

Pei-Ying Hong

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

4,232
citations

94269

37
h-index

128067

60
g-index

119
all docs

119
docs citations

119
times ranked

6513
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofilm Formation Characteristics of Bacterial Isolates Retrieved from a Reverse Osmosis Membrane. <i>Environmental Science & Technology</i> , 2005, 39, 7541-7550.	4.6	219
2	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, 277-290.	5.3	180
3	Pyrosequencing Analysis of Bacterial Biofilm Communities in Water Meters of a Drinking Water Distribution System. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5631-5635.	1.4	166
4	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, 1461-1470.	4.4	142
5	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.	3.3	137
6	Quantitative effects of position and type of single mismatch on single base primer extension. <i>Journal of Microbiological Methods</i> , 2009, 77, 267-275.	0.7	127
7	Environmental and Public Health Implications of Water Reuse: Antibiotics, Antibiotic Resistant Bacteria, and Antibiotic Resistance Genes. <i>Antibiotics</i> , 2013, 2, 367-399.	1.5	100
8	Metagenomic analysis of DNA viruses in a wastewater treatment plant in tropical climate. <i>Environmental Microbiology</i> , 2012, 14, 441-452.	1.8	98
9	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.	4.6	95
10	Monitoring airborne biotic contaminants in the indoor environment of pig and poultry confinement buildings. <i>Environmental Microbiology</i> , 2012, 14, 1420-1431.	1.8	94
11	Pyrosequencing-Based Analysis of the Mucosal Microbiota in Healthy Individuals Reveals Ubiquitous Bacterial Groups and Micro-Heterogeneity. <i>PLoS ONE</i> , 2011, 6, e25042.	1.1	91
12	Hydroxyl Functionalized Polytriazole- <i>co</i> -polyoxadiazole as Substrates for Forward Osmosis Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3960-3973.	4.0	88
13	Comparative Analysis of Fecal Microbiota in Infants with and without Eczema. <i>PLoS ONE</i> , 2010, 5, e9964.	1.1	87
14	Reusing Treated Wastewater: Consideration of the Safety Aspects Associated with Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>Water (Switzerland)</i> , 2018, 10, 244.	1.2	83
15	Sustainable organic loading rate and energy recovery potential of mesophilic anaerobic membrane bioreactor for municipal wastewater treatment. <i>Bioresource Technology</i> , 2014, 166, 326-334.	4.8	78
16	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.	4.6	76
17	Design of anaerobic membrane bioreactors for the valorization of dilute organic carbon waste streams. <i>Energy and Environmental Science</i> , 2016, 9, 1102-1112.	15.6	74
18	Monitoring the Perturbation of Soil and Groundwater Microbial Communities Due to Pig Production Activities. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2620-2629.	1.4	73

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19	Interfacial Polymerization of Zwitterionic Building Blocks for High-Flux Nanofiltration Membranes. <i>Langmuir</i> , 2019, 35, 1284-1293.	1.6	71
20	Does chlorination of seawater reverse osmosis membranes control biofouling?. <i>Water Research</i> , 2015, 78, 84-97.	5.3	67
21	Organic micropollutants in aerobic and anaerobic membrane bioreactors: Changes in microbial communities and gene expression. <i>Bioresource Technology</i> , 2016, 218, 882-891.	4.8	66
22	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.	3.7	64
23	Ecological drift and local exposures drive enteric bacterial community differences within species of Galápagos iguanas. <i>Molecular Ecology</i> , 2012, 21, 1779-1788.	2.0	61
24	Silver-Enhanced Block Copolymer Membranes with Biocidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18497-18501.	4.0	58
25	CARRIAGE OF ANTIBIOTIC-RESISTANT ENTERIC BACTERIA VARIES AMONG SITES IN GALÁPAGOS REPTILES. <i>Journal of Wildlife Diseases</i> , 2012, 48, 56-67.	0.3	57
26	Characterization of biofoulants illustrates different membrane fouling mechanisms for aerobic and anaerobic membrane bioreactors. <i>Separation and Purification Technology</i> , 2016, 157, 192-202.	3.9	56
27	<i>Halomonas sulfidaeris</i> -dominated microbial community inhabits a 1.8-km-deep subsurface Cambrian sandstone reservoir. <i>Environmental Microbiology</i> , 2014, 16, 1695-1708.	1.8	52
28	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.	2.7	52
29	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, 2084-2093.	1.4	50
30	Drinking Water Microbiome Project: Is it Time?. <i>Trends in Microbiology</i> , 2019, 27, 670-677.	3.5	50
31	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.	1.2	48
32	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.	5.3	48
33	Increasing tetracycline concentrations on the performance and communities of mixed microalgae-bacteria photo-bioreactors. <i>Algal Research</i> , 2018, 29, 249-256.	2.4	46
34	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, 2882-2893.	1.4	45
35	Isolation and Characterization of NDM-Positive <i>Escherichia coli</i> from Municipal Wastewater in Jeddah, Saudi Arabia. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5223-5231.	1.4	44
36	Performance and microbial community variations of anaerobic digesters under increasing tetracycline concentrations. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 5505-5517.	1.7	42

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37	Identification and characterization of core sludge and biofilm microbiota in anaerobic membrane bioreactors. <i>Environment International</i> , 2019, 133, 105165.	4.8	40
38	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.	1.3	39
39	Inactivation and Gene Expression of a Virulent Wastewater <i>Escherichia coli</i> Strain and the Nonvirulent Commensal <i>Escherichia coli</i> DSM1103 Strain upon Solar Irradiation. <i>Environmental Science & Technology</i> , 2017, 51, 3649-3659.	4.6	38
40	Hollow fiber membrane lumen modified by polyzwitterionic grafting. <i>Journal of Membrane Science</i> , 2017, 522, 1-11.	4.1	38
41	Effect of pre-acclimation of granular activated carbon on microbial electrolysis cell startup and performance. <i>Bioelectrochemistry</i> , 2017, 113, 20-25.	2.4	36
42	Acquisition of Extracellular DNA by <i>Acinetobacter baylyi</i> ADP1 in Response to Solar and UVC _{254nm} Disinfection. <i>Environmental Science & Technology</i> , 2019, 53, 10312-10319.	4.6	35
43	Genomic characterization of NDM-1 and 5, and OXA-181 carbapenemases in uropathogenic <i>Escherichia coli</i> isolates from Riyadh, Saudi Arabia. <i>PLoS ONE</i> , 2018, 13, e0201613.	1.1	34
44	Anaerobic Membrane Bioreactor Effluent Reuse: A Review of Microbial Safety Concerns. <i>Fermentation</i> , 2017, 3, 39.	1.4	33
45	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.	1.2	31
46	Evaluation of two autoinducer-2 quantification methods for application in marine environments. <i>Journal of Applied Microbiology</i> , 2018, 124, 1469-1479.	1.4	31
47	Microbial diversity and biosignatures of amorphous silica deposits in orthoquartzite caves. <i>Scientific Reports</i> , 2018, 8, 17569.	1.6	30
48	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.	6.5	30
49	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, 12391-12411.	1.2	28
50	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.	1.9	28
51	Rapid Size-Based Protein Discrimination inside Hybrid Isoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8507-8516.	4.0	28
52	Quorum Sensing and the Use of Quorum Quenchers as Natural Biocides to Inhibit Sulfate-Reducing Bacteria. <i>Antibiotics</i> , 2016, 5, 39.	1.5	27
53	Membrane Bioreactor-Based Wastewater Treatment Plant in Saudi Arabia: Reduction of Viral Diversity, Load, and Infectious Capacity. <i>Water (Switzerland)</i> , 2017, 9, 534.	1.2	27
54	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.	6.2	25

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55	Chlorination or monochloramination: Balancing the regulated trihalomethane formation and microbial inactivation in marine aquaculture waters. <i>Aquaculture</i> , 2017, 480, 94-102.	1.7	25
56	Bacteriophages To Sensitize a Pathogenic New Delhi Metallo β -Lactamase-Positive <i>Escherichia coli</i> to Solar Disinfection. <i>Environmental Science & Technology</i> , 2018, 52, 14331-14341.	4.6	25
57	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.	1.5	25
58	Effect of Quorum Sensing on the Ability of <i>Desulfovibrio vulgaris</i> To Form Biofilms and To Biocorrode Carbon Steel in Saline Conditions. <i>Applied and Environmental Microbiology</i> , 2019, 86, .	1.4	25
59	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.	1.6	24
60	The Effect of the 2015 Earthquake on the Bacterial Community Compositions in Water in Nepal. <i>Frontiers in Microbiology</i> , 2017, 8, 2380.	1.5	24
61	Translational Molecular Ecology in practice: Linking DNA-based methods to actionable marine environmental management. <i>Science of the Total Environment</i> , 2020, 744, 140780.	3.9	24
62	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.	1.0	23
63	The use of UV/H ₂ O ₂ to facilitate removal of emerging contaminants in anaerobic membrane bioreactor effluents. <i>Environmental Research</i> , 2021, 198, 110479.	3.7	23
64	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, 1672-1681.	1.8	22
65	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, 6012-6023.	1.4	21
66	Antibiofilm effect enhanced by modification of 1,2,3-triazole and palladium nanoparticles on polysulfone membranes. <i>Scientific Reports</i> , 2016, 6, 24289.	1.6	21
67	Metagenomics-based evaluation of groundwater microbial profiles in response to treated wastewater discharge. <i>Environmental Research</i> , 2020, 180, 108835.	3.7	18
68	Fate and Persistence of a Pathogenic NDM-1-Positive <i>Escherichia coli</i> Strain in Anaerobic and Aerobic Sludge Microcosms. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	17
69	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.	1.5	17
70	An Increase of Abundance and Transcriptional Activity for <i>Acinetobacter junii</i> Post Wastewater Treatment. <i>Water (Switzerland)</i> , 2018, 10, 436.	1.2	16
71	Application of hierarchical oligonucleotide primer extension (HOPE) to assess relative abundances of ammonia- and nitrite-oxidizing bacteria. <i>BMC Microbiology</i> , 2017, 17, 85.	1.3	15
72	Metagenomic-Based Study of the Phylogenetic and Functional Gene Diversity in Galápagos Land and Marine Iguanas. <i>Microbial Ecology</i> , 2015, 69, 444-456.	1.4	14

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73	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.	2.2	14
74	Metagenomics as a Tool To Monitor Reclaimed-Water Quality. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	14
75	Recent Update on UV Disinfection to Fulfill the Disinfection Credit Value for Enteric Viruses in Water. <i>Environmental Science & Technology</i> , 2021, 55, 16283-16298.	4.6	14
76	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.	1.5	13
77	Water quality, seasonality, and trajectory of an aquaculture-wastewater plume in the Red Sea. <i>Aquaculture Environment Interactions</i> , 2018, 10, 61-77.	0.7	13
78	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.	1.2	12
79	Transition from unclassified Ktedonobacterales to Actinobacteria during amorphous silica precipitation in a quartzite cave environment. <i>Scientific Reports</i> , 2021, 11, 3921.	1.6	12
80	A type dependent effect of treated wastewater matrix on seed germination and food production. <i>Science of the Total Environment</i> , 2021, 769, 144573.	3.9	12
81	Attached-growth configuration outperforms continuously stirred tank anaerobic membrane bioreactors in alleviating membrane biofouling. <i>Environmental Research</i> , 2021, 199, 111272.	3.7	12
82	Immune-modulatory genomic properties differentiate gut microbiota of infants with and without eczema. <i>PLoS ONE</i> , 2017, 12, e0184955.	1.1	12
83	In situ growth of biocidal AgCl crystals in the top layer of asymmetric polytriazole membranes. <i>RSC Advances</i> , 2016, 6, 46696-46701.	1.7	11
84	Bacteriophage Infectivity Against <i>Pseudomonas aeruginosa</i> in Saline Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 875.	1.5	11
85	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, .	3.3	11
86	Sliding window neural network based sensing of bacteria in wastewater treatment plants. <i>Journal of Process Control</i> , 2022, 110, 35-44.	1.7	11
87	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.	1.8	10
88	Persistence of <i>Bacteroides ovatus</i> under simulated sunlight irradiation. <i>BMC Microbiology</i> , 2014, 14, 178.	1.3	9
89	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.	1.2	9
90	Varying occurrence of extended-spectrum beta-lactamase bacteria among three produce types. <i>Journal of Food Safety</i> , 2018, 38, e12373.	1.1	9

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91	Plankton community assessment in anthropogenic-impacted oligotrophic coastal regions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31017-31030.	2.7	9
92	Genome-Resolved Metagenomics and Antibiotic Resistance Genes Analysis in Reclaimed Water Distribution Systems. <i>Water (Switzerland)</i> , 2020, 12, 3477.	1.2	7
93	Editorial perspective: Viruses in wastewater: Wading into the knowns and unknowns. <i>Environmental Research</i> , 2021, 196, 110255.	3.7	7
94	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.	1.2	6
95	Thin Film Polyamide Membranes with Photoresponsive Antibacterial Activity. <i>ChemistrySelect</i> , 2017, 2, 6612-6616.	0.7	5
96	Nanoparticles applied in membrane bioreactors: potential impact on reactor performance and microbial communities. , 2020, , 207-236.		5
97	Calibration and validation for a real-time membrane bioreactor: A sliding window approach. <i>Journal of Process Control</i> , 2021, 98, 92-105.	1.7	5
98	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.	3.9	5
99	Digital E. coli Counter: A Microfluidics and Computer Vision-Based DNAzyme Method for the Isolation and Specific Detection of E. coli from Water Samples. <i>Biosensors</i> , 2022, 12, 34.	2.3	5
100	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, 2573-2576.	1.4	4
101	Flexible isoporous air filters for high-efficiency particle capture. <i>Polymer</i> , 2021, 213, 123278.	1.8	4
102	Inactivation and Loss of Infectivity of Enterovirus 70 by Solar Irradiation. <i>Water (Switzerland)</i> , 2019, 11, 64.	1.2	3
103	Temperature Responses of Heterotrophic Bacteria in Co-culture With a Red Sea <i>Synechococcus</i> Strain. <i>Frontiers in Microbiology</i> , 2021, 12, 612732.	1.5	3
104	Antibiotic-Resistant Bacteria and Resistance Genes in the Water–Food Nexus of the Agricultural Environment. , 2015, , 325-346.		2
105	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.	0.6	2
106	Nonlinear Model Predictive Control Design for BSM-MBR: Benchmark of Membrane Bioreactor. <i>IFAC-PapersOnLine</i> , 2020, 53, 16524-16530.	0.5	2
107	Bacterial cell numbers and community structures of seawater biofilms depend on the attachment substratum. , 0, 97, 41-71.		2
108	Characterizing the Chemical Contaminants Diversity and Toxic Potential of Untreated Wastewater From a Drug Rehabilitation Hospital: Understanding Impact on Downstream Environment. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	2

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109	Editorial: Microbial Safety in Water Resources. <i>Frontiers in Microbiology</i> , 2018, 9, 3064.	1.5	1
110	A DNA-mimic contact-active functional group for antifouling ultrafiltration membranes. <i>Chemosphere</i> , 2019, 216, 669-676.	4.2	1
111	Elucidating the Role of Virulence Traits in the Survival of Pathogenic <i>E. coli</i> PI-7 Following Disinfection. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 614186.	2.0	0
112	Mitigating Antimicrobial Resistance Risks When Using Reclaimed Municipal Wastewater for Agriculture. <i>Handbook of Environmental Chemistry</i> , 2020, , 245-265.	0.2	0
113	Terrestrial Vertebrate Animal Metagenomics: Herbivorous Reptiles. , 2014, , 1-11.		0
114	Terrestrial Vertebrate Animal Metagenomics: Herbivorous Reptiles. , 2015, , 693-703.		0
115	Understanding microbial assembly on seawater reverse osmosis membranes to facilitate evaluation of seawater pretreatment options. , 0, 170, 1-10.		0