Mark Hernandez

List of Publications by Year
in descending order

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	Direct-Read Fluorescence-Based Measurements of Bioaerosol Exposure in Home Healthcare. International Journal of Environmental Research and Public Health, 2022, 19, 3613.	2.6	4
2	Aerosol fluorescence, airborne hexosaminidase, and quantitative genomics distinguish reductions in airborne fungal loads following major school renovations. Indoor Air, 2022, 32, .	4.3	6
3	Occurrence of respiratory viruses on school desks. American Journal of Infection Control, 2021, 49, 464-468.	2.3	8
4	Engineered addition of slag fines for the sequestration of phosphate and sulfide during mesophilic anaerobic digestion. Water Environment Research, 2020, 92, 455-464.	2.7	5
5	Removal of radionuclides from acidic solution by activated carbon impregnated with methyl- and carboxy-benzotriazoles. Scientific Reports, 2020, 10, 11712.	3.3	11
6	Particle control reduces fine and ultrafine particles greater than HEPA filtration in live operating rooms and kills biologic warfare surrogate. American Journal of Infection Control, 2020, 48, 777-780.	2.3	10
7	(1â€‰â†’â€‰3) Î²-Glucan induces multimodal toxicity responses in parallel exposures of model human lung epithelial cells and immature macrophage. Air Quality, Atmosphere and Health, 2019, 12, 379-387.	3.3	1
8	Use of Sustainable Antimicrobial Aggregates for the In-Situ Inhibition of Biogenic Corrosion on Concrete Sewer Pipes. MRS Advances, 2019, 4, 2939-2949.	0.9	7
9	High fidelity recovery of airborne microbial genetic materials by direct condensation capture into genomic preservatives. Journal of Microbiological Methods, 2019, 157, 1-3.	1.6	12
10	Chamber catalogues of optical and fluorescent signatures distinguish bioaerosol classes. Atmospheric Measurement Techniques, 2016, 9, 3283-3292.	3.1	87
11	Diffusion susceptibility demonstrates relative inhibition potential of sorbent-immobilized heavy metals against sulfur oxidizing acidophiles. Journal of Microbiological Methods, 2016, 131, 42-44.	1.6	5
12	The Microbiota, Immunoregulation, and Mental Health: Implications for Public Health. Current Environmental Health Reports, 2016, 3, 270-286.	6.7	150
13	Microbial aerosol liberation from soiled textiles isolated during routine residuals handling in a modern health care setting. Microbiome, 2015, 3, 72.	11.1	33
14	High-Resolution Microbial Community Succession of Microbially Induced Concrete Corrosion in Working Sanitary Manholes. PLoS ONE, 2015, 10, e0116400.	2.5	30
15	A Toxicology Suite Adapted for Comparing Parallel Toxicity Responses of Model Human Lung Cells to Diesel Exhaust Particles and Their Extracts. Aerosol Science and Technology, 2015, 49, 599-610.	3.1	12
16	The Hospital Microbiome Project: Meeting report for the 2nd Hospital Microbiome Project, Chicago, USA, January 15th, 2013. Standards in Genomic Sciences, 2013, 8, 571-579.	1.5	11
17	Reduction of the background magnetic field inhibits ability of Drosophila melanogaster to survive ionizing radiation. Bioelectromagnetics, 2012, 33, 706-709.	1.6	8
18	Monitoring Protein Fouling on Polymeric Membranes Using Ultrasonic Frequency-Domain Reflectometry. Membranes, 2011, 1, 195-216.	3.0	19

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19	Biofouling potential of industrial fermentation broth components during microfiltration. Journal of Membrane Science, 2010, 349, 44-55.	8.2	19
20	Reduction of the earth's magnetic field inhibits growth rates of model cancer cell lines. Bioelectromagnetics, 2010, 31, 649-655.	1.6	61
21	Biogenic sulfuric acid attack on different types of commercially produced concrete sewer pipes. Cement and Concrete Research, 2010, 40, 293-301.	11.0	133
22	Inactivation of Airborne Microorganisms Using Novel Ultraviolet Radiation Sources in Reflective Flow-Through Control Devices. Aerosol Science and Technology, 2010, 44, 541-550.	3.1	46
23	Molecular Thermometry. Pediatric Research, 2010, 67, 469-475.	2.3	64
24	Use of Ultrasonic Sensors for Characterization of Membrane Fouling and Cleaning. Journal of Engineered Fibers and Fabrics, 2008, 3, 155892500800300.	1.0	8
25	Ultraviolet germicidal irradiation inactivation of airborne fungal spores and bacteria in upper-room air and HVAC in-duct configurations. Journal of Environmental Engineering and Science, 2007, 6, 1-9.	0.8	40
26	Flocculation and Re-growth of <I>Mycobacterium avium</I> after ozone exposure. Proceedings of the Water Environment Federation, 2007, 2007, 74-84.	0.0	1
27	Ultrasonic monitoring of earlyÂstage biofilm growth on polymeric surfaces. Journal of Microbiological Methods, 2007, 68, 458-467.	1.6	51
28	Real-time PCR for detection of the Aspergillus genus. Journal of Environmental Monitoring, 2007, 9, 599.	2.1	20
29	Incorporating polymerase chain reaction-based identification, population characterization, and quantification of microorganisms into aerosol science: A review. Atmospheric Environment, 2006, 40, 3941-3961.	4.1	181
30	UV Air Cleaners and Upper-Room Air Ultraviolet Germicidal Irradiation for Controlling Airborne Bacteria and Fungal Spores. Journal of Occupational and Environmental Hygiene, 2006, 3, 536-546.	1.0	83
31	ACHIEVING EFFLUENT PHOSPHORUS LIMITS WHILE TREATING AN INTERMITTENTLY PHOSPHORUS DEFICIENT WASTEWATER. Proceedings of the Water Environment Federation, 2005, 2005, 2634-2646.	0.0	1
32	Effects of Ceiling-Mounted HEPA-UV Air Filters on Airborne Bacteria Concentrations in an Indoor Therapy Pool Building. Journal of the Air and Waste Management Association, 2005, 55, 210-218.	1.9	14
33	Effects of Soluble Ferriâ“Hydroxide Complexes on Microbial Neutralization of Acid Mine Drainage. Environmental Science & Technology, 2005, 39, 7826-7832.	10.0	15
34	Impact of Environmental Factors on Efficacy of Upper-Room Air Ultraviolet Germicidal Irradiation for Inactivating Airborne Mycobacteria. Environmental Science & Technology, 2005, 39, 9656-9664.	10.0	86
35	Efficacy of ultraviolet germicidal irradiation of upper-room air in inactivating airborne bacterial spores and mycobacteria in full-scale studies. Atmospheric Environment, 2003, 37, 405-419.	4.1	136
36	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. Journal of Microbiological Methods, 2003, 52, 59-68.	1.6	31

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37	Rapid Immunoassays for Detection of UV-Induced Cyclobutane Pyrimidine Dimers in Whole Bacterial Cells. Applied and Environmental Microbiology, 2002, 68, 2542-2549.	3.1	20
38	Anaerobic Digestion of Aircraft Deicing Fluid Wastes: Interactions and Toxicity of Corrosion Inhibitors and Surfactants. Water Environment Research, 2002, 74, 149-158.	2.7	4
39	In situ assessment of active Thiobacillus species in corroding concrete sewers using fluorescent RNA probes. International Biodeterioration and Biodegradation, 2002, 49, 271-276.	3.9	59
40	Assessment of in-situ bioremediation at a refinery waste-contaminated site and an aviation gasoline contaminated site. Biodegradation, 2002, 13, 79-90.	3.0	29
41	Quantification of Nitrifying Bacterial Populations in a Full-Scale Nitrifying Trickling Filter Using Fluorescent In Situ Hybridization. Water Environment Research, 2001, 73, 329-338.	2.7	35
42	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
43	Photoreactivation in Airborne Mycobacterium parafortuitum. Applied and Environmental Microbiology, 2001, 67, 4225-4232.	3.1	60
44	Effects of Relative Humidity on the Ultraviolet Induced Inactivation of Airborne Bacteria. Aerosol Science and Technology, 2001, 35, 728-740.	3.1	150
45	Development and Application of Small-Subunit rRNA Probes for Assessment of Selected Thiobacillus Species and Members of the Genus Acidiphilium. Applied and Environmental Microbiology, 2000, 66, 3065-3072.	3.1	73
46	A new direct microscopy based method for evaluating in-situ bioremediation. Journal of Hazardous Materials, 1999, 67, 299-312.	12.4	37
47	Simultaneous oligonucleotide probe hybridization and immunostaining for in situ detection of Gordona species in activated sludge. FEMS Microbiology Ecology, 1999, 29, 129-136.	2.7	16
48	Application of a tetrazolium dye as an indicator of viability in anaerobic bacteria. Journal of Microbiological Methods, 1999, 37, 231-243.	1.6	81
49	A Combined Fluorochrome Method for Quantitation of Metabolically Active and Inactive Airborne Bacteria. Aerosol Science and Technology, 1999, 30, 145-160.	3.1	39
50	Simultaneous oligonucleotide probe hybridization and immunostaining for in situ detection of Gordona species in activated sludge. FEMS Microbiology Ecology, 1999, 29, 129-136.	2.7	4
51	Characterization of filamentous foaming in activated sludge systems using oligonucleotide hybridization probes and antibody probes. Water Science and Technology, 1998, 37, 485-493.	2.5	38
52	Quantification of Gordona amarae Strains in Foaming Activated Sludge and Anaerobic Digester Systems with Oligonucleotide Hybridization Probes. Applied and Environmental Microbiology, 1998, 64, 2503-2512.	3.1	68
53	Identification and quantification of Gordona amarae strains in activated sludge systems using comparative rRNA sequence analysis and phylogenetic hybridization probes. Water Science and Technology, 1998, 37, 521-525.	2.5	4
54	The fate of Nocardia in anaerobic digestion. Water Environment Research, 1994, 66, 828-835.	2.7	16

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55	Mass and Viability Estimations of Nocardia in Activated Sludge and Anaerobic Digesters Using Conventional Stains and Immunofluorescent Methods. Water Science and Technology, 1994, 29, 249-259.	2.5	35