

Mei-Ying Xu

List of Publications by Year in descending order

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74
papers

2,724
citations

218677

26
h-index

214800

47
g-index

76
all docs

76
docs citations

76
times ranked

2899
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversity and species competition regulate the resilience of microbial biofilm community. <i>Molecular Ecology</i> , 2017, 26, 6170-6182.	3.9	299
2	Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential. <i>Carbon</i> , 2019, 1, 173-199.		213
3	A critical review of the appearance of black-odorous waterbodies in China and treatment methods. <i>Journal of Hazardous Materials</i> , 2020, 385, 121511.	12.4	178
4	Elevated nitrate enriches microbial functional genes for potential bioremediation of complexly contaminated sediments. <i>ISME Journal</i> , 2014, 8, 1932-1944.	9.8	164
5	Soil bacterial quantification approaches coupling with relative abundances reflecting the changes of taxa. <i>Scientific Reports</i> , 2017, 7, 4837.	3.3	131
6	Respiration and Growth of <i>Shewanella decolorationis</i> S12 with an Azo Compound as the Sole Electron Acceptor. <i>Applied and Environmental Microbiology</i> , 2007, 73, 64-72.	3.1	110
7	Deterministic Assembly and Diversity Gradient Altered the Biofilm Community Performances of Bioreactors. <i>Environmental Science & Technology</i> , 2019, 53, 1315-1324.	10.0	109
8	A graphene-covalent organic framework hybrid for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2020, 32, 448-457.	18.0	103
9	The divergence between fungal and bacterial communities in seasonal and spatial variations of wastewater treatment plants. <i>Science of the Total Environment</i> , 2018, 628-629, 969-978.	8.0	79
10	One-Dimensional van der Waals Heterostructures as Efficient Metal-Free Oxygen Electrocatalysts. <i>ACS Nano</i> , 2021, 15, 3309-3319.	14.6	79
11	Responses of Aromatic-Degrading Microbial Communities to Elevated Nitrate in Sediments. <i>Environmental Science & Technology</i> , 2015, 49, 12422-12431.	10.0	72
12	Enhancing the bioremediation by harvesting electricity from the heavily contaminated sediments. <i>Bioresource Technology</i> , 2015, 179, 615-618.	9.6	54
13	Sediment microbial fuel cell prefers to degrade organic chemicals with higher polarity. <i>Bioresource Technology</i> , 2015, 190, 420-423.	9.6	50
14	Enhanced phenanthrene degradation in river sediments using a combination of biochar and nitrate. <i>Science of the Total Environment</i> , 2018, 619-620, 600-605.	8.0	50
15	Electron Acceptor-Dependent Respiratory and Physiological Stratifications in Biofilms. <i>Environmental Science & Technology</i> , 2015, 49, 196-202.	10.0	47
16	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9713-9725.	10.3	46
17	Synergistic interactions of <i>Desulfovibrio</i> and <i>Petrimonas</i> for sulfate-reduction coupling polycyclic aromatic hydrocarbon degradation. <i>Journal of Hazardous Materials</i> , 2021, 407, 124385.	12.4	46
18	Cable bacteria extend the impacts of elevated dissolved oxygen into anoxic sediments. <i>ISME Journal</i> , 2021, 15, 1551-1563.	9.8	41

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19	Exploring abundance, diversity and variation of a widespread antibiotic resistance gene in wastewater treatment plants. <i>Environment International</i> , 2018, 117, 186-195.	10.0	40
20	Interactions of PAH-degradation and nitrate-/sulfate-reducing assemblages in anaerobic sediment microbial community. <i>Journal of Hazardous Materials</i> , 2020, 388, 122068.	12.4	37
21	<i>Duganella rivus</i> sp. nov., <i>Duganella fentianensis</i> sp. nov., <i>Duganella qianjiadongensis</i> sp. nov. and <i>Massilia guangdongensis</i> sp. nov., isolated from subtropical streams in China and reclassification of all species within genus <i>Pseudoduganella</i> . <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1155-1165.	1.7	37
22	<i>Undibacterium baiyunense</i> sp. nov., <i>Undibacterium curvum</i> sp. nov., <i>Undibacterium fentianense</i> sp. nov., <i>Undibacterium flavidum</i> sp. nov., <i>Undibacterium griseum</i> sp. nov., <i>Undibacterium hunanense</i> sp. nov., <i>Undibacterium luofuense</i> sp. nov., <i>Undibacterium nitidum</i> sp. nov., <i>Undibacterium rivi</i> sp. nov., <i>Undibacterium rugosum</i> sp. nov. and <i>Undibacterium umbellatum</i> sp. nov., isolated from streams in China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	34
23	Long-distance electron transfer in a filamentous Gram-positive bacterium. <i>Nature Communications</i> , 2021, 12, 1709.	12.8	33
24	The Role of Enriched Microbial Consortium on Iron-Reducing Bioaugmentation in Sediments. <i>Frontiers in Microbiology</i> , 2017, 8, 462.	3.5	32
25	Bioavailability of Polycyclic Aromatic Hydrocarbons and their Potential Application in Eco-risk Assessment and Source Apportionment in Urban River Sediment. <i>Scientific Reports</i> , 2016, 6, 23134.	3.3	31
26	Diffusion and filamentous bacteria jointly govern the spatiotemporal process of sulfide removal in sediment microbial fuel cells. <i>Chemical Engineering Journal</i> , 2021, 405, 126680.	12.7	30
27	<i>Janthinobacterium violaceinigrum</i> sp. nov., <i>Janthinobacterium aquaticum</i> sp. nov. and <i>Janthinobacterium rivuli</i> sp. nov., isolated from a subtropical stream in China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 2719-2725.	1.7	30
28	A Highly Sensitive Fluorescent Sensor for Palladium and Direct Imaging of Its Ecotoxicity in Living Model Organisms. <i>Chemistry - an Asian Journal</i> , 2016, 11, 43-48.	3.3	28
29	<i>Lysinibacillus varians</i> sp. nov., an endospore-forming bacterium with a filament-to-rod cell cycle. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3644-3649.	1.7	27
30	<i>Sphingobium hydrophobicum</i> sp. nov., a hydrophobic bacterium isolated from electronic-waste-contaminated sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3912-3916.	1.7	26
31	<i>Duganella lactea</i> sp. nov., <i>Duganella guangzhouensis</i> sp. nov., <i>Duganella flavida</i> sp. nov. and <i>Massilia rivuli</i> sp. nov., isolated from a subtropical stream in PR China and proposal to reclassify <i>Duganella ginsengisoli</i> as <i>Massilia ginsengisoli</i> comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4822-4830.	1.7	25
32	Assemble 2D redox-active covalent organic framework/graphene hybrids as high-performance capacitive materials. <i>Carbon</i> , 2022, 190, 412-421.	10.3	24
33	Optimizing the electrode surface area of sediment microbial fuel cells. <i>RSC Advances</i> , 2018, 8, 25319-25324.	3.6	23
34	Modified pretreatment method for total microbial DNA extraction from contaminated river sediment. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 444-452.	6.0	21
35	Metagenomic insights into the metabolism and evolution of a new Thermoplasmata order (<i>Candidatus</i> Gimiplasmatales). <i>Environmental Microbiology</i> , 2021, 23, 3695-3709.	3.8	21
36	Elevated nitrate simplifies microbial community compositions and interactions in sulfide-rich river sediments. <i>Science of the Total Environment</i> , 2021, 750, 141513.	8.0	21

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37	Carbon dots derived from kanamycin sulfate with antibacterial activity and selectivity for Cr ⁶⁺ detection. <i>Analyst</i> , The, 2021, 146, 1965-1972.	3.5	21
38	<i>Duganella albus</i> sp. nov., <i>Duganella aquatilis</i> sp. nov., <i>Duganella pernnla</i> sp. nov. and <i>Duganella levis</i> sp. nov., isolated from subtropical streams in China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 3801-3808.	1.7	21
39	Adaptive Responses of <i>Shewanella decolorationis</i> to Toxic Organic Extracellular Electron Acceptor Azo Dyes in Anaerobic Respiration. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	20
40	Evaluation of NO _x removal from flue gas and Fe(II)EDTA regeneration using a novel BTF-ABR integrated system. <i>Journal of Hazardous Materials</i> , 2021, 415, 125741.	12.4	20
41	Characterization of the enhancement of zero valent iron on microbial azo reduction. <i>BMC Microbiology</i> , 2015, 15, 85.	3.3	19
42	Synergistic degradation of deca-BDE by an enrichment culture and zero-valent iron. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7856-7862.	5.3	15
43	Role and mechanism of cell-surface hydrophobicity in the adaptation of <i>Sphingobium hydrophobicum</i> to electronic-waste contaminated sediment. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2803-2815.	3.6	14
44	Response of environmental variables and microbial community to sodium percarbonate addition to contaminated sediment. <i>Chemosphere</i> , 2018, 211, 500-509.	8.2	14
45	Enhancement of using combined packing materials on the removal of mixed sulfur compounds in a biotrickling filter and analysis of microbial communities. <i>BMC Biotechnology</i> , 2019, 19, 52.	3.3	12
46	FRET-based fluorescent nanoprobe platform for sorting of active microorganisms by functional properties. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111832.	10.1	12
47	Viscosity sensitive near-infrared fluorescent probes based on functionalized single-walled carbon nanotubes. <i>Chemical Communications</i> , 2020, 56, 8301-8304.	4.1	11
48	<i>Bowmanella yangjiangensis</i> sp. nov. and <i>Amphritea pacifica</i> sp. nov., isolated from mariculture fishponds in China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	11
49	<i>Rugamonas aquatica</i> sp. nov. and <i>Rugamonas rivuli</i> sp. nov., isolated from a subtropical stream in PR China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 3328-3334.	1.7	11
50	<i>Novosphingobium percolationis</i> sp. nov. and <i>Novosphingobium huizhouense</i> sp. nov., isolated from landfill leachate of a domestic waste treatment plant. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	1.7	11
51	Visualizing and Isolating Iron-Reducing Microorganisms at the Single-Cell Level. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	10
52	One-dimensional covalent organic framework- ¹³ C carbon nanotube heterostructures for efficient capacitive energy storage. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	9
53	Effects of Flavin-Goethite Interaction on Goethite Reduction by <i>Shewanella decolorationis</i> S12. <i>Frontiers in Microbiology</i> , 2019, 10, 1623.	3.5	8
54	Enhancement of microbial redox cycling of iron in zero-valent iron oxidation coupling with deca-brominated diphenyl ether removal. <i>Science of the Total Environment</i> , 2020, 748, 141328.	8.0	8

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55	Extracellular chemoreceptor of deca-brominated diphenyl ether and its engineering in the hydrophobic chassis cell for organics biosensing. <i>Chemical Engineering Journal</i> , 2022, 433, 133266.	12.7	8
56	Goethite Hinders Azo Dye Bioreduction by Blocking Terminal Reductive Sites on the Outer Membrane of <i>Shewanella decolorationis</i> S12. <i>Frontiers in Microbiology</i> , 2019, 10, 1452.	3.5	7
57	Adaptive Evolution of <i>Sphingobium hydrophobicum</i> C1T in Electronic Waste Contaminated River Sediment. <i>Frontiers in Microbiology</i> , 2019, 10, 2263.	3.5	7
58	<i>Algoriphagus pacificus</i> sp. nov. and <i>Algoriphagus oliviformis</i> sp. nov., isolated from a mariculture fishpond. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	7
59	<i>Brevibacterium rongguiense</i> sp. nov., isolated from freshwater sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5205-5210.	1.7	7
60	Water quality drives the distribution of freshwater cable bacteria. <i>Science of the Total Environment</i> , 2022, 841, 156468.	8.0	6
61	<i>Ciceribacter ferrooxidans</i> sp. nov., a nitrate-reducing Fe(II)-oxidizing bacterium isolated from ferrous ion-rich sediment. <i>Journal of Microbiology</i> , 2020, 58, 350-356.	2.8	5
62	Microbial carriers promote and guide pyrene migration in sediments. <i>Journal of Hazardous Materials</i> , 2022, 424, 127188.	12.4	5
63	Variable cell division time and asymmetric division site lead to filament-to-rod cell cycle of <i>Lysinibacillus varians</i> . <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	4
64	Function-Oriented Graphene Quantum Dots Probe for Single Cell in situ Sorting of Active Microorganisms in Environmental Samples. <i>Frontiers in Microbiology</i> , 2021, 12, 659111.	3.5	4
65	Electrochemical activity produced from abundant expression of cétype cytochromes in a filamentous Gramépositive bacterium. <i>ChemElectroChem</i> , 2021, 8, 4124.	3.4	4
66	Microbial depassivation of Fe(0) for contaminant removal under semi-aerobic conditions. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8595-8605.	3.6	3
67	Lack of Periplasmic Non-heme Protein SorA Increases <i>Shewanella decolorationis</i> Current Generation. <i>Frontiers in Microbiology</i> , 2020, 11, 262.	3.5	3
68	<i>Massilia aquatica</i> sp. nov., Isolated from a Subtropical Stream in China. <i>Current Microbiology</i> , 2020, 77, 3185-3191.	2.2	3
69	Molecular mechanism of zero valent iron-enhanced microbial azo reduction. <i>Environmental Pollution</i> , 2021, 290, 118046.	7.5	3
70	Identification of stress-responsive transcription factors with protein-bound <i>Escherichia coli</i> genomic DNA libraries. <i>AMB Express</i> , 2020, 10, 199.	3.0	2
71	Effects of unit distance and number on sediment microbial fuel cell stacks for practical power supply. <i>International Journal of Energy Research</i> , 2019, 43, 7287.	4.5	1
72	Characteristics and functional analysis of the secondary chromosome and plasmids in <i>sphingomonad</i> . <i>International Biodeterioration and Biodegradation</i> , 2022, 171, 105402.	3.9	1

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73	Perspectives on Microbial Electron Transfer Networks for Environmental Biotechnology. <i>Frontiers in Microbiology</i> , 2022, 13, 845796.	3.5	1
74	Comparative evaluation of <i>Vibrio</i> delineation methodologies in post-genomic era. <i>Environmental Microbiology Reports</i> , 2021, 13, 209-217.	2.4	0