

# Wen-Tso Liu

## List of Publications by Year in Descending Order

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**Version:** 2024-04-19

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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.

172  
papers

10,650  
citations

56  
h-index

99  
g-index

177  
ext. papers

13,242  
ext. citations

7.7  
avg, IF

6.3  
L-index

#	Paper	IF	Citations
172	Ecology and molecular targets of hypermutation in the global microbiome. <i>Nature Communications</i> , <b>2021</b> , 12, 3076	17.4	9
171	Disentangling the syntrophic electron transfer mechanisms of <i>Candidatus geobacter eutrophica</i> through electrochemical stimulation and machine learning. <i>Scientific Reports</i> , <b>2021</b> , 11, 15140	4.9	0
170	Relative Importance of Stochastic Assembly Process of Membrane Biofilm Increased as Biofilm Aged. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 708531	5.7	1
169	Identifying anaerobic amino acids degraders through the comparison of short-term and long-term enrichments. <i>Environmental Microbiology Reports</i> , <b>2020</b> , 12, 173-184	3.7	4
168	Machine learning-aided analyses of thousands of draft genomes reveal specific features of activated sludge processes. <i>Microbiome</i> , <b>2020</b> , 8, 16	16.6	17
167	360-Degree Distribution of Biofilm Quantity and Community in an Operational Unchlorinated Drinking Water Distribution Pipe. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5619-5628	10.3	15
166	Assessing the contribution of biofilm to bacterial growth during stagnation in shower hoses. <i>Water Science and Technology: Water Supply</i> , <b>2020</b> , 20, 2564-2576	1.4	0
165	Superior resolution characterisation of microbial diversity in anaerobic digesters using full-length 16S rRNA gene amplicon sequencing. <i>Water Research</i> , <b>2020</b> , 178, 115815	12.5	17
164	Bacterial enrichment in highly-selective acetate-fed bioreactors and its application in rapid biofilm formation. <i>Water Research</i> , <b>2020</b> , 170, 115359	12.5	3
163	Catabolism and interactions of uncultured organisms shaped by eco-thermodynamics in methanogenic bioprocesses. <i>Microbiome</i> , <b>2020</b> , 8, 111	16.6	11
162	Metagenomic and Metatranscriptomic Analyses Revealed Uncultured Bacteroidales Populations as the Dominant Proteolytic Amino Acid Degraders in Anaerobic Digesters. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 593006	5.7	8
161	Ecogenomics-Based Mass Balance Model Reveals the Effects of Fermentation Conditions on Microbial Activity. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 595036	5.7	0
160	Assessing the transition effects in a drinking water distribution system caused by changing supply water quality: an indirect approach by characterizing suspended solids. <i>Water Research</i> , <b>2020</b> , 168, 115159	12.5	20
159	Coupling growth kinetics modeling with machine learning reveals microbial immigration impacts and identifies key environmental parameters in a biological wastewater treatment process. <i>Microbiome</i> , <b>2019</b> , 7, 65	16.6	13
158	Drinking Water Microbiome Project: Is it Time?. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 670-677	12.4	27
157	Genome-centric metagenomics resolves microbial diversity and prevalent truncated denitrification pathways in a denitrifying PAO-enriched bioprocess. <i>Water Research</i> , <b>2019</b> , 155, 275-287	12.5	43
156	The application of molecular tools to study the drinking water microbiome [Current understanding and future needs. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2019</b> , 49, 1188-1235	11.1	20

155	Nexus of Stochastic and Deterministic Processes on Microbial Community Assembly in Biological Systems. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1536	5.7	17
154	Diversity and geochemical community assembly processes of the living rare biosphere in a sand-and-gravel aquifer ecosystem in the Midwestern United States. <i>Scientific Reports</i> , <b>2019</b> , 9, 13484	4.9	7
153	Quantifying the contribution of microbial immigration in engineered water systems. <i>Microbiome</i> , <b>2019</b> , 7, 144	16.6	19
152	Warming counteracts grazing effects on the functional structure of the soil microbial community in a Tibetan grassland. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 113-121	7.5	14
151	Drinking water microbiome assembly induced by water stagnation. <i>ISME Journal</i> , <b>2018</b> , 12, 1520-1531	11.9	101
150	Ugly ducklings-the dark side of plastic materials in contact with potable water. <i>Npj Biofilms and Microbiomes</i> , <b>2018</b> , 4, 7	8.2	18
149	Metagenomic characterization of biofilter microbial communities in a full-scale drinking water treatment plant. <i>Water Research</i> , <b>2018</b> , 128, 278-285	12.5	71
148	Distribution comparison and risk assessment of free-floating and particle-attached bacterial pathogens in urban recreational water: Implications for water quality management. <i>Science of the Total Environment</i> , <b>2018</b> , 613-614, 428-438	10.2	36
147	Effect of divalent ions and a polyphosphate on composition, structure, and stiffness of simulated drinking water biofilms. <i>Npj Biofilms and Microbiomes</i> , <b>2018</b> , 4, 15	8.2	20
146	Co-occurrence network analysis reveals thermodynamics-driven microbial interactions in methanogenic bioreactors. <i>Environmental Microbiology Reports</i> , <b>2018</b> , 10, 673-685	3.7	12
145	Novel energy conservation strategies and behaviour of <i>Pelotomaculum schinkii</i> driving syntrophic propionate catabolism. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 4503-4511	5.2	16
144	Novel <i>Geobacter</i> species and diverse methanogens contribute to enhanced methane production in media-added methanogenic reactors. <i>Water Research</i> , <b>2018</b> , 147, 403-412	12.5	52
143	Effect of Disinfectant Exposure on <i>Legionella pneumophila</i> Associated with Simulated Drinking Water Biofilms: Release, Inactivation, and Infectivity. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2087-2095	10.3	23
142	Complete Nutrient Removal Coupled to Nitrous Oxide Production as a Bioenergy Source by Denitrifying Polyphosphate-Accumulating Organisms. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 4531-4540	10.3	54
141	Impact of drinking water treatment and distribution on the microbiome continuum: an ecological disturbance's perspective. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 3163-3174	5.2	29
140	Impacts of biostimulation and bioaugmentation on the performance and microbial ecology in methanogenic reactors treating purified terephthalic acid wastewater. <i>Water Research</i> , <b>2017</b> , 122, 308-316	12.5	18
139	IMG/VR: a database of cultured and uncultured DNA Viruses and retroviruses. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D457-D465	20.1	115
138	Thermodynamically diverse syntrophic aromatic compound catabolism. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 4576-4586	5.2	21

137	Operation-driven heterogeneity and overlooked feed-associated populations in global anaerobic digester microbiome. <i>Water Research</i> , <b>2017</b> , 124, 77-84	12.5	64
136	Minimum information about a single amplified genome (MISAG) and a metagenome-assembled genome (MIMAG) of bacteria and archaea. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 725-731	44.5	648
135	Diverse Marinimicrobia bacteria may mediate coupled biogeochemical cycles along eco-thermodynamic gradients. <i>Nature Communications</i> , <b>2017</b> , 8, 1507	17.4	56
134	Direct treatment of high-strength soft drink wastewater using a down-flow hanging sponge reactor: performance and microbial community dynamics. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 5925-5936	5.7	7
133	Genomic composition and dynamics among Methanomicrobiales predict adaptation to contrasting environments. <i>ISME Journal</i> , <b>2017</b> , 11, 87-99	11.9	19
132	Characterization of bacterial community dynamics in a full-scale drinking water treatment plant. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 51, 21-30	6.4	27
131	Benefits of Genomic Insights and CRISPR-Cas Signatures to Monitor Potential Pathogens across Drinking Water Production and Distribution Systems. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2036	5.7	10
130	Immune-modulatory genomic properties differentiate gut microbiota of infants with and without eczema. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184955	3.7	11
129	Core-satellite populations and seasonality of water meter biofilms in a metropolitan drinking water distribution system. <i>ISME Journal</i> , <b>2016</b> , 10, 582-95	11.9	73
128	Effects of hydraulic retention time on aerobic granulation and granule growth kinetics at steady state with a fast start-up strategy. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 469-77	5.7	31
127	Phylogeny and physiology of candidate phylum StribacteriaS(OP9/JS1) inferred from cultivation-independent genomics. <i>ISME Journal</i> , <b>2016</b> , 10, 273-86	11.9	118
126	Effects of heat shocks on microbial community structure and microbial activity of a methanogenic enrichment degrading benzoate. <i>Letters in Applied Microbiology</i> , <b>2016</b> , 63, 356-362	2.9	26
125	Comparative Genomics of Syntrophic Branched-Chain Fatty Acid Degrading Bacteria. <i>Microbes and Environments</i> , <b>2016</b> , 31, 288-92	2.6	19
124	Metagenomics Reveals a Novel Virophage Population in a Tibetan Mountain Lake. <i>Microbes and Environments</i> , <b>2016</b> , 31, 173-7	2.6	21
123	Evaluating digestion efficiency in full-scale anaerobic digesters by identifying active microbial populations through the lens of microbial activity. <i>Scientific Reports</i> , <b>2016</b> , 6, 34090	4.9	64
122	Complete Genome Sequence of the Intracellular Bacterial Symbiont TC1 in the Anaerobic Ciliate Trimyema compressum. <i>Genome Announcements</i> , <b>2016</b> , 4,		6
121	Global metabolomic responses of Nitrosomonas europaea 19718 to cold stress and altered ammonia feeding patterns. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 1843-1852	5.7	11
120	Response of Simulated Drinking Water Biofilm Mechanical and Structural Properties to Long-Term Disinfectant Exposure. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1779-87	10.3	44

119	Enrichment and characterization of microbial consortia degrading soluble microbial products discharged from anaerobic methanogenic bioreactors. <i>Water Research</i> , <b>2016</b> , 90, 395-404	12.5	31
118	Response of gut microbiota to salinity change in two euryhaline aquatic animals with reverse salinity preference. <i>Aquaculture</i> , <b>2016</b> , 454, 72-80	4.4	116
117	Chasing the elusive Euryarchaeota class WSA2: genomes reveal a uniquely fastidious methyl-reducing methanogen. <i>ISME Journal</i> , <b>2016</b> , 10, 2478-87	11.9	146
116	Membrane biofouling in a wastewater nitrification reactor: Microbial succession from autotrophic colonization to heterotrophic domination. <i>Water Research</i> , <b>2016</b> , 88, 337-345	12.5	41
115	A Single-Granule-Level Approach Reveals Ecological Heterogeneity in an Upflow Anaerobic Sludge Blanket Reactor. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167788	3.7	30
114	Draft Genome Sequence of Syntrophomonas wolfei subsp. methylbutyratica Strain 4J5T (JCM 14075), a Mesophilic Butyrate- and 2-Methylbutyrate-Degrading Syntroph. <i>Genome Announcements</i> , <b>2016</b> , 4,		4
113	Evolution and adaptation of SAR11 and Cyanobium in a saline Tibetan lake. <i>Environmental Microbiology Reports</i> , <b>2016</b> , 8, 595-604	3.7	3
112	Comparison of Particle-Associated Bacteria from a Drinking Water Treatment Plant and Distribution Reservoirs with Different Water Sources. <i>Scientific Reports</i> , <b>2016</b> , 6, 20367	4.9	24
111	Responses of Bacterial Communities to Simulated Climate Changes in Alpine Meadow Soil of the Qinghai-Tibet Plateau. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 6070-7	4.8	66
110	Role of biofilm roughness and hydrodynamic conditions in Legionella pneumophila adhesion to and detachment from simulated drinking water biofilms. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4274-82	10.3	67
109	Immobilization of selenite via two parallel pathways during in situ bioremediation. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4543-50	10.3	14
108	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> , <b>2015</b> , 81, 6012-23	4.8	15
107	Microbial Community Involved in Anaerobic Purified Terephthalic Acid Treatment Process <b>2015</b> , 31-48		4
106	Development and Application of Anaerobic Technology for the Treatment of Chemical Effluents in Taiwan <b>2015</b> , 243-262		
105	The genome of Syntrophorhabdus aromaticivorans strain UI provides new insights for syntrophic aromatic compound metabolism and electron flow. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 4861-72	5.2	55
104	Microbial community analysis of anaerobic reactors treating soft drink wastewater. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119131	3.7	20
103	The nexus of syntrophy-associated microbiota in anaerobic digestion revealed by long-term enrichment and community survey. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 1707-20	5.2	111
102	Microbial dark matter ecogenomics reveals complex synergistic networks in a methanogenic bioreactor. <i>ISME Journal</i> , <b>2015</b> , 9, 1710-22	11.9	232

101	Fish gut microbiota analysis differentiates physiology and behavior of invasive Asian carp and indigenous American fish. <i>ISME Journal</i> , <b>2014</b> , 8, 541-551	11.9	159
100	Simultaneous nitrogen and phosphorus removal in the sulfur cycle-associated Enhanced Biological Phosphorus Removal (EBPR) process. <i>Water Research</i> , <b>2014</b> , 49, 251-64	12.5	56
99	Metagenomic characterization of <i>Candidatus Defluviicoccus tetraformis</i> strain TFO715 a tetrad-forming organism, predominant in an anaerobic-aerobic membrane bioreactor with deteriorated biological phosphorus removal. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 2739-51	5.2	26
98	MS2 bacteriophage reduction and microbial communities in biosand filters. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6702-9	10.3	21
97	Pyrosequencing reveals bacterial communities in unchlorinated drinking water distribution system: an integral study of bulk water, suspended solids, loose deposits, and pipe wall biofilm. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 5467-76	10.3	149
96	Tracing fecal pollution sources in karst groundwater by Bacteroidales genetic biomarkers, bacterial indicators, and environmental variables. <i>Science of the Total Environment</i> , <b>2014</b> , 490, 1082-90	10.2	40
95	Abundance and composition of indigenous bacterial communities in a multi-step biofiltration-based drinking water treatment plant. <i>Water Research</i> , <b>2014</b> , 62, 40-52	12.5	126
94	Complete Genome Sequence of <i>Methanolinea tarda</i> NOBI-1T, a Hydrogenotrophic Methanogen Isolated from Methanogenic Digester Sludge. <i>Genome Announcements</i> , <b>2014</b> , 2,		2
93	Draft Genome Sequence of a Novel SAR11 Clade Species Abundant in a Tibetan Lake. <i>Genome Announcements</i> , <b>2014</b> , 2,		8
92	Membrane biofouling characterization: effects of sample preparation procedures on biofilm structure and the microbial community. <i>Biofouling</i> , <b>2014</b> , 30, 813-21	3.3	11
91	Draft Genome Sequence of <i>Syntrophorhabdus aromaticivorans</i> Strain UI, a Mesophilic Aromatic Compound-Degrading Syntroph. <i>Genome Announcements</i> , <b>2014</b> , 2,		17
90	Complete Genome Sequence of <i>Methanoregula formicica</i> SMSPT, a Mesophilic Hydrogenotrophic Methanogen Isolated from a Methanogenic Upflow Anaerobic Sludge Blanket Reactor. <i>Genome Announcements</i> , <b>2014</b> , 2,		3
89	<i>Halomonas sulfidaeris</i> -dominated microbial community inhabits a 1.8 km-deep subsurface Cambrian Sandstone reservoir. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 1695-708	5.2	46
88	The Family Dermatophilaceae <b>2014</b> , 317-325		
87	Insights into the phylogeny and coding potential of microbial dark matter. <i>Nature</i> , <b>2013</b> , 499, 431-7	50.4	1484
86	Diversity of bacterioplankton in contrasting Tibetan lakes revealed by high-density microarray and clone library analysis. <i>FEMS Microbiology Ecology</i> , <b>2013</b> , 86, 277-87	4.3	33
85	Roles of ionic strength and biofilm roughness on adhesion kinetics of <i>Escherichia coli</i> onto groundwater biofilm grown on PVC surfaces. <i>Water Research</i> , <b>2013</b> , 47, 2531-42	12.5	70
84	A microbiology-based multi-parametric approach towards assessing biological stability in drinking water distribution networks. <i>Water Research</i> , <b>2013</b> , 47, 3015-25	12.5	115

83	Biogeography of bacterioplankton in the tropical seawaters of Singapore. <i>FEMS Microbiology Ecology</i> , <b>2013</b> , 84, 259-69	4.3	9
82	A new biological phosphorus removal process in association with sulfur cycle. <i>Water Research</i> , <b>2013</b> , 47, 3057-69	12.5	35
81	Community and proteomic analysis of methanogenic consortia degrading terephthalate. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 105-12	4.8	28
80	Impact of chloramination on the development of laboratory-grown biofilms fed with filter-pretreated groundwater. <i>Microbes and Environments</i> , <b>2013</b> , 28, 50-7	2.6	21
79	Metagenomic analysis of DNA viruses in a wastewater treatment plant in tropical climate. <i>Environmental Microbiology</i> , <b>2012</b> , 14, 441-52	5.2	76
78	Evaluation of methods for the extraction of DNA from drinking water distribution system biofilms. <i>Microbes and Environments</i> , <b>2012</b> , 27, 9-18	2.6	38
77	Microbial community dynamics of an urban drinking water distribution system subjected to phases of chloramination and chlorination treatments. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 7856-65	4.8	105
76	Multiple syntrophic interactions in a terephthalate-degrading methanogenic consortium. <i>ISME Journal</i> , <b>2011</b> , 5, 122-30	11.9	99
75	Impact of silver nanoparticles on natural marine biofilm bacteria. <i>Chemosphere</i> , <b>2011</b> , 85, 961-6	8.4	90
74	Full-scale use of glycogen-accumulating organisms for excess biological carbon removal. <i>Water Environment Research</i> , <b>2011</b> , 83, 855-64	2.8	3
73	Analysis of 16S rRNA amplicon sequencing options on the Roche/454 next-generation titanium sequencing platform. <i>PLoS ONE</i> , <b>2011</b> , 6, e25263	3.7	160
72	A call for standardized classification of metagenome projects. <i>Environmental Microbiology</i> , <b>2010</b> , 12, 1803-5	5.2	23
71	Comparative analysis of fecal microbiota in infants with and without eczema. <i>PLoS ONE</i> , <b>2010</b> , 5, e9964	3.7	71
70	Pyrosequencing analysis of bacterial biofilm communities in water meters of a drinking water distribution system. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 5631-5	4.8	157
69	Microbial population dynamics of granular aerobic sequencing batch reactors during start-up and steady state periods. <i>Water Science and Technology</i> , <b>2010</b> , 62, 1281-7	2.2	18
68	East Tibetan lakes harbour novel clusters of picocyanobacteria as inferred from the 16S-23S rRNA internal transcribed spacer sequences. <i>Microbial Ecology</i> , <b>2010</b> , 59, 614-22	4.4	18
67	Spatially addressable bead-based biosensor for rapid detection of beta-thalassemia mutations. <i>Analytica Chimica Acta</i> , <b>2010</b> , 658, 193-6	6.6	6
66	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> , <b>2009</b> , 75, 2573-6	4.8	4

65	Quantitative fluorescent in-situ hybridization: a hypothesized competition mode between two dominant bacteria groups in hydrogen-producing anaerobic sludge processes. <i>Water Science and Technology</i> , <b>2009</b> , 59, 1901-9	2.2	6
64	Fabrication of three-dimensional hemispherical structures using photolithography. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 7, 721-726	2.8	5
63	Quantitative detection of culturable methanogenic archaea abundance in anaerobic treatment systems using the sequence-specific rRNA cleavage method. <i>ISME Journal</i> , <b>2009</b> , 3, 522-35	11.9	31
62	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> , <b>2009</b> , 11, 1672-81	5.2	21
61	Determination of virus abundance, diversity and distribution in a municipal wastewater treatment plant. <i>Water Research</i> , <b>2009</b> , 43, 1101-9	12.5	63
60	Quantitative effects of position and type of single mismatch on single base primer extension. <i>Journal of Microbiological Methods</i> , <b>2009</b> , 77, 267-75	2.8	97
59	Characterization of active microbes in a full-scale anaerobic fluidized bed reactor treating phenolic wastewater. <i>Microbes and Environments</i> , <b>2009</b> , 24, 144-53	2.6	35
58	Rapid lab-on-a-chip profiling of human gut bacteria. <i>Journal of Microbiological Methods</i> , <b>2008</b> , 72, 82-90	2.8	16
57	Identification of important microbial populations in the mesophilic and thermophilic phenol-degrading methanogenic consortia. <i>Water Research</i> , <b>2008</b> , 42, 1963-76	12.5	67
56	Microbial diversity and metagenomics insights of terephthalate-degrading methanogenic processes. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S603-S604	3.7	
55	Enhanced microfiltration devices configured with hydrodynamic trapping and a rain drop bypass filtering architecture for microbial cells detection. <i>Lab on A Chip</i> , <b>2008</b> , 8, 830-3	7.2	24
54	Relative abundance of Bacteroides spp. in stools and wastewaters as determined by hierarchical oligonucleotide primer extension. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2882-93	4.8	40
53	A spatially addressable bead-based biosensor for simple and rapid DNA detection. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 803-10	11.8	33
52	Silicon nanopillar substrates for enhancing signal intensity in DNA microarrays. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 723-8	11.8	41
51	Effects of target length on the hybridization efficiency and specificity of rRNA-based oligonucleotide microarrays. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 73-82	4.8	53
50	Community structure analysis of reverse osmosis membrane biofilms and the significance of Rhizobiales bacteria in biofouling. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4728-34	10.3	85
49	Rapid discrimination of single-nucleotide mismatches using a microfluidic device with monolayered beads. <i>Analytica Chimica Acta</i> , <b>2007</b> , 582, 295-303	6.6	24
48	Ecophysiology of Defluviicoccus-related tetrad-forming organisms in an anaerobic-aerobic activated sludge process. <i>Environmental Microbiology</i> , <b>2007</b> , 9, 1485-96	5.2	30



47	Recent advances in molecular techniques for the detection of phylogenetic markers and functional genes in microbial communities. <i>FEMS Microbiology Letters</i> , <b>2007</b> , 275, 183-90	2.9	12
46	Saliva-based diagnostics using 16S rRNA microarrays and microfluidics. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1098, 345-61	6.5	10
45	Cell loss in integrated microfluidic device. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 745-50	3.7	15
44	Quantitative multiplexing analysis of PCR-amplified ribosomal RNA genes by hierarchical oligonucleotide primer extension reaction. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, e82	20.1	26
43	Miniaturized platforms for the detection of single-nucleotide polymorphisms. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 427-34	4.4	31
42	Proliferation of glycogen accumulating organisms induced by Fe(III) dosing in a domestic wastewater treatment plant. <i>Water Science and Technology</i> , <b>2006</b> , 54, 101-9	2.2	4
41	Biological filtration limits carbon availability and affects downstream biofilm formation and community structure. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 5702-12	4.8	30
40	Nanoparticles and their biological and environmental applications. <i>Journal of Bioscience and Bioengineering</i> , <b>2006</b> , 102, 1-7	3.3	287
39	Microbial succession of glycogen accumulating organisms in an anaerobic-aerobic membrane bioreactor with no phosphorus removal. <i>Water Science and Technology</i> , <b>2006</b> , 54, 29-37	2.2	31
38	Technology development to explore the relationship between oral health and the oral microbial community. <i>BMC Oral Health</i> , <b>2006</b> , 6 Suppl 1, S10	3.7	5
37	Microbial detection in microfluidic devices through dual staining of quantum dots-labeled immunoassay and RNA hybridization. <i>Analytica Chimica Acta</i> , <b>2006</b> , 556, 171-7	6.6	45
36	Microfluidic device as a new platform for immunofluorescent detection of viruses. <i>Lab on A Chip</i> , <b>2005</b> , 5, 1327-30	7.2	62
35	Biofilm formation characteristics of bacterial isolates retrieved from a reverse osmosis membrane. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 7541-50	10.3	182
34	In situ identification and characterization of the microbial community structure of full-scale enhanced biological phosphorous removal plants in Japan. <i>Water Research</i> , <b>2005</b> , 39, 2901-14	12.5	114
33	Environmental microbiology-on-a-chip and its future impacts. <i>Trends in Biotechnology</i> , <b>2005</b> , 23, 174-9	15.1	77
32	Emission characteristics of fluorescent labels with respect to temperature changes and subsequent effects on DNA microchip studies. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6453-7	4.8	38
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