

Mark Hernandez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1724032/publications.pdf>

Version: 2024-02-01

55
papers

2,180
citations

201674

27
h-index

223800

46
g-index

56
all docs

56
docs citations

56
times ranked

2522
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating polymerase chain reaction-based identification, population characterization, and quantification of microorganisms into aerosol science: A review. <i>Atmospheric Environment</i> , 2006, 40, 3941-3961.	4.1	181
2	Effects of Relative Humidity on the Ultraviolet Induced Inactivation of Airborne Bacteria. <i>Aerosol Science and Technology</i> , 2001, 35, 728-740.	3.1	150
3	The Microbiota, Immunoregulation, and Mental Health: Implications for Public Health. <i>Current Environmental Health Reports</i> , 2016, 3, 270-286.	6.7	150
4	Efficacy of ultraviolet germicidal irradiation of upper-room air in inactivating airborne bacterial spores and mycobacteria in full-scale studies. <i>Atmospheric Environment</i> , 2003, 37, 405-419.	4.1	136
5	Biogenic sulfuric acid attack on different types of commercially produced concrete sewer pipes. <i>Cement and Concrete Research</i> , 2010, 40, 293-301.	11.0	133
6	Chamber catalogues of optical and fluorescent signatures distinguish bioaerosol classes. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3283-3292.	3.1	87
7	Impact of Environmental Factors on Efficacy of Upper-Room Air Ultraviolet Germicidal Irradiation for Inactivating Airborne Mycobacteria. <i>Environmental Science & Technology</i> , 2005, 39, 9656-9664.	10.0	86
8	UV Air Cleaners and Upper-Room Air Ultraviolet Germicidal Irradiation for Controlling Airborne Bacteria and Fungal Spores. <i>Journal of Occupational and Environmental Hygiene</i> , 2006, 3, 536-546.	1.0	83
9	Application of a tetrazolium dye as an indicator of viability in anaerobic bacteria. <i>Journal of Microbiological Methods</i> , 1999, 37, 231-243.	1.6	81
10	Development and Application of Small-Subunit rRNA Probes for Assessment of Selected <i>Thiobacillus</i> Species and Members of the Genus <i>Acidiphilium</i> . <i>Applied and Environmental Microbiology</i> , 2000, 66, 3065-3072.	3.1	73
11	Quantification of <i>Gordona amarae</i> Strains in Foaming Activated Sludge and Anaerobic Digester Systems with Oligonucleotide Hybridization Probes. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2503-2512.	3.1	68
12	Molecular Thermometry. <i>Pediatric Research</i> , 2010, 67, 469-475.	2.3	64
13	Reduction of the earth's magnetic field inhibits growth rates of model cancer cell lines. <i>Bioelectromagnetics</i> , 2010, 31, 649-655.	1.6	61
14	Photoreactivation in Airborne <i>Mycobacterium parafortuitum</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 4225-4232.	3.1	60
15	In situ assessment of active <i>Thiobacillus</i> species in corroding concrete sewers using fluorescent RNA probes. <i>International Biodeterioration and Biodegradation</i> , 2002, 49, 271-276.	3.9	59
16	Ultrasonic monitoring of early-stage biofilm growth on polymeric surfaces. <i>Journal of Microbiological Methods</i> , 2007, 68, 458-467.	1.6	51
17	Inactivation of Airborne Microorganisms Using Novel Ultraviolet Radiation Sources in Reflective Flow-Through Control Devices. <i>Aerosol Science and Technology</i> , 2010, 44, 541-550.	3.1	46
18	Ultraviolet germicidal irradiation inactivation of airborne fungal spores and bacteria in upper-room air and HVAC in-duct configurations. <i>Journal of Environmental Engineering and Science</i> , 2007, 6, 1-9.	0.8	40

#	ARTICLE	IF	CITATIONS
19	A Combined Fluorochrome Method for Quantitation of Metabolically Active and Inactive Airborne Bacteria. <i>Aerosol Science and Technology</i> , 1999, 30, 145-160.	3.1	39
20	Characterization of filamentous foaming in activated sludge systems using oligonucleotide hybridization probes and antibody probes. <i>Water Science and Technology</i> , 1998, 37, 485-493.	2.5	38
21	A new direct microscopy based method for evaluating in-situ bioremediation. <i>Journal of Hazardous Materials</i> , 1999, 67, 299-312.	12.4	37
22	Quantification of Nitrifying Bacterial Populations in a Full-Scale Nitrifying Trickle Filter Using Fluorescent In Situ Hybridization. <i>Water Environment Research</i> , 2001, 73, 329-338.	2.7	35
23	Mass and Viability Estimations of <i>Nocardia</i> in Activated Sludge and Anaerobic Digesters Using Conventional Stains and Immunofluorescent Methods. <i>Water Science and Technology</i> , 1994, 29, 249-259.	2.5	35
24	Microbial aerosol liberation from soiled textiles isolated during routine residuals handling in a modern health care setting. <i>Microbiome</i> , 2015, 3, 72.	11.1	33
25	5-Cyano-2,3-ditolyl tetrazolium chloride (CTC) reduction in a mesophilic anaerobic digester: Measuring redox behavior, differentiating abiotic reduction, and comparing FISH response as an activity indicator. <i>Journal of Microbiological Methods</i> , 2003, 52, 59-68.	1.6	31
26	High-Resolution Microbial Community Succession of Microbially Induced Concrete Corrosion in Working Sanitary Manholes. <i>PLoS ONE</i> , 2015, 10, e0116400.	2.5	30
27	Assessment of in-situ bioremediation at a refinery waste-contaminated site and an aviation gasoline contaminated site. <i>Biodegradation</i> , 2002, 13, 79-90.	3.0	29
28	Rapid Immunoassays for Detection of UV-Induced Cyclobutane Pyrimidine Dimers in Whole Bacterial Cells. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2542-2549.	3.1	20
29	Real-time PCR for detection of the <i>Aspergillus</i> genus. <i>Journal of Environmental Monitoring</i> , 2007, 9, 599.	2.1	20
30	Biofouling potential of industrial fermentation broth components during microfiltration. <i>Journal of Membrane Science</i> , 2010, 349, 44-55.	8.2	19
31	Monitoring Protein Fouling on Polymeric Membranes Using Ultrasonic Frequency-Domain Reflectometry. <i>Membranes</i> , 2011, 1, 195-216.	3.0	19
32	The fate of <i>Nocardia</i> in anaerobic digestion. <i>Water Environment Research</i> , 1994, 66, 828-835.	2.7	16
33	Simultaneous oligonucleotide probe hybridization and immunostaining for in situ detection of <i>Gordonia</i> species in activated sludge. <i>FEMS Microbiology Ecology</i> , 1999, 29, 129-136.	2.7	16
34	Effects of Soluble Ferric Hydroxide Complexes on Microbial Neutralization of Acid Mine Drainage. <i>Environmental Science & Technology</i> , 2005, 39, 7826-7832.	10.0	15
35	Effects of Ceiling-Mounted HEPA-UV Air Filters on Airborne Bacteria Concentrations in an Indoor Therapy Pool Building. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 210-218.	1.9	14
36	A Toxicology Suite Adapted for Comparing Parallel Toxicity Responses of Model Human Lung Cells to Diesel Exhaust Particles and Their Extracts. <i>Aerosol Science and Technology</i> , 2015, 49, 599-610.	3.1	12

#	ARTICLE	IF	CITATIONS
37	High fidelity recovery of airborne microbial genetic materials by direct condensation capture into genomic preservatives. <i>Journal of Microbiological Methods</i> , 2019, 157, 1-3.	1.6	12
38	The Hospital Microbiome Project: Meeting report for the 2nd Hospital Microbiome Project, Chicago, USA, January 15th, 2013. <i>Standards in Genomic Sciences</i> , 2013, 8, 571-579.	1.5	11
39	Removal of radionuclides from acidic solution by activated carbon impregnated with methyl- and carboxy-benzotriazoles. <i>Scientific Reports</i> , 2020, 10, 11712.	3.3	11
40	Particle control reduces fine and ultrafine particles greater than HEPA filtration in live operating rooms and kills biologic warfare surrogate. <i>American Journal of Infection Control</i> , 2020, 48, 777-780.	2.3	10
41	Use of Ultrasonic Sensors for Characterization of Membrane Fouling and Cleaning. <i>Journal of Engineered Fibers and Fabrics</i> , 2008, 3, 155892500800300.	1.0	8
42	Reduction of the background magnetic field inhibits ability of <i>Drosophila melanogaster</i> to survive ionizing radiation. <i>Bioelectromagnetics</i> , 2012, 33, 706-709.	1.6	8
43	Occurrence of respiratory viruses on school desks. <i>American Journal of Infection Control</i> , 2021, 49, 464-468.	2.3	8
44	Use of Sustainable Antimicrobial Aggregates for the In-Situ Inhibition of Biogenic Corrosion on Concrete Sewer Pipes. <i>MRS Advances</i> , 2019, 4, 2939-2949.	0.9	7
45	Aerosol fluorescence, airborne hexosaminidase, and quantitative genomics distinguish reductions in airborne fungal loads following major school renovations. <i>Indoor Air</i> , 2022, 32, .	4.3	6
46	Diffusion susceptibility demonstrates relative inhibition potential of sorbent-immobilized heavy metals against sulfur oxidizing acidophiles. <i>Journal of Microbiological Methods</i> , 2016, 131, 42-44.	1.6	5
47	Engineered addition of slag fines for the sequestration of phosphate and sulfide during mesophilic anaerobic digestion. <i>Water Environment Research</i> , 2020, 92, 455-464.	2.7	5
48	Anaerobic Digestion of Aircraft Deicing Fluid Wastes: Interactions and Toxicity of Corrosion Inhibitors and Surfactants. <i>Water Environment Research</i> , 2002, 74, 149-158.	2.7	4
49	Simultaneous oligonucleotide probe hybridization and immunostaining for in situ detection of <i>Gordona</i> species in activated sludge. <i>FEMS Microbiology Ecology</i> , 1999, 29, 129-136.	2.7	4
50	Identification and quantification of <i>Gordona amarae</i> strains in activated sludge systems using comparative rRNA sequence analysis and phylogenetic hybridization probes. <i>Water Science and Technology</i> , 1998, 37, 521-525.	2.5	4
51	Direct-Read Fluorescence-Based Measurements of Bioaerosol Exposure in Home Healthcare. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3613.	2.6	4
52	ACHIEVING EFFLUENT PHOSPHORUS LIMITS WHILE TREATING AN INTERMITTENTLY PHOSPHORUS DEFICIENT WASTEWATER. <i>Proceedings of the Water Environment Federation</i> , 2005, 2005, 2634-2646.	0.0	1
53	Flocculation and Re-growth of <i>Mycobacterium avium</i> after ozone exposure. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 74-84.	0.0	1
54	(1 α ,25(OH) $_2$ -Glucan induces multimodal toxicity responses in parallel exposures of model human lung epithelial cells and immature macrophage. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 379-387.	3.3	1

#	ARTICLE	IF	CITATIONS
55	ANAEROBIC DIGESTION OF AIRCRAFT DEICING FLUID WASTES: INTERACTIONS AND TOXICITY OF CORROSION INHIBITORS AND SURFACTANTS. Proceedings of the Water Environment Federation, 2001, 2001, 25-48.	0.0	0