

Pei-Ying Hong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4537867/pei-ying-hong-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

3,020
citations

32
h-index

51
g-index

119
ext. papers

3,765
ext. citations

6.3
avg, IF

5.66
L-index

#	Paper	IF	Citations
108	Biofilm formation characteristics of bacterial isolates retrieved from a reverse osmosis membrane. <i>Environmental Science & Technology</i> , 2005 , 39, 7541-50	10.3	182
107	Pyrosequencing analysis of bacterial biofilm communities in water meters of a drinking water distribution system. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5631-5	4.8	157
106	Removal of bacterial contaminants and antibiotic resistance genes by conventional wastewater treatment processes in Saudi Arabia: Is the treated wastewater safe to reuse for agricultural irrigation?. <i>Water Research</i> , 2015 , 73, 277-90	12.5	133
105	Phylogenetic analysis of the fecal microbial community in herbivorous land and marine iguanas of the Galápagos Islands using 16S rRNA-based pyrosequencing. <i>ISME Journal</i> , 2011 , 5, 1461-70	11.9	103
104	Xylan utilization in human gut commensal bacteria is orchestrated by unique modular organization of polysaccharide-degrading enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3708-17	11.5	98
103	Quantitative effects of position and type of single mismatch on single base primer extension. <i>Journal of Microbiological Methods</i> , 2009 , 77, 267-75	2.8	97
102	Pyrosequencing-based analysis of the mucosal microbiota in healthy individuals reveals ubiquitous bacterial groups and micro-heterogeneity. <i>PLoS ONE</i> , 2011 , 6, e25042	3.7	82
101	Environmental and Public Health Implications of Water Reuse: Antibiotics, Antibiotic Resistant Bacteria, and Antibiotic Resistance Genes. <i>Antibiotics</i> , 2013 , 2, 367-99	4.9	79
100	Hydroxyl functionalized polytriazole-co-polyoxadiazole as substrates for forward osmosis membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3960-73	9.5	78
99	Metagenomic analysis of DNA viruses in a wastewater treatment plant in tropical climate. <i>Environmental Microbiology</i> , 2012 , 14, 441-52	5.2	76
98	Comparative analysis of fecal microbiota in infants with and without eczema. <i>PLoS ONE</i> , 2010 , 5, e9964	3.7	71
97	Sustainable organic loading rate and energy recovery potential of mesophilic anaerobic membrane bioreactor for municipal wastewater treatment. <i>Bioresource Technology</i> , 2014 , 166, 326-34	11	68
96	Removal of Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes Affected by Varying Degrees of Fouling on Anaerobic Microfiltration Membranes. <i>Environmental Science & Technology</i> , 2017 , 51, 12200-12209	10.3	64
95	Monitoring airborne biotic contaminants in the indoor environment of pig and poultry confinement buildings. <i>Environmental Microbiology</i> , 2012 , 14, 1420-31	5.2	63
94	Monitoring the perturbation of soil and groundwater microbial communities due to pig production activities. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2620-9	4.8	62
93	Design of anaerobic membrane bioreactors for the valorization of dilute organic carbon waste streams. <i>Energy and Environmental Science</i> , 2016 , 9, 1102-1112	35.4	59
92	Reusing Treated Wastewater: Consideration of the Safety Aspects Associated with Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>Water (Switzerland)</i> , 2018 , 10, 244	3	52

91	Silver-enhanced block copolymer membranes with biocidal activity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18497-501	9.5	52
90	Organic micropollutants in aerobic and anaerobic membrane bioreactors: Changes in microbial communities and gene expression. <i>Bioresource Technology</i> , 2016 , 218, 882-91	11	51
89	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. <i>Langmuir</i> , 2019 , 35, 1284-1293	4	49
88	Does chlorination of seawater reverse osmosis membranes control biofouling?. <i>Water Research</i> , 2015 , 78, 84-97	12.5	46
87	Halomonas sulfidaeris-dominated microbial community inhabits a 1.8 km-deep subsurface Cambrian Sandstone reservoir. <i>Environmental Microbiology</i> , 2014 , 16, 1695-708	5.2	46
86	Carriage of antibiotic-resistant enteric bacteria varies among sites in Galapagos reptiles. <i>Journal of Wildlife Diseases</i> , 2012 , 48, 56-67	1.3	43
85	Ecological drift and local exposures drive enteric bacterial community differences within species of Galapagos iguanas. <i>Molecular Ecology</i> , 2012 , 21, 1779-88	5.7	42
84	Characterization of biofoulants illustrates different membrane fouling mechanisms for aerobic and anaerobic membrane bioreactors. <i>Separation and Purification Technology</i> , 2016 , 157, 192-202	8.3	40
83	Relative abundance of Bacteroides spp. in stools and wastewaters as determined by hierarchical oligonucleotide primer extension. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2882-93	4.8	40
82	Water Disinfection Byproducts Increase Natural Transformation Rates of Environmental DNA in Acinetobacter baylyi ADP1. <i>Environmental Science & Technology</i> , 2019 , 53, 6520-6528	10.3	38
81	Differences in microbial communities and performance between suspended and attached growth anaerobic membrane bioreactors treating synthetic municipal wastewater. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 800-813	4.2	37
80	Two new xylanases with different substrate specificities from the human gut bacterium Bacteroides intestinalis DSM 17393. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2084-93	4.8	37
79	Hollow fiber membrane lumen modified by polyzwitterionic grafting. <i>Journal of Membrane Science</i> , 2017 , 522, 1-11	9.6	35
78	Evaluation of stool microbiota signatures in two cohorts of Asian (Singapore and Indonesia) newborns at risk of atopy. <i>BMC Microbiology</i> , 2011 , 11, 193	4.5	34
77	Molecular-based detection of potentially pathogenic bacteria in membrane bioreactor (MBR) systems treating municipal wastewater: a case study. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 5370-5380	5.1	33
76	Performance and microbial community variations of anaerobic digesters under increasing tetracycline concentrations. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 5505-5517	5.7	32
75	Isolation and Characterization of NDM-Positive Escherichia coli from Municipal Wastewater in Jeddah, Saudi Arabia. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 5223-31	5.9	32
74	Effect of pre-acclimation of granular activated carbon on microbial electrolysis cell startup and performance. <i>Bioelectrochemistry</i> , 2017 , 113, 20-25	5.6	28

73	Estimating the minimum number of SARS-CoV-2 infected cases needed to detect viral RNA in wastewater: To what extent of the outbreak can surveillance of wastewater tell us?. <i>Environmental Research</i> , 2021 , 195, 110748	7.9	28
72	Increasing tetracycline concentrations on the performance and communities of mixed microalgae-bacteria photo-bioreactors. <i>Algal Research</i> , 2018 , 29, 249-256	5	28
71	Drinking Water Microbiome Project: Is it Time?. <i>Trends in Microbiology</i> , 2019 , 27, 670-677	12.4	27
70	Removal of bacterial cells, antibiotic resistance genes and integrase genes by on-site hospital wastewater treatment plants: surveillance of treated hospital effluent quality. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 293-303	4.2	25
69	Inactivation and Gene Expression of a Virulent Wastewater Escherichia coli Strain and the Nonvirulent Commensal Escherichia coli DSM1103 Strain upon Solar Irradiation. <i>Environmental Science & Technology</i> , 2017 , 51, 3649-3659	10.3	24
68	Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. <i>Water Research</i> , 2021 , 199, 117167	12.5	24
67	Identification and characterization of core sludge and biofilm microbiota in anaerobic membrane bioreactors. <i>Environment International</i> , 2019 , 133, 105165	12.9	23
66	Anaerobic Membrane Bioreactor Effluent Reuse: A Review of Microbial Safety Concerns. <i>Fermentation</i> , 2017 , 3, 39	4.7	23
65	Synthesis of highly porous poly(tert-butyl acrylate)-b-polysulfone-b-poly(tert-butyl acrylate) asymmetric membranes. <i>Polymer Chemistry</i> , 2016 , 7, 3076-3089	4.9	23
64	Membrane Bioreactor-Based Wastewater Treatment Plant in Saudi Arabia: Reduction of Viral Diversity, Load, and Infectious Capacity. <i>Water (Switzerland)</i> , 2017 , 9, 534	3	22
63	Genomic characterization of NDM-1 and 5, and OXA-181 carbapenemases in uropathogenic Escherichia coli isolates from Riyadh, Saudi Arabia. <i>PLoS ONE</i> , 2018 , 13, e0201613	3.7	21
62	Molecular-based approaches to characterize coastal microbial community and their potential relation to the trophic state of Red Sea. <i>Scientific Reports</i> , 2015 , 5, 9001	4.9	21
61	A high-throughput and quantitative hierarchical oligonucleotide primer extension (HOPE)-based approach to identify sources of faecal contamination in water bodies. <i>Environmental Microbiology</i> , 2009 , 11, 1672-81	5.2	21
60	Acquisition of Extracellular DNA by ADP1 in Response to Solar and UV-C Disinfection. <i>Environmental Science & Technology</i> , 2019 , 53, 10312-10319	10.3	19
59	Quorum Sensing and the Use of Quorum Quenchers as Natural Biocides to Inhibit Sulfate-Reducing Bacteria. <i>Antibiotics</i> , 2016 , 5,	4.9	18
58	Microbial diversity and biosignatures of amorphous silica deposits in orthoquartzite caves. <i>Scientific Reports</i> , 2018 , 8, 17569	4.9	18
57	Lignocellulose-derived thin stillage composition and efficient biological treatment with a high-rate hybrid anaerobic bioreactor system. <i>Biotechnology for Biofuels</i> , 2016 , 9, 120	7.8	17
56	Rapid Size-Based Protein Discrimination inside Hybrid Isoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8507-8516	9.5	16

55	Antibiofilm effect enhanced by modification of 1,2,3-triazole and palladium nanoparticles on polysulfone membranes. <i>Scientific Reports</i> , 2016 , 6, 24289	4.9	16
54	Assessing the Groundwater Quality at a Saudi Arabian Agricultural Site and the Occurrence of Opportunistic Pathogens on Irrigated Food Produce. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 12391-411	4.6	16
53	Phenotypic and Phylogenetic Identification of Coliform Bacteria Obtained Using 12 Coliform Methods Approved by the U.S. Environmental Protection Agency. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6012-23	4.8	15
52	Evaluation of two autoinducer-2 quantification methods for application in marine environments. <i>Journal of Applied Microbiology</i> , 2018 , 124, 1469-1479	4.7	15
51	Chlorination or monochloramination: Balancing the regulated trihalomethane formation and microbial inactivation in marine aquaculture waters. <i>Aquaculture</i> , 2017 , 480, 94-102	4.4	15
50	Bacteriophages To Sensitize a Pathogenic New Delhi Metallo β -Lactamase-Positive Escherichia coli to Solar Disinfection. <i>Environmental Science & Technology</i> , 2018 , 52, 14331-14341	10.3	15
49	Fate and Persistence of a Pathogenic NDM-1-Positive Escherichia coli Strain in Anaerobic and Aerobic Sludge Microcosms. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	13
48	Salinity-Mediated Increment in Sulfate Reduction, Biofilm Formation, and Quorum Sensing: A Potential Connection Between Quorum Sensing and Sulfate Reduction?. <i>Frontiers in Microbiology</i> , 2019 , 10, 188	5.7	13
47	Identification of methanogenesis and syntrophy as important microbial metabolic processes for optimal thermophilic anaerobic digestion of energy cane thin stillage. <i>Bioresource Technology Reports</i> , 2019 , 7, 100254	4.1	13
46	The Effect of the 2015 Earthquake on the Bacterial Community Compositions in Water in Nepal. <i>Frontiers in Microbiology</i> , 2017 , 8, 2380	5.7	13
45	Dynamics of microbial communities in an integrated ultrafiltrationReverse osmosis desalination pilot plant located at the Arabian Gulf. <i>Desalination and Water Treatment</i> , 2016 , 57, 16310-16323		12
44	Effect of Quorum Sensing on the Ability of To Form Biofilms and To Biocorrode Carbon Steel in Saline Conditions. <i>Applied and Environmental Microbiology</i> , 2019 , 86,	4.8	12
43	Metagenomic-based study of the phylogenetic and functional gene diversity in Galapagos land and marine iguanas. <i>Microbial Ecology</i> , 2015 , 69, 444-56	4.4	11
42	Immune-modulatory genomic properties differentiate gut microbiota of infants with and without eczema. <i>PLoS ONE</i> , 2017 , 12, e0184955	3.7	11
41	In situ growth of biocidal AgCl crystals in the top layer of asymmetric polytriazole membranes. <i>RSC Advances</i> , 2016 , 6, 46696-46701	3.7	11
40	Water quality, seasonality, and trajectory of an aquaculture-wastewater plume in the Red Sea. <i>Aquaculture Environment Interactions</i> , 2018 , 10, 61-77	2.9	10
39	Discovering, Characterizing, and Applying Acyl Homoserine Lactone-Quenching Enzymes to Mitigate Microbe-Associated Problems Under Saline Conditions. <i>Frontiers in Microbiology</i> , 2019 , 10, 823	5.7	9
38	Translational Molecular Ecology in practice: Linking DNA-based methods to actionable marine environmental management. <i>Science of the Total Environment</i> , 2020 , 744, 140780	10.2	9

37	Persistence of <i>Bacteroides ovatus</i> under simulated sunlight irradiation. <i>BMC Microbiology</i> , 2014 , 14, 1784-5	9
36	An aerated and fluidized bed membrane bioreactor for effective wastewater treatment with low membrane fouling. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 994-1003	4.2 9
35	An Increase of Abundance and Transcriptional Activity for <i>Acinetobacter junii</i> Post Wastewater Treatment. <i>Water (Switzerland)</i> , 2018 , 10, 436	3 9
34	Bacteriophage Infectivity Against in Saline Conditions. <i>Frontiers in Microbiology</i> , 2018 , 9, 875	5.7 8
33	Application of hierarchical oligonucleotide primer extension (HOPE) to assess relative abundances of ammonia- and nitrite-oxidizing bacteria. <i>BMC Microbiology</i> , 2017 , 17, 85	4.5 8
32	DNAzyme-based biosensor as a rapid and accurate verification tool to complement simultaneous enzyme-based media for <i>E. coli</i> detection. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2260-2268	4.2 8
31	Metagenomics-based evaluation of groundwater microbial profiles in response to treated wastewater discharge. <i>Environmental Research</i> , 2020 , 180, 108835	7.9 8
30	Metagenomics as a Tool To Monitor Reclaimed-Water Quality. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8 7
29	Plankton community assessment in anthropogenic-impacted oligotrophic coastal regions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 31017-31030	5.1 7
28	Impact of acclimation methods on microbial communities and performance of anaerobic fluidized bed membrane bioreactors. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 1041-1048	4.2 6
27	A type dependent effect of treated wastewater matrix on seed germination and food production. <i>Science of the Total Environment</i> , 2021 , 769, 144573	10.2 6
26	A Robust, Safe, and Scalable Magnetic Nanoparticle Workflow for RNA Extraction of Pathogens from Clinical and Wastewater Samples. <i>Global Challenges</i> , 2021 , 5, 2000068	4.3 6
25	Thin Film Polyamide Membranes with Photoresponsive Antibacterial Activity. <i>ChemistrySelect</i> , 2017 , 2, 6612-6616	1.8 5
24	The use of UV/HO to facilitate removal of emerging contaminants in anaerobic membrane bioreactor effluents. <i>Environmental Research</i> , 2021 , 198, 110479	7.9 5
23	Varying occurrence of extended-spectrum beta-lactamase bacteria among three produce types. <i>Journal of Food Safety</i> , 2018 , 38, e12373	2 5
22	Influence of biofilm thickness on the removal of thirteen different organic micropollutants via a Membrane Aerated Biofilm Reactor (MABR).. <i>Journal of Hazardous Materials</i> , 2022 , 432, 128698	12.8 5
21	Hierarchical oligonucleotide primer extension as a time- and cost-effective approach for quantitative determination of <i>Bifidobacterium</i> spp. in infant feces. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2573-6	4.8 4
20	Understanding the antifouling mechanisms related to copper oxide and zinc oxide nanoparticles in anaerobic membrane bioreactors. <i>Environmental Science: Nano</i> , 2019 , 6, 3467-3479	7.1 4

19	Recent Update on UV Disinfection to Fulfill the Disinfection Credit Value for Enteric Viruses in Water. <i>Environmental Science & Technology</i> , 2021 ,	10.3	4
18	Genome-Resolved Metagenomics and Antibiotic Resistance Genes Analysis in Reclaimed Water Distribution Systems. <i>Water (Switzerland)</i> , 2020 , 12, 3477	3	3
17	Editorial perspective: Viruses in wastewater: Wading into the knowns and unknowns. <i>Environmental Research</i> , 2021 , 196, 110255	7.9	3
16	Antibiotic-Resistant Bacteria and Resistance Genes in the WaterFood Nexus of the Agricultural Environment 2015 , 325-346		2
15	Potential Dissemination of ARB and ARGs into Soil Through the Use of Treated Wastewater for Agricultural Irrigation: Is It a True Cause for Concern?. <i>Soil Biology</i> , 2017 , 105-139	1	2
14	Nanoparticles applied in membrane bioreactors: potential impact on reactor performance and microbial communities 2020 , 207-236		2
13	Enteric virus in reclaimed water from treatment plants with different multi-barrier strategies: Trade-off assessment in treatment extent and risks. <i>Science of the Total Environment</i> , 2021 , 776, 146039 ^{10.2}		2
12	Flexible isoporous air filters for high-efficiency particle capture. <i>Polymer</i> , 2021 , 213, 123278	3.9	2
11	Calibration and validation for a real-time membrane bioreactor: A sliding window approach. <i>Journal of Process Control</i> , 2021 , 98, 92-105	3.9	2
10	Transition from unclassified Ktedonobacterales to Actinobacteria during amorphous silica precipitation in a quartzite cave environment. <i>Scientific Reports</i> , 2021 , 11, 3921	4.9	2
9	Attached-growth configuration outperforms continuously stirred tank anaerobic membrane bioreactors in alleviating membrane biofouling. <i>Environmental Research</i> , 2021 , 199, 111272	7.9	2
8	UV and bacteriophages as a chemical-free approach for cleaning membranes from anaerobic bioreactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
7	Sliding window neural network based sensing of bacteria in wastewater treatment plants. <i>Journal of Process Control</i> , 2022 , 110, 35-44	3.9	1
6	Nonlinear Model Predictive Control Design for BSM-MBR: Benchmark of Membrane Bioreactor. <i>IFAC-PapersOnLine</i> , 2020 , 53, 16524-16530	0.7	1
5	Inactivation and Loss of Infectivity of Enterovirus 70 by Solar Irradiation. <i>Water (Switzerland)</i> , 2019 , 11, 64	3	1
4	A DNA-mimic contact-active functional group for antifouling ultrafiltration membranes. <i>Chemosphere</i> , 2019 , 216, 669-676	8.4	1
3	Temperature Responses of Heterotrophic Bacteria in Co-culture With a Red Sea Strain. <i>Frontiers in Microbiology</i> , 2021 , 12, 612732	5.7	0
2	Elucidating the Role of Virulence Traits in the Survival of Pathogenic PI-7 Following Disinfection. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 614186	5.8	

- 1 Mitigating Antimicrobial Resistance Risks When Using Reclaimed Municipal Wastewater for Agriculture. *Handbook of Environmental Chemistry*, **2020**, 245-265

o.8