Gi Byoung Hwang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7599980/publications.pdf

Version: 2024-02-01

31 papers	1,133 citations	430874 18 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	1571 citing authors

#	Article	IF	Citations
1	Photobiocidal-triboelectric nanolayer coating of photosensitizer/silica-alumina for reusable and visible-light-driven antibacterial/antiviral air filters. Chemical Engineering Journal, 2022, 440, 135830.	12.7	18
2	Production of an EP/PDMS/SA/AlZnO Coated Superhydrophobic Surface through an Aerosol-Assisted Chemical Vapor Deposition Process. Langmuir, 2022, 38, 7825-7832.	3.5	19
3	Water-Repellent TiO₂-Organic Dye-Based Air Filters for Efficient Visible-Light-Activated Photochemical Inactivation against Bioaerosols. Nano Letters, 2021, 21, 1576-1583.	9.1	36
4	Zn and N Codoped TiO₂ Thin Films: Photocatalytic and Bactericidal Activity. ACS Applied Materials & Interfaces, 2021, 13, 10480-10489.	8.0	28
5	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 5478-5485.	8.0	12
6	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.	12.7	18
7	Continuous Single-Phase Synthesis of [Au25(Cys)18] Nanoclusters and their Photobactericidal Enhancement. ACS Applied Materials & Interfaces, 2020, 12, 49021-49029.	8.0	7
8	Photobactericidal activity activated by thiolated gold nanoclusters at low flux levels of white light. Nature Communications, 2020, 11, 1207.	12.8	52
9	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. ACS Applied Materials & Interfaces, 2018, 10, 98-104.	8.0	35
10	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. ACS Nano, 2018, 12, 6050-6058.	14.6	222
11	Photobactericidal Activity of Dual Dyes Encapsulated in Silicone Enhanced by Silver Nanoparticles. ACS Omega, 2018, 3, 6779-6786.	3.5	8
12	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. Nanoscale, 2017, 9, 7588-7594.	5.6	141
13	Superhydrophobic and White Light-Activated Bactericidal Surface through a Simple Coating. ACS Applied Materials & Interfaces, 2017, 9, 29002-29009.	8.0	34
14	Effects of Antimicrobial Air Filters on the Viability and Culturability of Airborne Bacteria. Clean - Soil, Air, Water, 2016, 44, 1268-1277.	1.1	3
15	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. Journal of Materials Chemistry B, 2016, 4, 2199-2207.	5.8	19
16	White Light-Activated Antimicrobial Paint using Crystal Violet. ACS Applied Materials & Interfaces, 2016, 8, 15033-15039.	8.0	25
17	Synthesis of hybrid carbon nanotube structures coated with Sophora flavescens nanoparticles and their application to antimicrobial air filtration. Journal of Aerosol Science, 2015, 86, 44-54.	3.8	20
18	Antimicrobial Air Filters Using Natural Euscaphis japonica Nanoparticles. PLoS ONE, 2015, 10, e0126481.	2.5	33

#	Article	IF	Citations
19	Development and evaluation of antimicrobial activated carbon fiber filters using Sophora flavescens nanoparticles. Science of the Total Environment, 2014, 493, 291-297.	8.0	31
20	Effects of Electric Field Strength on an Antimicrobial Air Filter. Aerosol and Air Quality Research, 2014, 14, 1028-1037.	2.1	4
21	Antimicrobial durability of air filters coated with airborne Sophora flavescens nanoparticles. Science of the Total Environment, 2013, 444, 110-114.	8.0	25
22	Asbestos Imaging and Detection with Differential Interference Contrast Microscopy. Aerosol and Air Quality Research, 2013, 13, 1145-1150.	2.1	7
23	Short-term effect of humid airflow on antimicrobial air filters using Sophora flavescens nanoparticles. Science of the Total Environment, 2012, 421-422, 273-279.	8.0	19
24	Preparation of Airborne Ag/CNT Hybrid Nanoparticles Using an Aerosol Process and Their Application to Antimicrobial Air Filtration. Langmuir, 2011, 27, 10256-10264.	3.5	130
25	Antimicrobial Air Filtration Using AirborneSophora FlavescensNatural-Product Nanoparticles. Aerosol Science and Technology, 2011, 45, 1510-1518.	3.1	38
26	Aerosol Particle Size Distribution and Genetic Characteristics of Aerosolized Influenza A H1N1 Virus Vaccine Particles. Aerosol and Air Quality Research, 2011, 11, 230-237.	2.1	15
27	Effect of hybrid UV-thermal energy stimuli on inactivation of S. epidermidis andB. subtilis bacterial bioaerosols. Science of the Total Environment, 2010, 408, 5903-5909.	8.0	49
28	Electrospray-Assisted Ultraviolet Aerodynamic Particle Sizer Spectrometer for Real-time Characterization of Bacterial Particles. Analytical Chemistry, 2010, 82, 664-671.	6.5	23
29	Generation characteristics of fungal spore and fragment bioaerosols by airflow control over fungal cultures. Journal of Aerosol Science, 2010, 41, 319-325.	3.8	14
30	Application of UVAPS to real-time detection of inactivation of fungal bioaerosols due to thermal energy. Journal of Aerosol Science, 2010, 41, 694-701.	3.8	19
31	Drop-on-Demand Patterning of Bacterial Cells Using Pulsed Jet Electrospraying. Analytical Chemistry, 2010, 82, 2109-2112.	6.5	29