Fanghua Liu

List of Publications by Year
in descending order

86	6,760	109321 35	62596 80
papers	citations	h-index	g-index

90	90	90	5072
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to Methanosaeta for the reduction of carbon dioxide to methane. Energy and Environmental Science, 2014, 7, 408-415.	30.8	1,074
2	Promoting direct interspecies electron transfer with activated carbon. Energy and Environmental Science, 2012, 5, 8982.	30.8	718
3	Direct Interspecies Electron Transfer between Geobacter metallireducens and Methanosarcina barkeri. Applied and Environmental Microbiology, 2014, 80, 4599-4605.	3.1	714
4	Promoting Interspecies Electron Transfer with Biochar. Scientific Reports, 2014, 4, 5019.	3.3	429
5	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. Bioresource Technology, 2014, 173, 82-86.	9.6	323
6	Magnetite compensates for the lack of a pilinâ€associated <scp>c</scp>â€type cytochrome in extracellular electron exchange. Environmental Microbiology, 2015, 17, 648-655.	3.8	300
7	Contact Settings and Risk for Transmission in 3410 Close Contacts of Patients With COVID-19 in Guangzhou, China. Annals of Internal Medicine, 2020, 173, 879-887.	3.9	191
8	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. Applied and Environmental Microbiology, 2013, 79, 2397-2404.	3.1	168
9	Characteristics of a new photosynthetic bacterial strain for hydrogen production and its application in wastewater treatment. International Journal of Hydrogen Energy, 2008, 33, 963-973.	7.1	158
10	Interspecies Electron Transfer via Hydrogen and Formate Rather than Direct Electrical Connections in Cocultures of Pelobacter carbinolicus and Geobacter sulfurreducens. Applied and Environmental Microbiology, 2012, 78, 7645-7651.	3.1	148
11	Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. Environmental Microbiology Reports, 2013, 5, 904-910.	2.4	137
12	Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. Bioresource Technology, 2014, 174, 306-310.	9.6	137
13	Methanobacterium Capable of Direct Interspecies Electron Transfer. Environmental Science & Technology, 2020, 54, 15347-15354.	10.0	135
14	The structure of the bacterial and archaeal community in a biogas digester as revealed by denaturing gradient gel electrophoresis and 16S rDNA sequencing analysis. Journal of Applied Microbiology, 2009, 106, 952-966.	3.1	130
15	Surface properties of activated sludge-derived biochar determine the facilitating effects on Geobacter co-cultures. Water Research, 2018, 142, 441-451.	11.3	104
16	Heterogeneous activation of peroxymonosulfate by a biochar-supported Co3O4 composite for efficient degradation of chloramphenicols. Environmental Pollution, 2020, 257, 113610.	7.5	95
17	Seagrass (Zostera marina) Colonization Promotes the Accumulation of Diazotrophic Bacteria and Alters the Relative Abundances of Specific Bacterial Lineages Involved in Benthic Carbon and Sulfur Cycling. Applied and Environmental Microbiology, 2015, 81, 6901-6914.	3.1	87
18	A new insight into the strategy for methane production affected by conductive carbon cloth in wetland soil: Beneficial to acetoclastic methanogenesis instead of CO2 reduction. Science of the Total Environment, 2018, 643, 1024-1030.	8.0	78

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19	Bacterial and archaeal assemblages in sediments of a large shallow freshwater lake, Lake Taihu, as revealed by denaturing gradient gel electrophoresis. Journal of Applied Microbiology, 2009, 106, 1022-1032.	3.1	71
20	Desulfovibrio feeding Methanobacterium with electrons in conductive methanogenic aggregates from coastal zones. Water Research, 2021, 202, 117490.	11.3	70
21	Ni-CaO dual function materials prepared by different synthetic modes for integrated CO2 capture and conversion. Chemical Engineering Journal, 2022, 428, 132110.	12.7	62
22	Thermoanaerobacteriaceae oxidize acetate in methanogenic rice field soil at 50Â°C. Environmental Microbiology, 2010, 12, 2341-2354.	3.8	61
23	Simultaneous intensification of direct acetate cleavage and CO2 reduction to generate methane by bioaugmentation and increased electron transfer. Chemical Engineering Journal, 2019, 378, 122229.	12.7	58
24	Hydrophobic side chains to enhance hydroxide conductivity and physicochemical stabilities of side-chain-type polymer AEMs. Journal of Membrane Science, 2019, 585, 90-98.	8.2	53
25	Nano-Fe₃O₄particles accelerating electromethanogenesis on an hour-long timescale in wetland soil. Environmental Science: Nano, 2018, 5, 436-445.	4.3	50
26	Chemolithotrophic acetogenic H2/CO2 utilization in Italian rice field soil. ISME Journal, 2011, 5, 1526-1539.	9.8	46
27	Expression and characterization of a novel metagenome-derived cellulase Exo2b and its application to improve cellulase activity in Trichoderma reesei. Applied Microbiology and Biotechnology, 2012, 96, 951-962.	3.6	43
28	Co-occurrence of Methanosarcina mazei and Geobacteraceae in an iron (III)-reducing enrichment culture. Frontiers in Microbiology, 2015, 6, 941.	3.5	43
29	Stimulation of long-term ammonium nitrogen deposition on methanogenesis by Methanocellaceae in a coastal wetland. Science of the Total Environment, 2017, 595, 337-343.	8.0	42
30	Stimulation of ferrihydrite nanorods on fermentative hydrogen production by Clostridium pasteurianum. Bioresource Technology, 2019, 283, 308-315.	9.6	42
31	A smart-phone-based electrochemical platform with programmable solid-state-microwave flow digestion for determination of heavy metals in liquid food. Food Chemistry, 2020, 303, 125378.	8.2	42
32	Methane production by acetate dismutation stimulated by Shewanella oneidensis and carbon materials: An alternative to classical CO2 reduction. Chemical Engineering Journal, 2020, 389, 124469.	12.7	40
33	Analysis of Raman Spectra by Using Deep Learning Methods in the Identification of Marine Pathogens. Analytical Chemistry, 2021, 93, 11089-11098.	6.5	40
34	Effect of Antibiotics on the Microbial Efficiency of Anaerobic Digestion of Wastewater: A Review. Frontiers in Microbiology, 2020, 11, 611613.	3.5	38
35	Insight into Dominant Cellulolytic Bacteria from Two Biogas Digesters and Their Glycoside Hydrolase Genes. PLoS ONE, 2015, 10, e0129921.	2.5	38
36	Biochar promotes methane production at high acetate concentrations in anaerobic soils. Environmental Chemistry Letters, 2019, 17, 1347-1352.	16.2	37

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37	Carbon nanotubes accelerate acetoclastic methanogenesis: From pure cultures to anaerobic soils. Soil Biology and Biochemistry, 2020, 150, 107938.	8.8	35
38	Spatial variation in bacterial community in natural wetlandâ€riverâ€sea ecosystems. Journal of Basic Microbiology, 2017, 57, 536-546.	3.3	33
39	Photocatalytic properties, mechanical strength and durability of TiO2/cement composites prepared by a spraying method for removal of organic pollutants. Chemosphere, 2020, 254, 126813.	8.2	33
40	Classification of pathogens by Raman spectroscopy combined with generative adversarial networks. Science of the Total Environment, 2020, 726, 138477.	8.0	33
41	Anaerobic Bacterial Immobilization and Removal of Toxic Sb(III) Coupled With Fe(II)/Sb(III) Oxidation and Denitrification. Frontiers in Microbiology, 2019, 10, 360.	3.5	32
42	Augmentation of chloramphenicol degradation by Geobacter-based biocatalysis and electric field. Journal of Hazardous Materials, 2021, 410, 124977.	12.4	31
43	The possible role of bacterial signal molecules N-acyl homoserine lactones in the formation of diatom-biofilm (Cylindrotheca sp.). Marine Pollution Bulletin, 2016, 107, 118-124.	5.0	29
44	A potential contribution of a Fe(III)-rich red clay horizon to methane release: Biogenetic magnetite-mediated methanogenesis. Catena, 2019, 181, 104081.	5.0	26
45	Comparative genomic analysis reveals metabolic flexibility of Woesearchaeota. Nature Communications, 2021, 12, 5281.	12.8	25
46	The differentiation of iron-reducing bacterial community and iron-reduction activity between riverine and marine sediments in the Yellow River estuary. Marine Life Science and Technology, 2020, 2, 87-96.	4.6	24
47	Biochar promotes methane production during anaerobic digestion of organic waste. Environmental Chemistry Letters, 2021, 19, 3557-3564.	16.2	24
48	Characterization of syntrophic Geobacter communities using ToF-SIMS. Biointerphases, 2017, 12, 05G601.	1.6	23
49	Substrate-Related Factors Affecting Cellulosome-Induced Hydrolysis for Lignocellulose Valorization. International Journal of Molecular Sciences, 2019, 20, 3354.	4.1	22
50	Methylobacter accounts for strong aerobic methane oxidation in the Yellow River Delta with characteristics of a methane sink during the dry season. Science of the Total Environment, 2020, 704, 135383.	8.0	22
51	Necessity of electrically conductive pili for methanogenesis with magnetite stimulation. PeerJ, 2018, 6, e4541.	2.0	21
52	Reductive degradation of chloramphenicol by Geobacter metallireducens. Science China Technological Sciences, 2019, 62, 1688-1694.	4.0	20
53	Stimulatory effect of magnetite on the syntrophic metabolism of Geobacter co-cultures: Influences of surface coating. Geochimica Et Cosmochimica Acta, 2019, 256, 82-96.	3.9	20
54	A Dual-Wavelength Ocean Lidar for Vertical Profiling of Oceanic Backscatter and Attenuation. Remote Sensing, 2020, 12, 2844.	4.0	20

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55	Ferrihydrite Reduction Exclusively Stimulated Hydrogen Production by Clostridium with Community Metabolic Pathway Bifurcation. ACS Sustainable Chemistry and Engineering, 2020, 8, 7574-7580.	6.7	19
56	Magnetite production and transformation in the methanogenic consortia from coastal riverine sediments. Journal of Microbiology, 2017, 55, 862-870.	2.8	18
57	Human papillomavirus vaccination coverage and knowledge, perceptions and influencing factors among university students in Guangzhou, China. Human Vaccines and Immunotherapeutics, 2021, 17, 3603-3612.	3.3	18
58	An invasive beetleâ€“fungus complex is maintained by fungal nutritional-compensation mediated by bacterial volatiles. ISME Journal, 2020, 14, 2829-2842.	9.8	17
59	Photocatalytic performances and durability of TiO2/cement composites prepared by a smear method for organic wastewater degradation. Ceramics International, 2019, 45, 23061-23069.	4.8	16
60	Extraction of electrons by magnetite and ferrihydrite from hydrogen-producing Clostridium bifermentans by strengthening the acetate production pathway. Science China Technological Sciences, 2019, 62, 1719-1725.	4.0	15
61	Target-oriented recruitment of Clostridium to promote biohydrogen production by nano-ferrihydrite. Fuel, 2020, 276, 118049.	6.4	13
62	The selective expression of carbonic anhydrase genes of Aspergillus nidulans in response to changes in mineral nutrition and <scp>CO</scp>₂ concentration. MicrobiologyOpen, 2016, 5, 60-69.	3.0	12
63	Comparative transcriptomic insights into the mechanisms of electron transfer in Geobacter co-cultures with activated carbon and magnetite. Science China Life Sciences, 2018, 61, 787-798.	4.9	12
64	Development of a Contactless Air Conveyor System for Transporting and Positioning Planar Objects. Micromachines, 2018, 9, 487.	2.9	12
65	Effects of Organic Phosphorus on Methylotrophic Methanogenesis in Coastal Lagoon Sediments With Seagrass (Zostera marina) Colonization. Frontiers in Microbiology, 2020, 11, 1770.	3.5	12
66	Compact dual-wavelength blue-green laser for airborne ocean detection lidar. Applied Optics, 2020, 59, C87.	1.8	12
67	Enrichment culture of electroactive microorganisms with high magnetic susceptibility enhances the performance of microbial fuel cells. Bioelectrochemistry, 2018, 121, 65-73.	4.6	11
68	Trophic strategy of diverse methanogens across a river-to-sea gradient. Journal of Microbiology, 2019, 57, 470-478.	2.8	11
69	Electrochemically active iron (III)â€reducing bacteria in coastal riverine sediments. Journal of Basic Microbiology, 2017, 57, 1045-1054.	3.3	9
70	Rapid removal of chloramphenicol via the synergy of Geobacter and metal oxide nanoparticles. Chemosphere, 2022, 286, 131943.	8.2	9
71	Inhibition effect of polyvinyl chloride on ferrihydrite reduction and electrochemical activities of Geobacter metallireducens. Journal of Basic Microbiology, 2020, 60, 37-46.	3.3	8
72	Poly(para-phenylene) ionomer membranes: effect of methyl and trifluoromethyl substituents. Polymer Chemistry, 2021, 12, 6101-6109.	3.9	8

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73	Peak selection matters in principal component analysis: A case study of syntrophic microbes. Biointerphases, 2019, 14, 051004.	1.6	7
74	Causal associations of serum matrix metalloproteinaseâ€8 level with ischaemic stroke and ischaemic stroke subtypes: a Mendelian randomization study. European Journal of Neurology, 2021, 28, 2543-2551.	3.3	7
75	Proteomics reveal biomethane production process induced by carbon nanotube. Environmental Research, 2021, 200, 111417.	7.5	7
76	In Vivo Molecular Insights into Syntrophic Geobacter Aggregates. Analytical Chemistry, 2020, 92, 10402-10411.	6.5	6
77	Selectively facilitating the electron acceptance of methanogens by riboflavin. Renewable Energy, 2022, 195, 734-741.	8.9	5
78	XC_0531 encodes a c-type cytochrome biogenesis protein and is required for pathogenesis in Xanthomonas campestris pv. campestris. BMC Microbiology, 2017, 17, 142.	3.3	4
79	Identification of genes induced during Medicago sativa nodule development by using the cDNA-AFLP technique. Science Bulletin, 2006, 51, 2087-2094.	1.7	3
80	The Role of Microorganisms in the Geochemical Iron Cycle. Scientia Sinica Vitae, 2016, 46, 1069-1078.	0.3	3
81	Causal effect of Lipoprotein-associated phospholipase A2 activity on coronary artery disease and myocardial Infarction: A Two-Sample Mendelian Randomization study. Clinica Chimica Acta, 2021, 523, 491-496.	1.1	3
82	HAL2 overexpression induces iron acquisition in bdf1Î” cells and enhances their salt resistance. Current Genetics, 2017, 63, 229-239.	1.7	2
83	Iocasia fonsfrigidae NS-1 gen. nov., sp. nov., a Novel Deep-Sea Bacterium Possessing Diverse Carbohydrate Metabolic Pathways. Frontiers in Microbiology, 2021, 12, 725159.	3.5	2
84	Complete Genome Sequence of Methanobacterium electrotrophus Strain YSL, Isolated from Coastal Riverine Sediments. Microbiology Resource Announcements, 2021, 10, e0075221.	0.6	1
85	Miniaturized underwater polarized radiation measuring instrument. , 2019, , .		1
86	Effects of Magnetic Minerals Exposure and Microbial Responses in Surface Sediment across the Bohai Sea. Microorganisms, 2022, 10, 6.	3.6	1