Zimin Wei

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6946627/publications.pdf

Version: 2024-02-01

119 papers	6,858 citations	47409 49 h-index	78623 77 g-index
119 all docs	119 docs citations	119 times ranked	3383 citing authors

#	Article	IF	Citations
1	Lignocellulose biomass bioconversion during composting: Mechanism of action of lignocellulase, pretreatment methods and future perspectives. Chemosphere, 2022, 286, 131635.	4.2	82
2	Effect of Fenton pretreatment and bacterial inoculation on cellulose-degrading genes and fungal communities during rice straw composting. Science of the Total Environment, 2022, 806, 151376.	3.9	26
3	Effects of heavy metals stress on chicken manures composting via the perspective of microbial community feedback. Environmental Pollution, 2022, 294, 118624.	3.7	41
4	Microhabitat drive microbial anabolism to promote carbon sequestration during composting. Bioresource Technology, 2022, 346, 126577.	4.8	51
5	Identifying the role of fired clay minerals on reducing of nitrogen loss and immobilization of organic nitrogen during chicken manure composting. Bioresource Technology, 2022, 349, 126839.	4.8	11
6	Photodegradation, bacterial metabolism, and photosynthesis drive the dissolved organic matter cycle in the Heilongjiang River. Chemosphere, 2022, 295, 133923.	4.2	15
7	The active role of metabolic regulators in nitrogen loss reduction and organic nitrogen transformation during different materials composting. Journal of Cleaner Production, 2022, 345, 131134.	4.6	8
8	Characterization of mercury binding to different molecular weight fractions of dissolved organic matter. Journal of Hazardous Materials, 2022, 431, 128593.	6.5	17
9	Resource utilization of mink manure: Functional microbial inoculation to elevate the bioavailability of organic nitrogen during composting. Bioresource Technology, 2022, 353, 127149.	4.8	11
10	Estimating the synergistic formation of humus by abiotic and biotic pathways during composting. Journal of Cleaner Production, 2022, 363, 132470.	4.6	19
11	Microbial inoculants reshape structural distribution of complex components of humic acid based on spectroscopy during straw waste composting. Bioresource Technology, 2022, 359, 127472.	4.8	9
12	The important role of tricarboxylic acid cycle metabolism pathways and core bacterial communities in carbon sequestration during chicken manure composting. Waste Management, 2022, 150, 20-29.	3.7	11
13	Oxytetracycline stress reconstruct the core microbial community related to nitrogen transformation during composting. Bioresource Technology, 2021, 319, 124142.	4.8	59
14	The â€œqualityâ€•and â€œquantityâ€•of microbial species drive the degradation of cellulose during composting. Bioresource Technology, 2021, 320, 124425.	4.8	33
15	Microbial remediation of heavy metals from sludge of wastewater treatment plants. , 2021, , 559-569.		0
16	Insight into the mechanisms of insoluble phosphate transformation driven by the interactions of compound microbes during composting. Environmental Science and Pollution Research, 2021, 28, 32844-32855.	2.7	13
17	The action difference of metabolic regulators on carbon conversion during different agricultural organic wastes composting. Bioresource Technology, 2021, 329, 124902.	4.8	20
18	The key bacteria as the â€œActivatorâ€•promotes the rapid degradation of organic compounds during the start-up of low-temperature compost. Bioresource Technology, 2021, 330, 124950.	4.8	17

#	Article	IF	Citations
19	Heavy metals passivation driven by the interaction of organic fractions and functional bacteria during biochar/montmorillonite-amended composting. Bioresource Technology, 2021, 329, 124923.	4.8	31
20	Î´-MnO2 changed the structure of humic-like acid during co-composting of chicken manure and rice straw. Waste Management, 2021, 128, 16-24.	3.7	25
21	Factoring distinct materials and nitrogen-related microbes into assessments of nitrogen pollution risks during composting. Bioresource Technology, 2021, 329, 124896.	4.8	12
22	Manganese dioxide driven the carbon and nitrogen transformation by activating the complementary effects of core bacteria in composting. Bioresource Technology, 2021, 330, 124960.	4.8	46
23	Evaluating the phytotoxicity of dissolved organic matter derived from black carbon. Science of the Total Environment, 2021, 778, 146231.	3.9	10
24	Two types nitrogen source supply adjusted interaction patterns of bacterial community to affect humifaction process of rice straw composting. Bioresource Technology, 2021, 332, 125129.	4.8	47
25	Continuous insulation strategy of organic waste composting in cold region: Based on cold-adapted consortium. Bioresource Technology, 2021, 335, 125257.	4.8	5
26	Core bacterial community driven the conversion of fulvic acid components during composting with adding manganese dioxide. Bioresource Technology, 2021, 337, 125495.	4.8	15
27	Role of Bacillus inoculation in rice straw composting and bacterial community stability after inoculation: Unite resistance or individual collapse. Bioresource Technology, 2021, 337, 125464.	4.8	44
28	Identifying driving factors of humic acid formation during rice straw composting based on Fenton pretreatment with bacterial inoculation. Bioresource Technology, 2021, 337, 125403.	4.8	18
29	Key factors driving the fate of antibiotic resistance genes and controlling strategies during aerobic composting of animal manure: A review. Science of the Total Environment, 2021, 791, 148372.	3.9	73
30	Identifying the role of exogenous amino acids in catalyzing lignocellulosic biomass into humus during straw composting. Bioresource Technology, 2021, 340, 125639.	4.8	28
31	The remarkable role of shikimic acid pathway in humic acid formation during biochar and montmorillonite addition composting. Bioresource Technology, 2021, 342, 125985.	4.8	4
32	Nitrate shifted microenvironment: Driven aromatic-ring cleavage microbes and aromatic compounds precursor biodegradation during sludge composting. Bioresource Technology, 2021, 342, 125907.	4.8	9
33	Insight into the effects of regulating denitrification on composting: Strategies to simultaneously reduce environmental pollution risk and promote aromatic humic substance formation. Bioresource Technology, 2021, 342, 125901.	4.8	10
34	Characteristics of humic substance in lake sediments: The case of lakes in northeastern China. Journal of Hydrology, 2021, 603, 127079.	2.3	7
35	Role of NH3 recycling on nitrogen fractions during sludge composting. Bioresource Technology, 2020, 295, 122175.	4.8	38
36	New insights into the variation of dissolved organic matter components in different latitudinal lakes of northeast China. Limnology and Oceanography, 2020, 65, 471-481.	1.6	23

#	Article	IF	Citations
37	Parallel faction analysis combined with two-dimensional correlation spectroscopy reveal the characteristics of mercury-composting-derived dissolved organic matter interactions. Journal of Hazardous Materials, 2020, 384, 121395.	6.5	50
38	Roles of different humin and heavy-metal resistant bacteria from composting on heavy metal removal. Bioresource Technology, 2020, 296, 122375.	4.8	115
39	Effect of manganese dioxide on the formation of humin during different agricultural organic wastes compostable environments: It is meaningful carbon sequestration. Bioresource Technology, 2020, 299, 122596.	4.8	50
40	Core microorganisms promote the transformation of DOM fractions with different molecular weights to improve the stability during composting. Bioresource Technology, 2020, 299, 122575.	4.8	67
41	Influence of malonic acid and manganese dioxide on humic substance formation and inhibition of CO2 release during composting. Bioresource Technology, 2020, 318, 124075.	4.8	20
42	Speciation, toxicity mechanism and remediation ways of heavy metals during composting: A novel theoretical microbial remediation method is proposed. Journal of Environmental Management, 2020, 272, 111109.	3.8	66
43	Reconstruction of core microbes based on producing lignocellulolytic enzymes causing by bacterial inoculation during rice straw composting. Bioresource Technology, 2020, 315, 123849.	4.8	31
44	Denitrification during composting: Biochemistry, implication and perspective. International Biodeterioration and Biodegradation, 2020, 153, 105043.	1.9	39
45	Selective pressures of heavy metals on microbial community determine microbial functional roles during composting: Sensitive, resistant and actor. Journal of Hazardous Materials, 2020, 398, 122858.	6.5	86
46	Revealing the Inner Dynamics of Fulvic Acid from Different Compost-Amended Soils through Microbial and Chemical Analyses. Journal of Agricultural and Food Chemistry, 2020, 68, 3722-3728.	2.4	22
47	Identifying the action ways of function materials in catalyzing organic waste transformation into humus during chicken manure composting. Bioresource Technology, 2020, 303, 122927.	4.8	55
48	Elucidating the negative effect of denitrification on aromatic humic substance formation during sludge aerobic fermentation. Journal of Hazardous Materials, 2020, 388, 122086.	6.5	61
49	Effect of Fenton pretreatment combined with bacteria inoculation on humic substances formation during lignocellulosic biomass composting derived from rice straw. Bioresource Technology, 2020, 303, 122849.	4.8	80
50	Humus formation driven by ammonia-oxidizing bacteria during mixed materials composting. Bioresource Technology, 2020, 311, 123500.	4.8	42
51	Effects of exogenous protein-like precursors on humification process during lignocellulose-like biomass composting: Amino acids as the key linker to promote humification process. Bioresource Technology, 2019, 291, 121882.	4.8	129
52	Roles of adding biochar and montmorillonite alone on reducing the bioavailability of heavy metals during chicken manure composting. Bioresource Technology, 2019, 294, 122199.	4.8	81
53	Biochar combined with montmorillonite amendments increase bioavailable organic nitrogen and reduce nitrogen loss during composting. Bioresource Technology, 2019, 294, 122224.	4.8	62
54	Improved lignocellulose degradation efficiency based on Fenton pretreatment during rice straw composting. Bioresource Technology, 2019, 294, 122132.	4.8	91

#	Article	IF	Citations
55	Effect of tricarboxylic acid cycle regulators on the formation of humic substance during composting: The performance in labile and refractory materials. Bioresource Technology, 2019, 292, 121949.	4.8	39
56	A novel method for removing heavy metals from composting system: The combination of functional bacteria and adsorbent materials. Bioresource Technology, 2019, 293, 122095.	4.8	55
57	Recognition of the neutral sugars conversion induced by bacterial community during lignocellulose wastes composting. Bioresource Technology, 2019, 294, 122153.	4.8	33
58	Driving effects of minerals on humic acid formation during chicken manure composting: Emphasis on the carrier role of bacterial community. Bioresource Technology, 2019, 294, 122239.	4.8	47
59	Effect of semi-continuous replacements of compost materials after inoculation on the performance of heat preservation of low temperature composting. Bioresource Technology, 2019, 279, 50-56.	4.8	28
60	Role of Humic Acid Chemical Structure Derived from Different Biomass Feedstocks on Fe(III) Bioreduction Activity: Implication for Sustainable Use of Bioresources. Catalysts, 2019, 9, 450.	1.6	6
61	Assessment contributions of physicochemical properties and bacterial community to mitigate the bioavailability of heavy metals during composting based on structural equation models. Bioresource Technology, 2019, 289, 121657.	4.8	93
62	Bioavailability Evaluation of Dissolved Organic Matter Derived from Compost-Amended Soils. Journal of Agricultural and Food Chemistry, 2019, 67, 5940-5948.	2.4	41
63	Assessment of Multiorigin Humin Components Evolution and Influencing Factors During Composting. Journal of Agricultural and Food Chemistry, 2019, 67, 4184-4192.	2.4	41
64	Roles of bacterial community in the transformation of organic nitrogen toward enhanced bioavailability during composting with different wastes. Bioresource Technology, 2019, 285, 121326.	4.8	106
65	Host bacterial community of MGEs determines the risk of horizontal gene transfer during composting of different animal manures. Environmental Pollution, 2019, 250, 166-174.	3.7	101
66	Effect of MnO2 on biotic and abiotic pathways of humic-like substance formation during composting of different raw materials. Waste Management, 2019, 87, 326-334.	3.7	32
67	Diversity in the Mechanisms of Humin Formation during Composting with Different Materials. Environmental Science & Technology, 2019, 53, 3653-3662.	4.6	196
68	Improved lignocellulose-degrading performance during straw composting from diverse sources with actinomycetes inoculation by regulating the key enzyme activities. Bioresource Technology, 2019, 271, 66-74.	4.8	259
69	Protein and carbohydrate drive microbial responses in diverse ways during different animal manures composting. Bioresource Technology, 2019, 271, 482-486.	4.8	63
70	Effects of aeration rates on the structural changes in humic substance during co-composting of digestates and chicken manure. Science of the Total Environment, 2019, 658, 510-520.	3.9	55
71	Insight into transformation of dissolved organic matter in the Heilongjiang River. Environmental Science and Pollution Research, 2019, 26, 3340-3349.	2.7	9
72	Heavy metal contamination in soils of greenhouse vegetable production systems in a cold region of China. International Journal of Agricultural and Biological Engineering, 2019, 12, 98-102.	0.3	7

#	Article	IF	Citations
73	Effects of floodgates operation on nitrogen transformation in a lake based on structural equation modeling analysis. Science of the Total Environment, 2018, 631-632, 1311-1320.	3.9	19
74	Effect of tricarboxylic acid cycle regulator on carbon retention and organic component transformation during food waste composting. Bioresource Technology, 2018, 256, 128-136.	4.8	97
75	Biostimulation of nutrient additions on indigenous microbial community at the stage of nitrogen limitations during composting. Waste Management, 2018, 74, 194-202.	3.7	16
76	Transformation of organic nitrogen fractions with different molecular weights during different organic wastes composting. Bioresource Technology, 2018, 262, 221-228.	4.8	69
77	Response of humic acid formation to elevated nitrate during chicken manure composting. Bioresource Technology, 2018, 258, 390-394.	4.8	44
78	Effect of organic acids production and bacterial community on the possible mechanism of phosphorus solubilization during composting with enriched phosphate-solubilizing bacteria inoculation. Bioresource Technology, 2018, 247, 190-199.	4.8	249
79	Assessing the environmental impact of phenanthrene in different types of land use based on the binding characteristics with dissolved organic matter. Ecotoxicology and Environmental Safety, 2018, 147, 394-400.	2.9	14
80	Characterization of atrazine binding to dissolved organic matter of soil under different types of land use. Ecotoxicology and Environmental Safety, 2018, 147, 1065-1072.	2.9	40
81	Organophosphorus-degrading bacterial community during composting from different sources and their roles in phosphorus transformation. Bioresource Technology, 2018, 264, 277-284.	4.8	31
82	How does manganese dioxide affect humus formation during bio-composting of chicken manure and corn straw?. Bioresource Technology, 2018, 269, 169-178.	4.8	57
83	Effect of the addition of exogenous precursors on humic substance formation during composting. Waste Management, 2018, 79, 462-471.	3.7	82
84	Reducing nitrogen loss and phytotoxicity during beer vinasse composting with biochar addition. Waste Management, 2017, 61, 150-156.	3.7	116
85	A novel method for contributing to composting start-up at low temperature by inoculating cold-adapted microbial consortium. Bioresource Technology, 2017, 238, 39-47.	4.8	70
86	Impact of phosphate-solubilizing bacteria inoculation methods on phosphorus transformation and long-term utilization in composting. Bioresource Technology, 2017, 241, 134-141.	4.8	63
87	Effect of thermo-tolerant actinomycetes inoculation on cellulose degradation and the formation of humic substances during composting. Waste Management, 2017, 68, 64-73.	3.7	127
88	Effect of precursors combined with bacteria communities on the formation of humic substances during different materials composting. Bioresource Technology, 2017, 226, 191-199.	4.8	249
89	Assessment of phytotoxicity grade during composting based on EEM/PARAFAC combined with projection pursuit regression. Journal of Hazardous Materials, 2017, 326, 10-17.	6.5	116
90	Assessing the use of composts from multiple sources based on the characteristics of carbon mineralization in soil. Waste Management, 2017, 70, 30-36.	3.7	23

#	Article	IF	Citations
91	Identifying the key factors that affect the formation of humic substance during different materials composting. Bioresource Technology, 2017, 244, 1193-1196.	4.8	211
92	Effect of cold-adapted microbial agent inoculation on enzyme activities during composting start-up at low temperature. Bioresource Technology, 2017, 244, 635-640.	4.8	50
93	Roles of composts in soil based on the assessment of humification degree of fulvic acids. Ecological Indicators, 2017, 72, 473-480.	2.6	58
94	A regulating method for the distribution of phosphorus fractions based on environmental parameters related to the key phosphate-solubilizing bacteria during composting. Bioresource Technology, 2016, 211, 610-617.	4.8	67
95	Fluorescence characteristics of molecular weight fractions of dissolved organic matter derived from composts. International Biodeterioration and Biodegradation, 2016, 113, 187-194.	1.9	58
96	Effect of actinobacteria agent inoculation methods on cellulose degradation during composting based on redundancy analysis. Bioresource Technology, 2016, 219, 196-203.	4.8	192
97	Effect of inoculation with multiple composite microorganisms on characteristics of humic fractions and bacterial community structure during biogas residue and livestock manure coâ€composting. Journal of Chemical Technology and Biotechnology, 2016, 91, 155-164.	1.6	23
98	A regulating method for reducing nitrogen loss based on enriched ammonia-oxidizing bacteria during composting. Bioresource Technology, 2016, 221, 276-283.	4.8	94
99	An optimized regulating method for composting phosphorus fractions transformation based on biochar addition and phosphate-solubilizing bacteria inoculation. Bioresource Technology, 2016, 221, 139-146.	4.8	72
100	Treatment of municipal solid waste using an MBMB process coupled with biofiltration: control of odorous substance emissions. Environmental Earth Sciences, 2016, 75, 1.	1.3	1
101	Seasonal population changes in the ammonia-oxidizing bacteria community structure of Songhua Lake, China. Chemical Engineering Research and Design, 2016, 104, 523-530.	2.7	3
102	Bioavailability of riverine dissolved organic carbon and nitrogen in the Heilongjiang watershed of northeastern China. Environmental Monitoring and Assessment, 2016, 188, 113.	1.3	25
103	Characterization of chromophoric dissolved organic matter and relationships among PARAFAC components and water quality parameters in Heilongjiang, China. Environmental Science and Pollution Research, 2016, 23, 10058-10071.	2.7	21
104	Snowmelt-driven changes in dissolved organic matter and bacterioplankton communities in the Heilongjiang watershed of China. Science of the Total Environment, 2016, 556, 242-251.	3.9	19
105	Metaproteomics reveals major microbial players and their biodegradation functions in a largeâ€scale aerobic composting plant. Microbial Biotechnology, 2015, 8, 950-960.	2.0	46
106	Characterisation of dissolved organic matter extracted from the bio-oxidative phase of co-composting of biogas residues and livestock manure using spectroscopic techniques. International Biodeterioration and Biodegradation, 2015, 103, 38-50.	1.9	72
107	Changes in phosphorus fractions during organic wastes composting from different sources. Bioresource Technology, 2015, 189, 349-356.	4.8	117
108	Spatial heterogeneity in a deep artificial lake plankton community revealed by PCR-DGGE fingerprinting. Chinese Journal of Oceanology and Limnology, 2015, 33, 624-635.	0.7	12

#	Article	IF	Citations
109	Environmental factors influencing the distribution of ammonifying and denitrifying bacteria and water qualities in 10 lakes and reservoirs of the N ortheast, C hina. Microbial Biotechnology, 2015, 8, 541-548.	2.0	11
110	Relationship between bacterial diversity and environmental parameters during composting of different raw materials. Bioresource Technology, 2015, 198, 395-402.	4.8	233
111	Comparison of bacterial community structure and dynamics during the thermophilic composting of different types of solid wastes: anaerobic digestion residue, pig manure and chicken manure. Microbial Biotechnology, 2014, 7, 424-433.	2.0	71
112	Effect of short-time hydrothermal pretreatment of kitchen waste on biohydrogen production: Fluorescence spectroscopy coupled with parallel factor analysis. Bioresource Technology, 2014, 172, 382-390.	4.8	39
113	Assessment of humification degree of dissolved organic matter from different composts using fluorescence spectroscopy technology. Chemosphere, 2014, 95, 261-267.	4.2	111
114	Fractions and biodegradability of dissolved organic matter derived from different composts. Bioresource Technology, 2014, 161, 179-185.	4.8	50
115	Interaction of phenanthrene with dissolved organic matter and its fractions from leachate of different landfill ages. Environmental Earth Sciences, 2012, 67, 1861-1867.	1.3	7
116	Spectroscopic characterization of water extractable organic matter during composting of municipal solid waste. Chemosphere, 2011, 82, 541-548.	4.2	243
117	Spectroscopic Properties of Dissolved Fulvic Acids. Soil Science, 2010, 175, 240-245.	0.9	17
118	Effect of water-extraction on characteristics of melting and solidification of fly ash from municipal solid waste incinerator. Journal of Hazardous Materials, 2009, 161, 871-877.	6.5	60
119	Effect of inoculating microbes in municipal solid waste composting on characteristics of humic acid. Chemosphere, 2007, 68, 368-374.	4.2	147