

# Fanghua Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

6,760  
citations

109321

35  
h-index

62596

80  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ni-CaO dual function materials prepared by different synthetic modes for integrated CO <sub>2</sub> capture and conversion. <i>Chemical Engineering Journal</i> , 2022, 428, 132110.	12.7	62
2	Rapid removal of chloramphenicol via the synergy of <i>Geobacter</i> and metal oxide nanoparticles. <i>Chemosphere</i> , 2022, 286, 131943.	8.2	9
3	Effects of Magnetic Minerals Exposure and Microbial Responses in Surface Sediment across the Bohai Sea. <i>Microorganisms</i> , 2022, 10, 6.	3.6	1
4	Selectively facilitating the electron acceptance of methanogens by riboflavin. <i>Renewable Energy</i> , 2022, 195, 734-741.	8.9	5
5	Poly( <i>para</i> -phenylene) ionomer membranes: effect of methyl and trifluoromethyl substituents. <i>Polymer Chemistry</i> , 2021, 12, 6101-6109.	3.9	8
6	Augmentation of chloramphenicol degradation by <i>Geobacter</i> -based biocatalysis and electric field. <i>Journal of Hazardous Materials</i> , 2021, 410, 124977.	12.4	31
7	Biochar promotes methane production during anaerobic digestion of organic waste. <i>Environmental Chemistry Letters</i> , 2021, 19, 3557-3564.	16.2	24
8	Causal associations of serum matrix metalloproteinase-8 level with ischaemic stroke and ischaemic stroke subtypes: a Mendelian randomization study. <i>European Journal of Neurology</i> , 2021, 28, 2543-2551.	3.3	7
9	Human papillomavirus vaccination coverage and knowledge, perceptions and influencing factors among university students in Guangzhou, China. <i>Human Vaccines and Immunotherapeutics</i> , 2021, 17, 3603-3612.	3.3	18
10	Analysis of Raman Spectra by Using Deep Learning Methods in the Identification of Marine Pathogens. <i>Analytical Chemistry</i> , 2021, 93, 11089-11098.	6.5	40
11	Comparative genomic analysis reveals metabolic flexibility of <i>Woesearchaeota</i> . <i>Nature Communications</i> , 2021, 12, 5281.	12.8	25
12	Proteomics reveal biomethane production process induced by carbon nanotube. <i>Environmental Research</i> , 2021, 200, 111417.	7.5	7
13	Complete Genome Sequence of <i>Methanobacterium electrotrophus</i> Strain YSL, Isolated from Coastal Riverine Sediments. <i>Microbiology Resource Announcements</i> , 2021, 10, e0075221.	0.6	1
14	<i>Desulfovibrio</i> feeding <i>Methanobacterium</i> with electrons in conductive methanogenic aggregates from coastal zones. <i>Water Research</i> , 2021, 202, 117490.	11.3	70
15	Causal effect of Lipoprotein-associated phospholipase A2 activity on coronary artery disease and myocardial infarction: A Two-Sample Mendelian Randomization study. <i>Clinica Chimica Acta</i> , 2021, 523, 491-496.	1.1	3
16	<i>Iocasia fonsfrigidiae</i> NS-1 gen. nov., sp. nov., a Novel Deep-Sea Bacterium Possessing Diverse Carbohydrate Metabolic Pathways. <i>Frontiers in Microbiology</i> , 2021, 12, 725159.	3.5	2
17	The differentiation of iron-reducing bacterial community and iron-reduction activity between riverine and marine sediments in the Yellow River estuary. <i>Marine Life Science and Technology</i> , 2020, 2, 87-96.	4.6	24
18	A smart-phone-based electrochemical platform with programmable solid-state-microwave flow digestion for determination of heavy metals in liquid food. <i>Food Chemistry</i> , 2020, 303, 125378.	8.2	42

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19	Inhibition effect of polyvinyl chloride on ferrihydrite reduction and electrochemical activities of <i>Geobacter metallireducens</i> . <i>Journal of Basic Microbiology</i> , 2020, 60, 37-46.	3.3	8
20	Heterogeneous activation of peroxymonosulfate by a biochar-supported Co <sub>3</sub> O <sub>4</sub> composite for efficient degradation of chloramphenicols. <i>Environmental Pollution</i> , 2020, 257, 113610.	7.5	95
21	<i>Methylobacter</i> accounts for strong aerobic methane oxidation in the Yellow River Delta with characteristics of a methane sink during the dry season. <i>Science of the Total Environment</i> , 2020, 704, 135383.	8.0	22
22	<i>Methanobacterium</i> Capable of Direct Interspecies Electron Transfer. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15347-15354.	10.0	135
23	Contact Settings and Risk for Transmission in 3410 Close Contacts of Patients With COVID-19 in Guangzhou, China. <i>Annals of Internal Medicine</i> , 2020, 173, 879-887.	3.9	191
24	Carbon nanotubes accelerate acetoclastic methanogenesis: From pure cultures to anaerobic soils. <i>Soil Biology and Biochemistry</i> , 2020, 150, 107938.	8.8	35
25	Effects of Organic Phosphorus on Methylophilic Methanogenesis in Coastal Lagoon Sediments With Seagrass ( <i>Zostera marina</i> ) Colonization. <i>Frontiers in Microbiology</i> , 2020, 11, 1770.	3.5	12
26	A Dual-Wavelength Ocean Lidar for Vertical Profiling of Oceanic Backscatter and Attenuation. <i>Remote Sensing</i> , 2020, 12, 2844.	4.0	20
27	An invasive beetle-fungus complex is maintained by fungal nutritional-compensation mediated by bacterial volatiles. <i>ISME Journal</i> , 2020, 14, 2829-2842.	9.8	17
28	Ferrihydrite Reduction Exclusively Stimulated Hydrogen Production by <i>Clostridium</i> with Community Metabolic Pathway Bifurcation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7574-7580.	6.7	19
29	In Vivo Molecular Insights into Syntrophic <i>Geobacter</i> Aggregates. <i>Analytical Chemistry</i> , 2020, 92, 10402-10411.	6.5	6
30	Methane production by acetate dismutation stimulated by <i>Shewanella oneidensis</i> and carbon materials: An alternative to classical CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2020, 389, 124469.	12.7	40
31	Photocatalytic properties, mechanical strength and durability of TiO <sub>2</sub> /cement composites prepared by a spraying method for removal of organic pollutants. <i>Chemosphere</i> , 2020, 254, 126813.	8.2	33
32	Classification of pathogens by Raman spectroscopy combined with generative adversarial networks. <i>Science of the Total Environment</i> , 2020, 726, 138477.	8.0	33
33	Effect of Antibiotics on the Microbial Efficiency of Anaerobic Digestion of Wastewater: A Review. <i>Frontiers in Microbiology</i> , 2020, 11, 611613.	3.5	38
34	Target-oriented recruitment of <i>Clostridium</i> to promote biohydrogen production by nano-ferrihydrite. <i>Fuel</i> , 2020, 276, 118049.	6.4	13
35	Compact dual-wavelength blue-green laser for airborne ocean detection lidar. <i>Applied Optics</i> , 2020, 59, C87.	1.8	12
36	Photocatalytic performances and durability of TiO <sub>2</sub> /cement composites prepared by a smear method for organic wastewater degradation. <i>Ceramics International</i> , 2019, 45, 23061-23069.	4.8	16

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37	Substrate-Related Factors Affecting Cellulosome-Induced Hydrolysis for Lignocellulose Valorization. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3354.	4.1	22
38	Simultaneous intensification of direct acetate cleavage and CO <sub>2</sub> reduction to generate methane by bioaugmentation and increased electron transfer. <i>Chemical Engineering Journal</i> , 2019, 378, 122229.	12.7	58
39	Peak selection matters in principal component analysis: A case study of syntrophic microbes. <i>Biointerphases</i> , 2019, 14, 051004.	1.6	7
40	A potential contribution of a Fe(III)-rich red clay horizon to methane release: Biogenetic magnetite-mediated methanogenesis. <i>Catena</i> , 2019, 181, 104081.	5.0	26
41	Extraction of electrons by magnetite and ferrihydrite from hydrogen-producing <i>Clostridium bifermentans</i> by strengthening the acetate production pathway. <i>Science China Technological Sciences</i> , 2019, 62, 1719-1725.	4.0	15
42	Reductive degradation of chloramphenicol by <i>Geobacter metallireducens</i> . <i>Science China Technological Sciences</i> , 2019, 62, 1688-1694.	4.0	20
43	Hydrophobic side chains to enhance hydroxide conductivity and physicochemical stabilities of side-chain-type polymer AEMs. <i>Journal of Membrane Science</i> , 2019, 585, 90-98.	8.2	53
44	Stimulation of ferrihydrite nanorods on fermentative hydrogen production by <i>Clostridium pasteurianum</i> . <i>Bioresource Technology</i> , 2019, 283, 308-315.	9.6	42
45	Trophic strategy of diverse methanogens across a river-to-sea gradient. <i>Journal of Microbiology</i> , 2019, 57, 470-478.	2.8	11
46	Anaerobic Bacterial Immobilization and Removal of Toxic Sb(III) Coupled With Fe(II)/Sb(III) Oxidation and Denitrification. <i>Frontiers in Microbiology</i> , 2019, 10, 360.	3.5	32
47	Biochar promotes methane production at high acetate concentrations in anaerobic soils. <i>Environmental Chemistry Letters</i> , 2019, 17, 1347-1352.	16.2	37
48	Stimulatory effect of magnetite on the syntrophic metabolism of <i>Geobacter</i> co-cultures: Influences of surface coating. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 256, 82-96.	3.9	20
49	Miniaturized underwater polarized radiation measuring instrument. , 2019, , .		1
50	Enrichment culture of electroactive microorganisms with high magnetic susceptibility enhances the performance of microbial fuel cells. <i>Bioelectrochemistry</i> , 2018, 121, 65-73.	4.6	11
51	Nano-Fe <sub>3</sub> O <sub>4</sub> particles accelerating electromethanogenesis on an hour-long timescale in wetland soil. <i>Environmental Science: Nano</i> , 2018, 5, 436-445.	4.3	50
52	Comparative transcriptomic insights into the mechanisms of electron transfer in <i>Geobacter</i> co-cultures with activated carbon and magnetite. <i>Science China Life Sciences</i> , 2018, 61, 787-798.	4.9	12
53	Development of a Contactless Air Conveyor System for Transporting and Positioning Planar Objects. <i>Micromachines</i> , 2018, 9, 487.	2.9	12
54	A new insight into the strategy for methane production affected by conductive carbon cloth in wetland soil: Beneficial to acetoclastic methanogenesis instead of CO <sub>2</sub> reduction. <i>Science of the Total Environment</i> , 2018, 643, 1024-1030.	8.0	78

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55	Surface properties of activated sludge-derived biochar determine the facilitating effects on <i>Geobacter</i> co-cultures. <i>Water Research</i> , 2018, 142, 441-451.	11.3	104
56	Necessity of electrically conductive pili for methanogenesis with magnetite stimulation. <i>PeerJ</i> , 2018, 6, e4541.	2.0	21
57	Spatial variation in bacterial community in natural wetland-river-sea ecosystems. <i>Journal of Basic Microbiology</i> , 2017, 57, 536-546.	3.3	33
58	Stimulation of long-term ammonium nitrogen deposition on methanogenesis by Methanocellaceae in a coastal wetland. <i>Science of the Total Environment</i> , 2017, 595, 337-343.	8.0	42
59	Electrochemically active iron (III)-reducing bacteria in coastal riverine sediments. <i>Journal of Basic Microbiology</i> , 2017, 57, 1045-1054.	3.3	9
60	Characterization of syntrophic <i>Geobacter</i> communities using ToF-SIMS. <i>Biointerphases</i> , 2017, 12, 05G601.	1.6	23
61	Magnetite production and transformation in the methanogenic consortia from coastal riverine sediments. <i>Journal of Microbiology</i> , 2017, 55, 862-870.	2.8	18
62	XC_0531 encodes a c-type cytochrome biogenesis protein and is required for pathogenesis in <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>BMC Microbiology</i> , 2017, 17, 142.	3.3	4
63	HAL2 overexpression induces iron acquisition in <i>bdf1</i> <sup>+</sup> cells and enhances their salt resistance. <i>Current Genetics</i> , 2017, 63, 229-239.	1.7	2
64	The possible role of bacterial signal molecules N-acyl homoserine lactones in the formation of diatom-biofilm ( <i>Cylindrotheca</i> sp.). <i>Marine Pollution Bulletin</i> , 2016, 107, 118-124.	5.0	29
65	The selective expression of carbonic anhydrase genes of <i>Aspergillus nidulans</i> in response to changes in mineral nutrition and CO <sub>2</sub> concentration. <i>MicrobiologyOpen</i> , 2016, 5, 60-69.	3.0	12
66	The Role of Microorganisms in the Geochemical Iron Cycle. <i>Scientia Sinica Vitae</i> , 2016, 46, 1069-1078.	0.3	3
67	Co-occurrence of <i>Methanosarcina mazei</i> and <i>Geobacteraceae</i> in an iron (III)-reducing enrichment culture. <i>Frontiers in Microbiology</i> , 2015, 6, 941.	3.5	43
68	Seagrass ( <i>Zostera marina</i> ) Colonization Promotes the Accumulation of Diazotrophic Bacteria and Alters the Relative Abundances of Specific Bacterial Lineages Involved in Benthic Carbon and Sulfur Cycling. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6901-6914.	3.1	87
69	Magnetite compensates for the lack of a pili-associated c-type cytochrome in extracellular electron exchange. <i>Environmental Microbiology</i> , 2015, 17, 648-655.	3.8	300
70	Insight into Dominant Cellulolytic Bacteria from Two Biogas Digesters and Their Glycoside Hydrolase Genes. <i>PLoS ONE</i> , 2015, 10, e0129921.	2.5	38
71	Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. <i>Bioresource Technology</i> , 2014, 174, 306-310.	9.6	137
72	Direct Interspecies Electron Transfer between <i>Geobacter metallireducens</i> and <i>Methanosarcina barkeri</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 4599-4605.	3.1	714

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73	A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to Methanosaeta for the reduction of carbon dioxide to methane. <i>Energy and Environmental Science</i> , 2014, 7, 408-415.	30.8	1,074
74	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. <i>Bioresource Technology</i> , 2014, 173, 82-86.	9.6	323
75	Promoting Interspecies Electron Transfer with Biochar. <i>Scientific Reports</i> , 2014, 4, 5019.	3.3	429
76	Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. <i>Environmental Microbiology Reports</i> , 2013, 5, 904-910.	2.4	137
77	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2397-2404.	3.1	168
78	Interspecies Electron Transfer via Hydrogen and Formate Rather than Direct Electrical Connections in Cocultures of <i>Pelobacter carbinolicus</i> and <i>Geobacter sulfurreducens</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 7645-7651.	3.1	148
79	Promoting direct interspecies electron transfer with activated carbon. <i>Energy and Environmental Science</i> , 2012, 5, 8982.	30.8	718
80	Expression and characterization of a novel metagenome-derived cellulase Exo2b and its application to improve cellulase activity in <i>Trichoderma reesei</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 951-962.	3.6	43
81	Chemolithotrophic acetogenic H <sub>2</sub> /CO <sub>2</sub> utilization in Italian rice field soil. <i>ISME Journal</i> , 2011, 5, 1526-1539.	9.8	46
82	<i>Thermoanaerobacteriaceae</i> oxidize acetate in methanogenic rice field soil at 50°C. <i>Environmental Microbiology</i> , 2010, 12, 2341-2354.	3.8	61
83	The structure of the bacterial and archaeal community in a biogas digester as revealed by denaturing gradient gel electrophoresis and 16S rDNA sequencing analysis. <i>Journal of Applied Microbiology</i> , 2009, 106, 952-966.	3.1	130
84	Bacterial and archaeal assemblages in sediments of a large shallow freshwater lake, Lake Taihu, as revealed by denaturing gradient gel electrophoresis. <i>Journal of Applied Microbiology</i> , 2009, 106, 1022-1032.	3.1	71
85	Characteristics of a new photosynthetic bacterial strain for hydrogen production and its application in wastewater treatment. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 963-973.	7.1	158
86	Identification of genes induced during <i>Medicago sativa</i> nodule development by using the cDNA-AFLP technique. <i>Science Bulletin</i> , 2006, 51, 2087-2094.	1.7	3