Gehong Wei

List of Publications by Year in descending order

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101543 98798 5,712 122 36 67 citations h-index g-index papers 123 123 123 5945 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	T6SS secretes an LPS-binding effector to recruit OMVs for exploitative competition and horizontal gene transfer. ISME Journal, 2022, 16, 500-510.	9.8	44
2	Soil multitrophic network complexity enhances the link between biodiversity and multifunctionality in agricultural systems. Global Change Biology, 2022, 28, 140-153.	9.5	122
3	Responses of soil bacterial community structure and function to dry–wet cycles more stable in paddy than in dryland agricultural ecosystems. Global Ecology and Biogeography, 2022, 31, 362-377.	5 . 8	19
4	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. Global Change Biology, 2022, 28, 1516-1528.	9.5	37
5	Core microbiota drive functional stability of soil microbiome in reforestation ecosystems. Global Change Biology, 2022, 28, 1038-1047.	9.5	58
6	Aridity Threshold Induces Abrupt Change of Soil Abundant and Rare Bacterial Biogeography in Dryland Ecosystems. MSystems, 2022, 7, e0130921.	3.8	15
7	Linking soil fungi to bacterial community assembly in arid ecosystems. , 2022, 1, .		76
8	Halophytes increase rhizosphere microbial diversity, network complexity and function in inland saline ecosystem. Science of the Total Environment, 2022, 831, 154944.	8.0	28
9	Regulation of soil micro-foodwebs to root secondary metabolites in cultivated and wild licorice plants. Science of the Total Environment, 2022, 828, 154302.	8.0	20
10	Rare Species-Driven Diversity–Ecosystem Multifunctionality Relationships are Promoted by Stochastic Community Assembly. MBio, 2022, 13, e0044922.	4.1	36
11	Rhizobial HmuS _{pSym} as a hemeâ€binding factor is required for optimal symbiosis between <i> Mesorhizobium </i> amorphae CCNWGS0123 and <i> Robinia pseudoacacia </i> Plant, Cell and Environment, 2022, , .	5 . 7	0
12	Agricultural Management Drive Bacterial Community Assembly in Different Compartments of Soybean Soil-Plant Continuum. Frontiers in Microbiology, 2022, 13, .	3 . 5	3
13	The global biogeography of soil priming effect intensity. Global Ecology and Biogeography, 2022, 31, 1679-1687.	5.8	15
14	Local domestication of soybean leads to strong root selection and diverse filtration of root-associated bacterial communities. Plant and Soil, 2022, 480, 439-455.	3.7	5
15	Responses of soil bacteria and fungal communities to pristine and sulfidized zinc oxide nanoparticles relative to Zn ions. Journal of Hazardous Materials, 2021, 405, 124258.	12.4	28
16	A Nod factor- and type III secretion system-dependent manner for <i>Robinia pseudoacacia</i> to establish symbiosis with <i>Mesorhizobium amorphae</i> CCNWGS0123. Tree Physiology, 2021, 41, 817-835.	3.1	3
17	Stochastic processes shape the biogeographic variations in core bacterial communities between aerial and belowground compartments of common bean. Environmental Microbiology, 2021, 23, 949-964.	3.8	25
18	Multifunctionality and microbial communities in agricultural soils regulate the dynamics of a soil-borne pathogen. Plant and Soil, 2021, 461, 309-322.	3.7	16

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19	Effect of Root Diameter on the Selection and Network Interactions of Root-Associated Bacterial Microbiomes in Robinia pseudoacacia L. Microbial Ecology, 2021, 82, 391-402.	2.8	18
20	Particular microbial clades rather than total microbial diversity best predict the vertical profile variation in soil multifunctionality in desert ecosystems. Land Degradation and Development, 2021, 32, 2157-2168.	3.9	12
21	Altered Metabolic Strategies: Elaborate Mechanisms Adopted by <i>Oenococcus oeni</i> in Response to Acid Stress. Journal of Agricultural and Food Chemistry, 2021, 69, 2906-2918.	5. 2	14
22	Prevalence of mental health problems in frontline healthcare workers after the first outbreak of COVID-19 in China: a cross-sectional study. Health and Quality of Life Outcomes, 2021, 19, 103.	2.4	36
23	Longâ€ŧerm effects of straw mulching coupled with N application on soil organic carbon sequestration and soil aggregation in a winter wheat monoculture system. Agronomy Journal, 2021, 113, 2118-2131.	1.8	10
24	Shortâ€term effects of combined organic amendments on soil organic carbon sequestration in a rainâ€fed winter wheat system. Agronomy Journal, 2021, 113, 2150-2164.	1.8	9
25	Comparison of Clinical Features and Outcomes of Medically Attended COVID-19 and Influenza Patients in a Defined Population in the 2020 Respiratory Virus Season. Frontiers in Public Health, 2021, 9, 587425.	2.7	8
26	Linking Bacterial-Fungal Relationships to Microbial Diversity and Soil Nutrient Cycling. MSystems, 2021, 6, .	3.8	81
27	The Role of Gut Microbiota in Duodenal-Jejunal Bypass Surgery-Induced Improvement of Hepatic Steatosis in HFD-Fed Rats. Frontiers in Cellular and Infection Microbiology, 2021, 11, 640448.	3.9	3
28	The Composition of Root-Associated Bacteria and Fungi of Astragalus mongholicus and Their Relationship With the Bioactive Ingredients. Frontiers in Microbiology, 2021, 12, 642730.	3 . 5	11
29	Linking phylogenetic niche conservatism to soil archaeal biogeography, community assembly and species coexistence. Global Ecology and Biogeography, 2021, 30, 1488-1501.	5.8	48
30	TRAPPC13 Is a Novel Target of <i>Mesorhizobium amorphae</i> Type III Secretion System Effector NopP. Molecular Plant-Microbe Interactions, 2021, 34, 511-523.	2.6	6
31	Above- and belowground biodiversity drives soil multifunctionality along a long-term grassland restoration chronosequence. Science of the Total Environment, 2021, 772, 145010.	8.0	40
32	Rare prokaryotic sub-communities dominate the complexity of ecological networks and soil multinutrient cycling during long-term secondary succession in China's Loess Plateau. Science of the Total Environment, 2021, 774, 145737.	8.0	47
33	Soil phosphorus determines the distinct assembly strategies for abundant and rare bacterial communities during successional reforestation. Soil Ecology Letters, 2021, 3, 342-355.	4.5	19
34	Stochastic community assembly decreases soil fungal richness in arid ecosystems. Molecular Ecology, 2021, 30, 4338-4348.	3.9	45
35	Taxonomic Compositions and Co-occurrence Relationships of Protists in Bulk Soil and Rhizosphere of Soybean Fields in Different Regions of China. Frontiers in Microbiology, 2021, 12, 738129.	3.5	7
36	Rhizosphere bacterial and fungal spatial distribution and network pattern of Astragalus mongholicus in representative planting sites differ the bulk soil. Applied Soil Ecology, 2021, 168, 104114.	4.3	20

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37	Regulation of root secondary metabolites by partial rootâ€associated microbiotas under the shaping of licorice ecotypic differentiation in northwest China. Journal of Integrative Plant Biology, 2021, 63, 2093-2109.	8.5	12
38	Distinct response patterns of bacterial communities in Ag- and ZnO-rGO nanocomposite-amended silt loam soils. Science of the Total Environment, 2021, 810, 151270.	8.0	2
39	A simplified synthetic community rescues Astragalus mongholicus from root rot disease by activating plant-induced systemic resistance. Microbiome, 2021, 9, 217.	11.1	78
40	Inter-phylum negative interactions affect soil bacterial community dynamics and functions during soybean development under long-term nitrogen fertilization. Stress Biology, 2021, 1, 1.	3.1	4
41	Coupling Root Diameter With Rooting Depth to Reveal the Heterogeneous Assembly of Root-Associated Bacterial Communities in Soybean. Frontiers in Microbiology, 2021, 12, 783563.	3.5	4
42	Multiple Metabolic Phenotypes as Screening Criteria Are Correlated With the Plant Growth-Promoting Ability of Rhizobacterial Isolates. Frontiers in Microbiology, 2021, 12, 747982.	3.5	5
43	Exploring the evolutionary dynamics of <i>Rhizobium</i> plasmids through bipartite network analysis. Environmental Microbiology, 2020, 22, 934-951.	3.8	7
44	Topography affects the soil conditions and bacterial communities along a restoration gradient on Loess-Plateau. Applied Soil Ecology, 2020, 150, 103471.	4.3	26
45	Identification of Robinia pseudoacacia target proteins responsive to Mesorhizobium amphore CCNWGS0123 effector protein NopT. Journal of Experimental Botany, 2020, 71, 7347-7363.	4.8	10
46	Soil potassium is correlated with root secondary metabolites and root-associated core bacteria in licorice of different ages. Plant and Soil, 2020, 456, 61-79.	3.7	33
47	Epidemiological and Clinical Characteristics of Patients With Coronavirus Disease-2019 in Shiyan City, China. Frontiers in Cellular and Infection Microbiology, 2020, 10, 284.	3.9	21
48	Composition and divergence of coronavirus spike proteins and host ACE2 receptors predict potential intermediate hosts of SARSâ€CoVâ€2. Journal of Medical Virology, 2020, 92, 595-601.	5.0	546
49	Beneficial bacteria activate nutrients and promote wheat growth under conditions of reduced fertilizer application. BMC Microbiology, 2020, 20, 38.	3.3	122
50	Type III secretion systems impact Mesorhizobium amorphae CCNWGS0123 compatibility with Robinia pseudoacacia. Tree Physiology, 2020, 40, 284-284.	3.1	1
51	Genomic insight into the origins and evolution of symbiosis genes in Phaseolus vulgaris microsymbionts. BMC Genomics, 2020, 21, 186.	2.8	24
52	Insight into the assembly of root-associated microbiome in the medicinal plant Polygonum cuspidatum. Industrial Crops and Products, 2020, 145, 112163.	5.2	38
53	rDNA- and rRNA-derived communities present divergent assemblage patterns and functional traits throughout full-scale landfill leachate treatment process trains. Science of the Total Environment, 2019, 646, 1069-1079.	8.0	23
54	Keystone taxa regulate microbial assemblage patterns and functional traits of different microbial aggregates in simultaneous anammox and denitrification (SAD) systems. Bioresource Technology, 2019, 290, 121778.	9.6	18

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55	Type III secretion systems impact Mesorhizobium amorphae CCNWGS0123 compatibility with Robinia pseudoacacia. Tree Physiology, 2019, 39, 1533-1550.	3.1	9
56	Compositional response of Phaseolus vulgaris rhizomicrobiome to a changing soil environment is regulated by long-distance plant signaling. Plant and Soil, 2019, 442, 257-269.	3.7	4
57	The Rpf84 gene, encoding a ribosomal large subunit protein, RPL22, regulates symbiotic nodulation in Robinia pseudoacacia. Planta, 2019, 250, 1897-1910.	3.2	10
58	Assembly and Annotation of a Draft Genome of the Medicinal Plant Polygonum cuspidatum. Frontiers in Plant Science, 2019, 10, 1274.	3.6	36
59	Temporal dynamics of soil bacterial communities and multifunctionality are more sensitive to introduced plants than to microbial additions in a multicontaminated soil. Land Degradation and Development, 2019, 30, 852-865.	3.9	15
60	New Insight into the Evolution of Symbiotic Genes in Black Locust-Associated Rhizobia. Genome Biology and Evolution, 2019, 11, 1736-1750.	2.5	9
61	Complexity of bacterial communities within the rhizospheres of legumes drives phenanthrene degradation. Geoderma, 2019, 353, 1-10.	5.1	20
62	Dominant role of abundant rather than rare bacterial taxa in maintaining agro-soil microbiomes under environmental disturbances. Chemosphere, 2019, 235, 248-259.	8.2	115
63	Comprehensive expression analysis of Arabidopsis GA2-oxidase genes and their functional insights. Plant Science, 2019, 285, 1-13.	3.6	68
64	Soil microbial diversity during 30Âyears of grassland restoration on the Loess Plateau, China: Tight linkages with plant diversity. Land Degradation and Development, 2019, 30, 1172-1182.	3.9	94
65	Temporal and spatial succession and dynamics of soil fungal communities in restored grassland on the Loess Plateau in China. Land Degradation and Development, 2019, 30, 1273-1287.	3.9	39
66	HY5 Contributes to Light-Regulated Root System Architecture Under a Root-Covered Culture System. Frontiers in Plant Science, 2019, 10, 1490.	3.6	32
67	Comprehensive analysis of phenotype, microstructure and global transcriptional profiling to unravel the effect of excess copper on the symbiosis between nitrogen-fixing bacteria and Medicago lupulina. Science of the Total Environment, 2019, 656, 1346-1357.	8.0	10
68	Resilience and Assemblage of Soil Microbiome in Response to Chemical Contamination Combined with Plant Growth. Applied and Environmental Microbiology, 2019, 85, .	3.1	46
69	Identification of Phytocyanin Gene Family in Legume Plants and their Involvement in Nodulation of <i>Medicago truncatula < /i>. Plant and Cell Physiology, 2019, 60, 900-915.</i>	3.1	12
70	Plant growth and oil contamination alter the diversity and composition of bacterial communities in agricultural soils across China. Land Degradation and Development, 2018, 29, 1660-1671.	3.9	17
71	Divergent assemblage patterns of abundant and rare microbial sub-communities in response to inorganic carbon stresses in a simultaneous anammox and denitrification (SAD) system. Bioresource Technology, 2018, 257, 249-259.	9.6	28
72	Enhanced phytoremdiation of Robinia pseudoacacia in heavy metal-contaminated soils with rhizobia and the associated bacterial community structure and function. Chemosphere, 2018, 197, 729-740.	8.2	64

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73	Comparative analysis of rhizobial chromosomes and plasmids to estimate their evolutionary relationships. Plasmid, 2018, 96-97, 13-24.	1.4	19
74	Biogeography and ecological processes affecting root-associated bacterial communities in soybean fields across China. Science of the Total Environment, 2018, 627, 20-27.	8.0	53
75	Natural revegetation of a semiarid habitat alters taxonomic and functional diversity of soil microbial communities. Science of the Total Environment, 2018, 635, 598-606.	8.0	89
76	Genomic insight into the taxonomy of Rhizobium genospecies that nodulate Phaseolus vulgaris. Systematic and Applied Microbiology, 2018, 41, 300-310.	2.8	44
77	Isolation, characterization, and selection of heavy metal-resistant and plant growth-promoting endophytic bacteria from root nodules of Robinia pseudoacacia in a Pb/Zn mining area. Microbiological Research, 2018, 217, 51-59.	5.3	85
78	Distinct biogeographic patterns of rhizobia and non-rhizobial endophytes associated with soybean nodules across China. Science of the Total Environment, 2018, 643, 569-578.	8.0	39
79	Distinct large-scale biogeographic patterns of fungal communities in bulk soil and soybean rhizosphere in China. Science of the Total Environment, 2018, 644, 791-800.	8.0	103
80	A Novel Strategy for Detecting Recent Horizontal Gene Transfer and Its Application to Rhizobium Strains. Frontiers in Microbiology, 2018, 9, 973.	3.5	36
81	Soil microbiomes with distinct assemblies through vertical soil profiles drive the cycling of multiple nutrients in reforested ecosystems. Microbiome, 2018, 6, 146.	11.1	368
82	Abundant and rare microbial sub-communities in anammox granules present contrasting assemblage patterns and metabolic functions in response to inorganic carbon stresses. Bioresource Technology, 2018, 265, 299-309.	9.6	20
83	Nickel and cobalt resistance properties of Sinorhizobium meliloti isolated from Medicago lupulina growing in gold mine tailing. PeerJ, 2018, 6, e5202.	2.0	10
84	Graded Response of the Multifunctional 2-Cysteine Peroxiredoxin, CgPrx, to Increasing Levels of Hydrogen Peroxide in <i>Corynebacterium glutamicum</i> . Antioxidants and Redox Signaling, 2017, 26, 1-14.	5.4	28
85	Role of exopolysaccharide in salt stress resistance and cell motility of Mesorhizobium alhagi CCNWXJ12–2T. Applied Microbiology and Biotechnology, 2017, 101, 2967-2978.	3.6	21
86	Two cultivated legume plants reveal the enrichment process of the microbiome in the rhizocompartments. Molecular Ecology, 2017, 26, 1641-1651.	3.9	134
87	Kinetics of soil dehydrogenase in response to exogenous Cd toxicity. Journal of Hazardous Materials, 2017, 329, 299-309.	12.4	55
88	Population structure of Rhizobium etli-like strains nodulated with Phaseolus vulgaris in two ecoregions of China. Soil Biology and Biochemistry, 2017, 112, 14-23.	8.8	9
89	Distinct succession patterns of abundant and rare bacteria in temporal microcosms with pollutants. Environmental Pollution, 2017, 225, 497-505.	7.5	77
90	A Pseudomonas T6SS effector recruits PQS-containing outer membrane vesicles for iron acquisition. Nature Communications, 2017, 8, 14888.	12.8	236

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91	Temporal dynamics of microbial communities in microcosms in response to pollutants. Molecular Ecology, 2017, 26, 923-936.	3.9	69
92	Interactions of plant growth-promoting rhizobacteria and soil factors in two leguminous plants. Applied Microbiology and Biotechnology, 2017, 101, 8485-8497.	3.6	76
93	Transcriptome Response to Heavy Metals in Sinorhizobium meliloti CCNWSX0020 Reveals New Metal Resistance Determinants That Also Promote Bioremediation by Medicago lupulina in Metal-Contaminated Soil. Applied and Environmental Microbiology, 2017, 83, .	3.1	26
94	Biogeography and ecological diversity patterns of rare and abundant bacteria in oil ontaminated soils. Molecular Ecology, 2017, 26, 5305-5317.	3.9	220
95	Functional analysis of PrkA - a putative serine protein kinase from Mesorhizobium alhagi CCNWXJ12-2 - in stress resistance. BMC Microbiology, 2016, 16, 227.	3.3	12
96	Microbial succession in response to pollutants in batch-enrichment culture. Scientific Reports, 2016, 6, 21791.	3.3	87
97	Zinc Resistance Mechanisms of P1B-type ATPases in Sinorhizobium meliloti CCNWSX0020. Scientific Reports, 2016, 6, 29355.	3.3	18
98	Microbial communities in riparian soils of a settling pond for mine drainage treatment. Water Research, 2016, 96, 198-207.	11.3	69
99	Phylogenetic Diversity of Ammopiptanthus Rhizobia and Distribution of Rhizobia Associated with Ammopiptanthus mongolicus in Diverse Regions of Northwest China. Microbial Ecology, 2016, 72, 231-239.	2.8	6
100	Bacterial communities in oil contaminated soils: Biogeography and co-occurrence patterns. Soil Biology and Biochemistry, 2016, 98, 64-73.	8.8	366
101	Evolution and taxonomy of native mesorhizobia nodulating medicinal Glycyrrhiza species in China. Systematic and Applied Microbiology, 2016, 39, 260-265.	2.8	10
102	Functional characterization of a csoR-cueA divergon in Bradyrhizobium liaoningense CCNWSX0360, involved in copper, zinc and cadmium cotolerance. Scientific Reports, 2016, 6, 35155.	3.3	12
103	A translationally controlled tumor protein gene Rpf41 is required for the nodulation of Robinia pseudoacacia. Plant Molecular Biology, 2016, 90, 389-402.	3.9	15
104	The dual transcriptional regulator <scp>RovM</scp> regulates the expression of <scp>AR3</scp> â€and <scp>T6SS4</scp> â€dependent acid survival systems in response to nutritional status in <scp><i>Y</i></scp> <i>ersinia pseudotuberculosisEnvironmental Microbiology, 2015, 17, 4631-4645.</i>	3.8	24
105	Molecular characterization of a eukaryotic-like phenol hydroxylase from <i>Corynebacterium glutamicum < li>. Journal of General and Applied Microbiology, 2015, 61, 99-107.</i>	0.7	6
106	Type VI Secretion System Transports Zn2+ to Combat Multiple Stresses and Host Immunity. PLoS Pathogens, 2015, 11, e1005020.	4.7	169
107	Copper Tolerance Mechanisms of <i>Mesorhizobium amorphae</i> and Its Role in Aiding Phytostabilization by <i>Robinia pseudoacacia</i> in Copper Contaminated Soil. Environmental Science & Echnology, 2015, 49, 2328-2340.	10.0	56
108	Effects of cowpea (Vigna unguiculata) root mucilage on microbial community response and capacity for phenanthrene remediation. Journal of Environmental Sciences, 2015, 33, 45-59.	6.1	12

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109	Effects of 1-aminocyclopropane-1-carboxylate (ACC) deaminase-overproducing Sinorhizobium meliloti on plant growth and copper tolerance of Medicago lupulina. Plant and Soil, 2015, 391, 383-398.	3.7	66
110	Genomic analyses of metal resistance genes in three plant growth promoting bacteria of legume plants in Northwest mine tailings, China. Journal of Environmental Sciences, 2015, 27, 179-187.	6.1	37
111	Ohr Protects Corynebacterium glutamicum against Organic Hydroperoxide Induced Oxidative Stress. PLoS ONE, 2015, 10, e0131634.	2.5	28
112	Global transcriptome analysis of Mesorhizobium alhagi CCNWXJ12-2 under salt stress. BMC Microbiology, 2014, 14, 1.	3.3	25
113	Sphingobacterium gobiense sp. nov., isolated from soil of the Gobi Desert. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 3931-3935.	1.7	18
114	Removal of Zinc from Aqueous Solution by Metal Resistant Symbiotic Bacterium <i>Mesorhizobium amorphae</i> . Separation Science and Technology, 2014, 49, 376-387.	2.5	13
115	Diversity of endophytic bacteria associated with nodules of two indigenous legumes at different altitudes of the Qilian Mountains in China. Systematic and Applied Microbiology, 2014, 37, 457-465.	2.8	42
116	Distribution and diversity of rhizobia associated with wild soybean (Glycine soja Sieb. & Samp; Zucc.) in Northwest China. Systematic and Applied Microbiology, 2014, 37, 449-456.	2.8	40
117	A new computational strategy for predicting essential genes. BMC Genomics, 2013, 14, 910.	2.8	34
118	Flavitalea gansuensis sp. nov., isolated from soil from an arid area, and emended descriptions of the genus Flavitalea and Flavitalea populi. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 490-495.	1.7	21
119	Draft Genome Sequence of Plant Growth-Promoting Rhizobium Mesorhizobium amorphae, Isolated from Zinc-Lead Mine Tailings. Journal of Bacteriology, 2012, 194, 736-737.	2.2	36
120	Biosorption and Bioaccumulation of Cu2+ from Aqueous Solution Using Living M. amorphae Isolated from Mine Tailings. Mine Water and the Environment, 2012, 31, 312-319.	2.0	5
121	Genome Sequence and Mutational Analysis of Plant-Growth-Promoting Bacterium Agrobacterium tumefaciens CCNWGS0286 Isolated from a Zinc-Lead Mine Tailing. Applied and Environmental Microbiology, 2012, 78, 5384-5394.	3.1	64
122	A new clade of Mesorhizobium nodulating Alhagi sparsifolia. Systematic and Applied Microbiology, 2009, 32, 8-16.	2.8	16