3	Preparation of Airborne Ag/CNT Hybrid Nanoparticles Using an Aerosol Process and Their Application to Antimicrobial Air Filtration. <i>Langmuir</i> , 2011, 27, 10256-10264.	3.5	130
4	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. <i>Nature Communications</i> , 2020, 11, 1207.	12.8	52
5	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, 5903-5909.	8.0	49
6	Antimicrobial Air Filtration Using Airborne <i>Sophora Flavescens</i> Natural-Product Nanoparticles. <i>Aerosol Science and Technology</i> , 2011, 45, 1510-1518.	3.1	38
7	Water-Repellent TiO ₂ -Organic Dye-Based Air Filters for Efficient Visible-Light-Activated Photochemical Inactivation against Bioaerosols. <i>Nano Letters</i> , 2021, 21, 1576-1583.	9.1	36
8	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 98-104.	8.0	35
9	Superhydrophobic and White Light-Activated Bactericidal Surface through a Simple Coating. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29002-29009.	8.0	34
10	Antimicrobial Air Filters Using Natural <i>Euscaphis japonica</i> Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0126481.	2.5	33
11	Development and evaluation of antimicrobial activated carbon fiber filters using <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2014, 493, 291-297.	8.0	31
12	Drop-on-Demand Patterning of Bacterial Cells Using Pulsed Jet Electrospraying. <i>Analytical Chemistry</i> , 2010, 82, 2109-2112.	6.5	29
13	Zn and N Codoped TiO ₂ Thin Films: Photocatalytic and Bactericidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10480-10489.	8.0	28
14	Antimicrobial durability of air filters coated with airborne <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2013, 444, 110-114.	8.0	25
15	White Light-Activated Antimicrobial Paint using Crystal Violet. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15033-15039.	8.0	25
16	Electrospray-Assisted Ultraviolet Aerodynamic Particle Sizer Spectrometer for Real-time Characterization of Bacterial Particles. <i>Analytical Chemistry</i> , 2010, 82, 664-671.	6.5	23
17	Synthesis of hybrid carbon nanotube structures coated with <i>Sophora flavescens</i> nanoparticles and their application to antimicrobial air filtration. <i>Journal of Aerosol Science</i> , 2015, 86, 44-54.	3.8	20
18	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.	3.8	19

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19	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, 273-279.	8.0	19
20	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2199-2207.	5.8	19
21	Production of an EP/PDMS/SA/AlZnO Coated Superhydrophobic Surface through an Aerosol-Assisted Chemical Vapor Deposition Process. <i>Langmuir</i> , 2022, 38, 7825-7832.	3.5	19
22	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.	12.7	18
23	Photobiocidal-triboelectric nanolayer coating of photosensitizer/silica-alumina for reusable and visible-light-driven antibacterial/antiviral air filters. <i>Chemical Engineering Journal</i> , 2022, 440, 135830.	12.7	18
24	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.	2.1	15
25	Generation characteristics of fungal spore and fragment bioaerosols by airflow control over fungal cultures. <i>Journal of Aerosol Science</i> , 2010, 41, 319-325.	3.8	14
26	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5478-5485.	8.0	12
27	Photobactericidal Activity of Dual Dyes Encapsulated in Silicone Enhanced by Silver Nanoparticles. <i>ACS Omega</i> , 2018, 3, 6779-6786.	3.5	8
28	Continuous Single-Phase Synthesis of [Au ₂₅ (Cys) ₁₈] Nanoclusters and their Photobactericidal Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49021-49029.	8.0	7
29	Asbestos Imaging and Detection with Differential Interference Contrast Microscopy. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1145-1150.	2.1	7
30	Effects of Electric Field Strength on an Antimicrobial Air Filter. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1028-1037.	2.1	4
31	Effects of Antimicrobial Air Filters on the Viability and Culturability of Airborne Bacteria. <i>Clean - Soil, Air, Water</i> , 2016, 44, 1268-1277.	1.1	3