

Pei-Ying Hong

List of Publications by Year in Descending Order

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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	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
107	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
106	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
105	Temperature Responses of Heterotrophic Bacteria in Co-culture With a Red Sea Strain. <i>Frontiers in Microbiology</i> , 2021 , 12, 612732	5.7	0
104	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
103	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
102	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
101	Flexible isoporous air filters for high-efficiency particle capture. <i>Polymer</i> , 2021 , 213, 123278	3.9	2
100	Editorial perspective: Viruses in wastewater: Wading into the knowns and unknowns. <i>Environmental Research</i> , 2021 , 196, 110255	7.9	3
99	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
98	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
97	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
96	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
95	Attached-growth configuration outperforms continuously stirred tank anaerobic membrane bioreactors in alleviating membrane biofouling. <i>Environmental Research</i> , 2021 , 199, 111272	7.9	2
94	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
93	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
92	Genome-Resolved Metagenomics and Antibiotic Resistance Genes Analysis in Reclaimed Water Distribution Systems. <i>Water (Switzerland)</i> , 2020 , 12, 3477	3	3

91	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	
90	Metagenomics as a Tool To Monitor Reclaimed-Water Quality. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	7
89	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
88	Mitigating Antimicrobial Resistance Risks When Using Reclaimed Municipal Wastewater for Agriculture. <i>Handbook of Environmental Chemistry</i> , 2020 , 245-265	0.8	
87	Nonlinear Model Predictive Control Design for BSM-MBR: Benchmark of Membrane Bioreactor. <i>IFAC-PapersOnLine</i> , 2020 , 53, 16524-16530	0.7	1
86	Nanoparticles applied in membrane bioreactors: potential impact on reactor performance and microbial communities 2020 , 207-236		2
85	Metagenomics-based evaluation of groundwater microbial profiles in response to treated wastewater discharge. <i>Environmental Research</i> , 2020 , 180, 108835	7.9	8
84	Identification and characterization of core sludge and biofilm microbiota in anaerobic membrane bioreactors. <i>Environment International</i> , 2019 , 133, 105165	12.9	23
83	Rapid Size-Based Protein Discrimination inside Hybrid Isoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8507-8516	9.5	16
82	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
81	Water Disinfection Byproducts Increase Natural Transformation Rates of Environmental DNA in <i>Acinetobacter baylyi</i> ADP1. <i>Environmental Science & Technology</i> , 2019 , 53, 6520-6528	10.3	38
80	Drinking Water Microbiome Project: Is it Time?. <i>Trends in Microbiology</i> , 2019 , 27, 670-677	12.4	27
79	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
78	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. <i>Langmuir</i> , 2019 , 35, 1284-1293	4	49
77	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
76	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
75	Inactivation and Loss of Infectivity of Enterovirus 70 by Solar Irradiation. <i>Water (Switzerland)</i> , 2019 , 11, 64	3	1
74	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

73	DNAzyme-based biosensor as a rapid and accurate verification tool to complement simultaneous enzyme-based media for E. coli detection. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2260-2268	4.2	8
72	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
71	A DNA-mimic contact-active functional group for antifouling ultrafiltration membranes. <i>Chemosphere</i> , 2019 , 216, 669-676	8.4	1
70	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
69	Bacteriophage Infectivity Against in Saline Conditions. <i>Frontiers in Microbiology</i> , 2018 , 9, 875	5.7	8
68	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
67	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
66	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
65	Increasing tetracycline concentrations on the performance and communities of mixed microalgae-bacteria photo-bioreactors. <i>Algal Research</i> , 2018 , 29, 249-256	5	28
64	Varying occurrence of extended-spectrum beta-lactamase bacteria among three produce types. <i>Journal of Food Safety</i> , 2018 , 38, e12373	2	5
63	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
62	Microbial diversity and biosignatures of amorphous silica deposits in orthoquartzite caves. <i>Scientific Reports</i> , 2018 , 8, 17569	4.9	18
61	Plankton community assessment in anthropogenic-impacted oligotrophic coastal regions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 31017-31030	5.1	7
60	An Increase of Abundance and Transcriptional Activity for Acinetobacter junii Post Wastewater Treatment. <i>Water (Switzerland)</i> , 2018 , 10, 436	3	9
59	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
58	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
57	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
56	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

55	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
54	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
53	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
52	Thin Film Polyamide Membranes with Photoresponsive Antibacterial Activity. <i>ChemistrySelect</i> , 2017 , 2, 6612-6616	1.8	5
51	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
50	Hollow fiber membrane lumen modified by polyzwitterionic grafting. <i>Journal of Membrane Science</i> , 2017 , 522, 1-11	9.6	35
49	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
48	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
47	Anaerobic Membrane Bioreactor Effluent Reuse: A Review of Microbial Safety Concerns. <i>Fermentation</i> , 2017 , 3, 39	4.7	23
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	Immune-modulatory genomic properties differentiate gut microbiota of infants with and without eczema. <i>PLoS ONE</i> , 2017 , 12, e0184955	3.7	11
44	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
43	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
42	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
41	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
40	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
39	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
38	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

37	Dynamics of microbial communities in an integrated ultrafiltration-reverse osmosis desalination pilot plant located at the Arabian Gulf. <i>Desalination and Water Treatment</i> , 2016 , 57, 16310-16323		12
36	Quorum Sensing and the Use of Quorum Quenchers as Natural Biocides to Inhibit Sulfate-Reducing Bacteria. <i>Antibiotics</i> , 2016 , 5,	4.9	18
35	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
34	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
33	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
32	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
31	Metagenomic-based study of the phylogenetic and functional gene diversity in Galápagos land and marine iguanas. <i>Microbial Ecology</i> , 2015 , 69, 444-56	4.4	11
30	Antibiotic-Resistant Bacteria and Resistance Genes in the Water-Food Nexus of the Agricultural Environment 2015 , 325-346		2
29	Does chlorination of seawater reverse osmosis membranes control biofouling?. <i>Water Research</i> , 2015 , 78, 84-97	12.5	46
28	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
27	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
26	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
25	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
24	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
23	Hydroxyl functionalized polytriazole-co-polyoxadiazole as substrates for forward osmosis membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3960-73	9.5	78
22	Silver-enhanced block copolymer membranes with biocidal activity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18497-501	9.5	52
21	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
20	Two new xylanases with different substrate specificities from the human gut bacterium <i>Bacteroides intestinalis</i> DSM 17393. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2084-93	4.8	37

19	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
18	Persistence of <i>Bacteroides ovatus</i> under simulated sunlight irradiation. <i>BMC Microbiology</i> , 2014 , 14, 1784-5	4.5	9
17	<i>Halomonas sulfidaeris</i> -dominated microbial community inhabits a 1.8 km-deep subsurface Cambrian Sandstone reservoir. <i>Environmental Microbiology</i> , 2014 , 16, 1695-708	5.2	46
16	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
15	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
14	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
13	Metagenomic analysis of DNA viruses in a wastewater treatment plant in tropical climate. <i>Environmental Microbiology</i> , 2012 , 14, 441-52	5.2	76
12	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
11	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
10	Phylogenetic analysis of the fecal microbial community in herbivorous land and marine iguanas of the Galapagos Islands using 16S rRNA-based pyrosequencing. <i>ISME Journal</i> , 2011 , 5, 1461-70	11.9	103
9	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
8	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
7	Comparative analysis of fecal microbiota in infants with and without eczema. <i>PLoS ONE</i> , 2010 , 5, e9964	3.7	71
6	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
5	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
4	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
3	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
2	Relative abundance of <i>Bacteroides</i> 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

- 1 Biofilm formation characteristics of bacterial isolates retrieved from a reverse osmosis membrane. *Environmental Science & Technology*, **2005**, 39, 7541-50 10.3 182