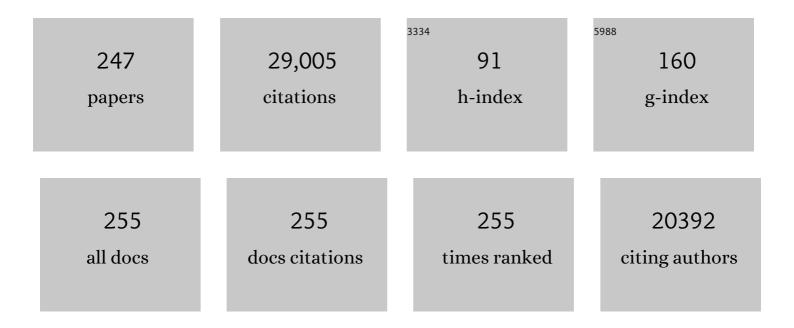
Tong Zhang

List of Publications by Year in descending order

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ΤΟΝΟ ΖΗΛΝΟ

#	Article	IF	CITATIONS
1	454 Pyrosequencing reveals bacterial diversity of activated sludge from 14 sewage treatment plants. ISME Journal, 2012, 6, 1137-1147.	9.8	957
2	Metagenomic and network analysis reveal wide distribution and co-occurrence of environmental antibiotic resistance genes. ISME Journal, 2015, 9, 2490-2502.	9.8	928
3	Continental-scale pollution of estuaries with antibiotic resistance genes. Nature Microbiology, 2017, 2, 16270.	13.3	812
4	Antibiotic resistance genes in water environment. Applied Microbiology and Biotechnology, 2009, 82, 397-414.	3.6	801
5	Biodegradation and Adsorption of Antibiotics in the Activated Sludge Process. Environmental Science & amp; Technology, 2010, 44, 3468-3473.	10.0	765
6	Management Options for Reducing the Release of Antibiotics and Antibiotic Resistance Genes to the Environment. Environmental Health Perspectives, 2013, 121, 878-885.	6.0	657
7	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO ₂ Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. Environmental Science & Technology, 2016, 50, 3119-3127.	10.0	563
8	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	13.3	491
9	Metagenomic insights into chlorination effects on microbial antibiotic resistance in drinking water. Water Research, 2013, 47, 111-120.	11.3	423
10	Fate of antibiotic resistance genes in sewage treatment plant revealed by metagenomic approach. Water Research, 2014, 62, 97-106.	11.3	418
11	Bacterial assembly and temporal dynamics in activated sludge of a full-scale municipal wastewater treatment plant. ISME Journal, 2015, 9, 683-695.	9.8	393
12	Bacterial Community Shift Drives Antibiotic Resistance Promotion during Drinking Water Chlorination. Environmental Science & Technology, 2015, 49, 12271-12279.	10.0	384
13	ARGs-OAP v2.0 with an expanded SARG database and Hidden Markov Models for enhancement characterization and quantification of antibiotic resistance genes in environmental metagenomes. Bioinformatics, 2018, 34, 2263-2270.	4.1	375
14	Co-occurrence of antibiotic and metal resistance genes revealed in complete genome collection. ISME Journal, 2017, 11, 651-662.	9.8	351
15	Phthalates biodegradation in the environment. Applied Microbiology and Biotechnology, 2008, 80, 183-98.	3.6	336
16	Taxonomic relatedness shapes bacterial assembly in activated sludge of globally distributed wastewater treatment plants. Environmental Microbiology, 2014, 16, 2421-2432.	3.8	333
17	Metagenomic Profiles of Antibiotic Resistance Genes (ARGs) between Human Impacted Estuary and Deep Ocean Sediments. Environmental Science & Technology, 2013, 47, 12753-12760.	10.0	329
18	Antibiotics, Antibiotic Resistance Genes, and Bacterial Community Composition in Fresh Water Aquaculture Environment in China. Microbial Ecology, 2015, 70, 425-432.	2.8	322

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19	Exploring Variation of Antibiotic Resistance Genes in Activated Sludge over a Four-Year Period through a Metagenomic Approach. Environmental Science & Technology, 2013, 47, 10197-10205.	10.0	315
20	Sulfur-driven autotrophic denitrification: diversity, biochemistry, and engineering applications. Applied Microbiology and Biotechnology, 2010, 88, 1027-1042.	3.6	310
21	Antibiotic resistance genes and human bacterial pathogens: Co-occurrence, removal, and enrichment in municipal sewage sludge digesters. Water Research, 2016, 91, 1-10.	11.3	305
22	Wastewater treatment plant resistomes are shaped by bacterial composition, genetic exchange, and upregulated expression in the effluent microbiomes. ISME Journal, 2019, 13, 346-360.	9.8	289
23	Metagenomic Assembly Reveals Hosts of Antibiotic Resistance Genes and the Shared Resistome in Pig, Chicken, and Human Feces. Environmental Science & Technology, 2016, 50, 420-427.	10.0	287
24	Biohydrogen production from starch in wastewater under thermophilic condition. Journal of Environmental Management, 2003, 69, 149-156.	7.8	285
25	Plasmid Metagenome Reveals High Levels of Antibiotic Resistance Genes and Mobile Genetic Elements in Activated Sludge. PLoS ONE, 2011, 6, e26041.	2.5	272
26	Metagenomic and Metatranscriptomic Analysis of Microbial Community Structure and Gene Expression of Activated Sludge. PLoS ONE, 2012, 7, e38183.	2.5	267
27	The Prevalence of Integrons as the Carrier of Antibiotic Resistance Genes in Natural and Man-Made Environments. Environmental Science & Technology, 2017, 51, 5721-5728.	10.0	260
28	Fate of antibiotic resistance genes and their associations with bacterial community in livestock breeding wastewater and its receiving river water. Water Research, 2017, 124, 259-268.	11.3	255
29	ARGs-OAP: online analysis pipeline for antibiotic resistance genes detection from metagenomic data using an integrated structured ARG-database. Bioinformatics, 2016, 32, 2346-2351.	4.1	254
30	Bacterial communities in different sections of a municipal wastewater treatment plant revealed by 16S rDNA 454 pyrosequencing. Applied Microbiology and Biotechnology, 2013, 97, 2681-2690.	3.6	253
31	An omics-based framework for assessing the health risk of antimicrobial resistance genes. Nature Communications, 2021, 12, 4765.	12.8	248
32	Metagenomics of urban sewage identifies an extensively shared antibiotic resistome in China. Microbiome, 2017, 5, 84.	11.1	247
33	Occurrence, Abundance, and Diversity of Tetracycline Resistance Genes in 15 Sewage Treatment Plants across China and Other Global Locations. Environmental Science & Technology, 2011, 45, 2598-2604.	10.0	246
34	Widespread Production of Extracellular Superoxide by Heterotrophic Bacteria. Science, 2013, 340, 1223-1226.	12.6	236
35	Toward a Comprehensive Strategy to Mitigate Dissemination of Environmental Sources of Antibiotic Resistance. Environmental Science & Technology, 2017, 51, 13061-13069.	10.0	236
36	Mobile antibiotic resistome in wastewater treatment plants revealed by Nanopore metagenomic sequencing. Microbiome, 2019, 7, 44.	11.1	236

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37	Occurrence, Transformation, and Fate of Antibiotics in Municipal Wastewater Treatment Plants. Critical Reviews in Environmental Science and Technology, 2011, 41, 951-998.	12.8	229
38	Analysis of the bacterial community in a laboratory-scale nitrification reactor and a wastewater treatment plant by 454-pyrosequencing. Water Research, 2011, 45, 4390-4398.	11.3	217
39	Catalogue of antibiotic resistome and host-tracking in drinking water deciphered by a large scale survey. Microbiome, 2017, 5, 154.	11.1	215
40	Cellular adhesiveness and cellulolytic capacity in Anaerolineae revealed by omics-based genome interpretation. Biotechnology for Biofuels, 2016, 9, 111.	6.2	210
41	Applications of real-time polymerase chain reaction for quantification of microorganisms in environmental samples. Applied Microbiology and Biotechnology, 2006, 70, 281-289.	3.6	208
42	Integrated biogeography of planktonic and sedimentary bacterial communities in the Yangtze River. Microbiome, 2018, 6, 16.	11.1	208
43	Effect of temperature on removal of antibiotic resistance genes by anaerobic digestion of activated sludge revealed by metagenomic approach. Applied Microbiology and Biotechnology, 2015, 99, 7771-7779.	3.6	201
44	Rapid analysis of 21 antibiotics of multiple classes in municipal wastewater using ultra performance liquid chromatography-tandem mass spectrometry. Analytica Chimica Acta, 2009, 645, 64-72.	5.4	199
45	Detecting Human Bacterial Pathogens in Wastewater Treatment Plants by a High-Throughput Shotgun Sequencing Technique. Environmental Science & Technology, 2013, 47, 5433-5441.	10.0	199
46	Tetracycline Resistance Genes and Tetracycline Resistant Lactose-Fermenting <i>Enterobacteriaceae</i> in Activated Sludge of Sewage Treatment Plants. Environmental Science & Technology, 2009, 43, 3455-3460.	10.0	196
47	Pathogenic Bacteria in Sewage Treatment Plants as Revealed by 454 Pyrosequencing. Environmental Science & Technology, 2011, 45, 7173-7179.	10.0	186
48	Antibiotic-mediated changes in the fecal microbiome of broiler chickens define the incidence of antibiotic resistance genes. Microbiome, 2018, 6, 34.	11.1	185
49	Differentiating anthropogenic impacts on ARGs in the Pearl River Estuary by using suitable gene indicators. Water Research, 2013, 47, 2811-2820.	11.3	182
50	Metagenomic analysis of sludge from full-scale anaerobic digesters operated in municipal wastewater treatment plants. Applied Microbiology and Biotechnology, 2014, 98, 5709-5718.	3.6	179
51	Bacteria-mediated PAH degradation in soil and sediment. Applied Microbiology and Biotechnology, 2011, 89, 1357-1371.	3.6	178
52	Characterization of tetracycline resistant bacterial community in saline activated sludge using batch stress incubation with high-throughput sequencing analysis. Water Research, 2013, 47, 4207-4216.	11.3	175
53	Profiling bulking and foaming bacteria in activated sludge by high throughput sequencing. Water Research, 2012, 46, 2772-2782.	11.3	172
54	Mass flows and removal of antibiotics in two municipal wastewater treatment plants. Chemosphere, 2011, 83, 1284-1289.	8.2	169

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55	Structure, Variation, and Co-occurrence of Soil Microbial Communities in Abandoned Sites of a Rare Earth Elements Mine. Environmental Science & Technology, 2016, 50, 11481-11490.	10.0	163
56	Comammox in drinking water systems. Water Research, 2017, 116, 332-341.	11.3	163
57	Conjugative plasmids interact with insertion sequences to shape the horizontal transfer of antimicrobial resistance genes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	161
58	Metagenomic analysis on seasonal microbial variations of activated sludge from a fullâ€scale wastewater treatment plant over 4 years. Environmental Microbiology Reports, 2014, 6, 80-89.	2.4	159
59	Optimization of fixation methods for observation of bacterial cell morphology and surface ultrastructures by atomic force microscopy. Applied Microbiology and Biotechnology, 2011, 92, 381-392.	3.6	157
60	Metagenomic Analysis Revealing Antibiotic Resistance Genes (ARGs) and Their Genetic Compartments in the Tibetan Environment. Environmental Science & Technology, 2016, 50, 6670-6679.	10.0	155
61	Antibiotic Resistance Genes and Correlations with Microbial Community and Metal Resistance Genes in Full-Scale Biogas Reactors As Revealed by Metagenomic Analysis. Environmental Science & Technology, 2017, 51, 4069-4080.	10.0	154
62	Microbial Structures, Functions, and Metabolic Pathways in Wastewater Treatment Bioreactors Revealed Using High-Throughput Sequencing. Environmental Science & Technology, 2012, 46, 13244-13252.	10.0	153
63	Tracking antibiotic resistome during wastewater treatment using high throughput quantitative PCR. Environment International, 2018, 117, 146-153.	10.0	152
64	Impact of dairy manure pre-application treatment on manure composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. Science of the Total Environment, 2017, 581-582, 32-39.	8.0	148
65	Metagenomics Shows That Low-Energy Anaerobicâ ^{~?} Aerobic Treatment Reactors Reduce Antibiotic Resistance Gene Levels from Domestic Wastewater. Environmental Science & Technology, 2015, 49, 2577-2584.	10.0	147
66	Characterization of Thauera-dominated hydrogen-oxidizing autotrophic denitrifying microbial communities by using high-throughput sequencing. Bioresource Technology, 2013, 128, 703-710.	9.6	144
67	Antibiotic resistome in a largeâ€scale healthy human gut microbiota deciphered by metagenomic and network analyses. Environmental Microbiology, 2018, 20, 355-368.	3.8	141
68	Biases during DNA extraction of activated sludge samples revealed by high throughput sequencing. Applied Microbiology and Biotechnology, 2013, 97, 4607-4616.	3.6	139
69	Exploring antibiotic resistance genes and metal resistance genes in plasmid metagenomes from wastewater treatment plants. Frontiers in Microbiology, 2015, 6, 1025.	3.5	139
70	Antibiotic resistome in landfill leachate from different cities of China deciphered by metagenomic analysis. Water Research, 2018, 134, 126-139.	11.3	138
71	Profile and Fate of Bacterial Pathogens in Sewage Treatment Plants Revealed by High-Throughput Metagenomic Approach. Environmental Science & Technology, 2015, 49, 10492-10502.	10.0	137
72	Aerobic Degradation of Sulfadiazine by <i>Arthrobacter</i> spp.: Kinetics, Pathways, and Genomic Characterization. Environmental Science & Technology, 2016, 50, 9566-9575.	10.0	134

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73	Ammonia-oxidizing archaea and ammonia-oxidizing bacteria in six full-scale wastewater treatment bioreactors. Applied Microbiology and Biotechnology, 2011, 91, 1215-1225.	3.6	133
74	Tracking human sewage microbiome in a municipal wastewater treatment plant. Applied Microbiology and Biotechnology, 2014, 98, 3317-3326.	3.6	126
75	Metagenomic analysis revealed highly diverse microbial arsenic metabolism genes in paddy soils with low-arsenic contents. Environmental Pollution, 2016, 211, 1-8.	7.5	125
76	Surface-enhanced Raman scattering (SERS) revealing chemical variation during biofilm formation: from initial attachment to mature biofilm. Analytical and Bioanalytical Chemistry, 2012, 404, 1465-1475.	3.7	124
77	Characterization and quantification of class 1 integrons and associated gene cassettes in sewage treatment plants. Applied Microbiology and Biotechnology, 2009, 82, 1169-1177.	3.6	120
78	Back to the Future of Soil Metagenomics. Frontiers in Microbiology, 2016, 7, 73.	3.5	120
79	Comparative genomics analyses on EPS biosynthesis genes required for floc formation of Zoogloea resiniphila and other activated sludge bacteria. Water Research, 2016, 102, 494-504.	11.3	117
80	Does Hydrophilic Polydopamine Coating Enhance Membrane Rejection of Hydrophobic Endocrine-Disrupting Compounds?. Environmental Science and Technology Letters, 2016, 3, 332-338.	8.7	117
81	Metagenomic analysis reveals significant changes of microbial compositions and protective functions during drinking water treatment. Scientific Reports, 2013, 3, 3550.	3.3	116
82	Tracking antibiotic resistance gene pollution from different sources using machine-learning classification. Microbiome, 2018, 6, 93.	11.1	114
83	MiDAS 4: A global catalogue of full-length 16S rRNA gene sequences and taxonomy for studies of bacterial communities in wastewater treatment plants. Nature Communications, 2022, 13, 1908.	12.8	114
84	Metagenomic Analysis of Antibiotic Resistance Genes in Dairy Cow Feces following Therapeutic Administration of Third Generation Cephalosporin. PLoS ONE, 2015, 10, e0133764.	2.5	113
85	Novel Insights into Selection for Antibiotic Resistance in Complex Microbial Communities. MBio, 2018, 9, .	4.1	110
86	Linking Microbial Community, Environmental Variables, and Methanogenesis in Anaerobic Biogas Digesters of Chemically Enhanced Primary Treatment Sludge. Environmental Science & Technology, 2017, 51, 3982-3992.	10.0	107
87	Water and sanitation: an essential battlefront in the war on antimicrobial resistance. FEMS Microbiology Ecology, 2018, 94, .	2.7	104
88	Selection for antimicrobial resistance is reduced when embedded in a natural microbial community. ISME Journal, 2019, 13, 2927-2937.	9.8	102
89	Identification and quantification of bacterial genomes carrying antibiotic resistance genes and virulence factor genes for aquatic microbiological risk assessment. Water Research, 2020, 168, 115160.	11.3	102
90	Characterization and quantification of ammonia-oxidizing archaea (AOA) and bacteria (AOB) in a nitrogen-removing reactor using T-RFLP and qPCR. Applied Microbiology and Biotechnology, 2010, 87, 1167-1176.	3.6	101

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91	Antibiotic Resistance Genes in the Human-Impacted Environment: A One Health Perspective. Pedosphere, 2019, 29, 273-282.	4.0	100
92	New insights into antibiotic resistome in drinking water and management perspectives: A metagenomic based study of small-sized microbes. Water Research, 2019, 152, 191-201.	11.3	100
93	Shifts in the Microbial Community, Nitrifiers and Denitrifiers in the Biofilm in a Full-scale Rotating Biological Contactor. Environmental Science & Technology, 2014, 48, 8044-8052.	10.0	99
94	Bacteria That Make a Meal of Sulfonamide Antibiotics: Blind Spots and Emerging Opportunities. Environmental Science & Technology, 2018, 52, 3854-3868.	10.0	97
95	Metagenomic analysis reveals potential biodegradation pathways of persistent pesticides in freshwater and marine sediments. Science of the Total Environment, 2014, 470-471, 983-992.	8.0	92
96	Novel nitrifiers and comammox in a full-scale hybrid biofilm and activated sludge reactor revealed by metagenomic approach. Applied Microbiology and Biotechnology, 2016, 100, 8225-8237.	3.6	90
97	Insights into the ecological roles and evolution of methyl-coenzyme M reductase-containing hot spring Archaea. Nature Communications, 2019, 10, 4574.	12.8	90
98	An integrated meta-omics approach reveals substrates involved in synergistic interactions in a bisphenol A (BPA)-degrading microbial community. Microbiome, 2019, 7, 16.	11.1	89
99	Editorial: Antibiotic Resistance in Aquatic Systems. Frontiers in Microbiology, 2017, 8, 14.	3.5	88
100	Abundant rifampin resistance genes and significant correlations of antibiotic resistance genes and plasmids in various environments revealed by metagenomic analysis. Applied Microbiology and Biotechnology, 2014, 98, 5195-5204.	3.6	87
101	Metagenomic profiles of antibiotic resistance genes in paddy soils from South China. FEMS Microbiology Ecology, 2016, 92, fiw023.	2.7	87
102	Performance of nanofiltration membrane in rejecting trace organic compounds: Experiment and model prediction. Desalination, 2015, 370, 7-16.	8.2	85
103	Exploration of the antibiotic resistome in a wastewater treatment plant by a nine-year longitudinal metagenomic study. Environment International, 2019, 133, 105270.	10.0	85
104	Microbial community and biochemistry process in autosulfurotrophic denitrifying biofilm. Chemosphere, 2005, 58, 1041-1047.	8.2	84
105	Taxonomic Precision of Different Hypervariable Regions of 16S rRNA Gene and Annotation Methods for Functional Bacterial Groups in Biological Wastewater Treatment. PLoS ONE, 2013, 8, e76185.	2.5	84
106	Class 1 integronase gene and tetracycline resistance genes tetA and tetC in different water environments of Jiangsu Province, China. Ecotoxicology, 2009, 18, 652-660.	2.4	83
107	Conserved phylogenetic distribution and limited antibiotic resistance of class 1 integrons revealed by assessing the bacterial genome and plasmid collection. Microbiome, 2018, 6, 130.	11.1	83
108	Effluents of wastewater treatment plants promote the rapid stabilization of the antibiotic resistome in receiving freshwater bodies. Water Research, 2019, 158, 72-81.	11.3	82

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109	Source tracking of antibiotic resistance genes in the environment — Challenges, progress, and prospects. Water Research, 2020, 185, 116127.	11.3	82
110	Aerobic degradation of diethyl phthalate by Sphingomonas sp Bioresource Technology, 2007, 98, 717-720.	9.6	79
111	Different removal behaviours of multiple trace antibiotics inÂmunicipal wastewater chlorination. Water Research, 2013, 47, 2970-2982.	11.3	79
112	16S rRNA gene high-throughput sequencing data mining of microbial diversity and interactions. Applied Microbiology and Biotechnology, 2015, 99, 4119-4129.	3.6	79
113	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. Water Research, 2017, 121, 197-203.	11.3	77
114	Genome-centric metagenomics resolves microbial diversity and prevalent truncated denitrification pathways in a denitrifying PAO-enriched bioprocess. Water Research, 2019, 155, 275-287.	11.3	77
115	Title is missing!. Biotechnology Letters, 2000, 22, 399-405.	2.2	75
116	Discovery of new cellulases from the metagenome by a metagenomics-guided strategy. Biotechnology for Biofuels, 2016, 9, 138.	6.2	74
117	Experimental Design and Bioinformatics Analysis for the Application of Metagenomics in Environmental Sciences and Biotechnology. Environmental Science & Technology, 2015, 49, 12628-12640.	10.0	72
118	Diversity and functions of bacterial community in drinking water biofilms revealed by high-throughput sequencing. Scientific Reports, 2015, 5, 10044.	3.3	71
119	Characterization of airborne antibiotic resistance genes from typical bioaerosol emission sources in the urban environment using metagenomic approach. Chemosphere, 2018, 213, 463-471.	8.2	71
120	Anaerobic degradation of dimethyl phthalate in wastewater in a UASB reactor. Water Research, 2007, 41, 2879-2884.	11.3	70
121	Enhanced anoxic bioremediation of PAHs-contaminated sediment. Bioresource Technology, 2012, 104, 51-58.	9.6	69
122	pH significantly affects removal of trace antibiotics in chlorination of municipal wastewater. Water Research, 2012, 46, 3703-3713.	11.3	65
123	Metagenomic exploration reveals high levels of microbial arsenic metabolism genes in activated sludge and coastal sediments. Applied Microbiology and Biotechnology, 2013, 97, 9579-9588.	3.6	65
124	Exploring the effects of operational mode and microbial interactions on bacterial community assembly in a one-stage partial-nitritation anammox reactor using integrated multi-omics. Microbiome, 2019, 7, 122.	11.1	65
125	Direct rapid analysis of multiple PPCPs in municipal wastewater using ultrahigh performance liquid chromatography–tandem mass spectrometry without SPE pre-concentration. Analytica Chimica Acta, 2012, 738, 59-68.	5.4	64
126	Genome Reconstruction and Gene Expression of " <i>Candidatus</i> Accumulibacter phosphatis―Clade IB Performing Biological Phosphorus Removal. Environmental Science & Technology, 2014, 48, 10363-10371.	10.0	64

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127	Dominant and novel clades of Candidatus Accumulibacter phosphatis in 18 globally distributed full-scale wastewater treatment plants. Scientific Reports, 2015, 5, 11857.	3.3	64
128	Ammoniaâ€oxidizing bacteria dominates over ammoniaâ€oxidizing archaea in a saline nitrification reactor under low DO and high nitrogen loading. Biotechnology and Bioengineering, 2011, 108, 2544-2552.	3.3	63
129	Abundance and distribution of Macrolide-Lincosamide-Streptogramin resistance genes in an anaerobic-aerobic system treating spiramycin production wastewater. Water Research, 2014, 63, 33-41.	11.3	63
130	Thermophilic microbial cellulose decomposition and methanogenesis pathways recharacterized by metatranscriptomic and metagenomic analysis. Scientific Reports, 2014, 4, 6708.	3.3	62
131	Thermodynamic and physiological study of caproate and 1,3-propanediol co-production through glycerol fermentation and fatty acids chain elongation. Water Research, 2017, 114, 200-209.	11.3	62
132	Picoinjection-Enabled Multitarget Loop-Mediated Isothermal Amplification for Detection of Foodborne Pathogens. Analytical Chemistry, 2018, 90, 13173-13177.	6.5	62
133	Alternative strategies of nutrient acquisition and energy conservation map to the biogeography of marine ammonia-oxidizing archaea. ISME Journal, 2020, 14, 2595-2609.	9.8	62
134	Effects of Weathering on the Sorption Behavior and Toxicity of Polystyrene Microplastics in Multi-solute Systems. Water Research, 2020, 187, 116419.	11.3	61
135	Metagenomic and Resistome Analysis of a Full-Scale Municipal Wastewater Treatment Plant in Singapore Containing Membrane Bioreactors. Frontiers in Microbiology, 2019, 10, 172.	3.5	58
136	Diversity of gut microbiomes in marine fishes is shaped by hostâ€related factors. Molecular Ecology, 2020, 29, 5019-5034.	3.9	57
137	Untangling Microbiota Diversity and Assembly Patterns in the World's Largest Water Diversion Canal. Water Research, 2021, 204, 117617.	11.3	57
138	Genomic characterization, kinetics, and pathways of sulfamethazine biodegradation by Paenarthrobacter sp. A01. Environment International, 2019, 131, 104961.	10.0	56
139	Biodegradation of naphthalene by enriched marine denitrifying bacteria. International Biodeterioration and Biodegradation, 2011, 65, 204-211.	3.9	55
140	Novel Microbial Populations in Ambient and Mesophilic Biogas-Producing and Phenol-Degrading Consortia Unraveled by High-Throughput Sequencing. Microbial Ecology, 2014, 68, 235-246.	2.8	54
141	Autotrophic denitrification and its effect on metal speciation during marine sediment remediation. Water Research, 2009, 43, 2961-2968.	11.3	53
142	Sorption Behavior of Bisphenol A and Triclosan by Graphene: Comparison with Activated Carbon. ACS Omega, 2017, 2, 5378-5384.	3.5	53
143	Aromatic compounds lead to increased abundance of antibiotic resistance genes in wastewater treatment bioreactors. Water Research, 2019, 166, 115073.	11.3	53
144	Long-read metagenomic sequencing reveals shifts in associations of antibiotic resistance genes with mobile genetic elements from sewage to activated sludge. Microbiome, 2022, 10, 20.	11.1	52

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145	Title is missing!. Biotechnology Letters, 2001, 23, 405-409.	2.2	51
146	Impact of pre-application treatment on municipal sludge composition, soil dynamics of antibiotic resistance genes, and abundance of antibiotic-resistance genes on vegetables at harvest. Science of the Total Environment, 2017, 587-588, 214-222.	8.0	50
147	The first case study of wastewater-based epidemiology of COVID-19 in Hong Kong. Science of the Total Environment, 2021, 790, 148000.	8.0	50
148	Construction of Customized Sub-Databases from NCBI-nr Database for Rapid Annotation of Huge Metagenomic Datasets Using a Combined BLAST and MEGAN Approach. PLoS ONE, 2013, 8, e59831.	2.5	49
149	Prokaryotic viruses impact functional microorganisms in nutrient removal and carbon cycle in wastewater treatment plants. Nature Communications, 2021, 12, 5398.	12.8	49
150	Comparison of virus concentration methods and RNA extraction methods for SARS-CoV-2 wastewater surveillance. Science of the Total Environment, 2022, 824, 153687.	8.0	49
151	Quantification and characterization of β-lactam resistance genes in 15 sewage treatment plants from East Asia and North America. Applied Microbiology and Biotechnology, 2012, 95, 1351-1358.	3.6	48
152	Anaerobic digestion of chemically enhanced primary treatment (CEPT) sludge and the microbial community structure. Applied Microbiology and Biotechnology, 2016, 100, 8975-8982.	3.6	46
153	Effect of pH change on the performance and microbial community of enhanced biological phosphate removal process. Biotechnology and Bioengineering, 2005, 92, 173-182.	3.3	45
154	Mining of Novel Thermo-Stable Cellulolytic Genes from a Thermophilic Cellulose-Degrading Consortium by Metagenomics. PLoS ONE, 2013, 8, e53779.	2.5	44
155	Co-occurrence correlations of heavy metals in sediments revealed using network analysis. Chemosphere, 2015, 119, 1305-1313.	8.2	43
156	Evidence for Long-Term Anthropogenic Pollution: The Hadal Trench as a Depository and Indicator for Dissemination of Antibiotic Resistance Genes. Environmental Science & Technology, 2021, 55, 15136-15148.	10.0	41
157	MinION Nanopore Sequencing Enables Correlation between Resistome Phenotype and Genotype of Coliform Bacteria in Municipal Sewage. Frontiers in Microbiology, 2017, 8, 2105.	3.5	39
158	Risks of antibiotic resistance genes and antimicrobial resistance under chlorination disinfection with public health concerns. Environment International, 2022, 158, 106978.	10.0	39
159	Microbial community of sulfate-reducing up-flow sludge bed in the SANI® process for saline sewage treatment. Applied Microbiology and Biotechnology, 2011, 90, 2015-2025.	3.6	38
160	Reconstructing a Thauera genome from a hydrogenotrophic-denitrifying consortium using metagenomic sequence data. Applied Microbiology and Biotechnology, 2014, 98, 6885-6895.	3.6	38
161	Impacts of human activities on distribution of sulfate-reducing prokaryotes and antibiotic resistance genes in marine coastal sediments of Hong Kong. FEMS Microbiology Ecology, 2016, 92, fiw128.	2.7	37
162	Biotransformation and adsorption of pharmaceutical and personal care products by activated sludge after correcting matrix effects. Science of the Total Environment, 2016, 544, 980-986.	8.0	37

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163	Bacterial Community Shift and Coexisting/Coexcluding Patterns Revealed by Network Analysis in a Uranium-Contaminated Site after Bioreduction Followed by Reoxidation. Applied and Environmental Microbiology, 2018, 84, .	3.1	37
164	Genome-centric microbiome analysis reveals solid retention time (SRT)-shaped species interactions and niche differentiation in food waste and sludge co-digesters. Water Research, 2020, 181, 115858.	11.3	37
165	Probing Roles of Lipopolysaccharide, Type 1 Fimbria, and Colanic Acid in the Attachment of <i>Escherichia coli</i> Strains on Inert Surfaces. Langmuir, 2011, 27, 11545-11553.	3.5	36
166	Evaluation of a Hybrid Approach Using UBLAST and BLASTX for Metagenomic Sequences Annotation of Specific Functional Genes. PLoS ONE, 2014, 9, e110947.	2.5	36
167	Hydrophobicity of diverse bacterial populations in activated sludge and biofilm revealed by microbial adhesion to hydrocarbons assay and high-throughput sequencing. Colloids and Surfaces B: Biointerfaces, 2014, 114, 379-385.	5.0	36
168	Shift in antibiotic resistance gene profiles associated with nanosilver during wastewater treatment. FEMS Microbiology Ecology, 2016, 92, fiw022.	2.7	35
169	Distribution of arsenic and its biotransformation genes in sediments from the East China Sea. Environmental Pollution, 2019, 253, 949-958.	7.5	35
170	Effects of substrate loading and co-substrates on thermophilic anaerobic conversion of microcrystalline cellulose and microbial communities revealed using high-throughput sequencing. International Journal of Hydrogen Energy, 2012, 37, 13652-13659.	7.1	34
171	Effects of sample preservation and DNA extraction on enumeration of antibiotic resistance genes in wastewater. FEMS Microbiology Ecology, 2018, 94, .	2.7	33
172	Successional dynamics and alternative stable states in a saline activated sludge microbial community over 9Âyears. Microbiome, 2021, 9, 199.	11.1	33
173	Development of Quantitative Real-time PCR Assays for Different Clades of "Candidatus Accumulibacter― Scientific Reports, 2016, 6, 23993.	3.3	32
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