

Guang-Hui Yu

List of Publications by Year in descending order

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110
papers

5,995
citations

61984

43
h-index

76900

74
g-index

118
all docs

118
docs citations

118
times ranked

5364
citing authors

#	ARTICLE	IF	CITATIONS
1	Weathered Microplastics Induce Silver Nanoparticle Formation. Environmental Science and Technology Letters, 2022, 9, 179-185.	8.7	14
2	Towards a mechanistic understanding of microbial and nonmicrobial mediated topsoil organic carbon sequestration efficiency in a rice-wheat cropping system. Applied Soil Ecology, 2022, 170, 104259.	4.3	8
3	Vertical variations of soil carbon under different land uses in a karst critical zone observatory (CZO), SW China. Geoderma, 2022, 412, 115741.	5.1	17
4	Visualizing Mineral-Associated Organic Matters in Long-Term Fertilization Treated Soils by NanoSIMS and SR-FTIR. Frontiers in Soil Science, 2022, 2, .	2.2	2
5	Fungalâ€“Mineral Interactions Modulating Intrinsic Peroxidase-like Activity of Iron Nanoparticles: Implications for the Biogeochemical Cycles of Nutrient Elements and Attenuation of Contaminants. Environmental Science & Technology, 2022, 56, 672-680.	10.0	23
6	Root exudate chemistry affects soil carbon mobilization via microbial community reassembly. Fundamental Research, 2022, 2, 697-707.	3.3	41
7	Molecular Trade-Offs between Lattice Oxygen and Oxygen Vacancy Drive Organic Pollutant Degradation in Fungal Biomined Exoskeletons. Environmental Science & Technology, 2022, 56, 8132-8141.	10.0	7
8	Rejuvenation of iron oxides enhances carbon sequestration by the â€˜iron gateâ€™™ and â€˜enzyme latchâ€™™ mechanisms in a rice-wheat cropping system. Science of the Total Environment, 2022, 839, 156209.	8.0	5
9	Microbial community mediates hydroxyl radical production in soil slurries by iron redox transformation. Water Research, 2022, 220, 118689.	11.3	16
10	Intrinsic enzymeâ€“like activity of magnetite particles is enhanced by cultivation with <i>Trichoderma guizhouense</i>. Environmental Microbiology, 2021, 23, 893-907.	3.8	20
11	Investigation of carbon dynamics in rhizosphere by synchrotron radiation-based Fourier transform infrared combined with two dimensional correlation spectroscopy. Science of the Total Environment, 2021, 762, 143078.	8.0	13
12	Fenton chemistry and reactive oxygen species in soil: Abiotic mechanisms of biotic processes, controls and consequences for carbon and nutrient cycling. Earth-Science Reviews, 2021, 214, 103525.	9.1	99
13	çŸŽž%©ç²³ç±³é…¶ä»‹¼çš„å…¶çŽŒ”Ÿç%©æ°çfâCE–âĴâ¾çŽ–âšçŽ–â¢fæ•^âº”. SCIENTIA SINICA Terrae, 2021, 5.3, 1203-1213.	5.3	1203-1213
14	Effects of long-term fertilization on calcium-associated soil organic carbon: Implications for C sequestration in agricultural soils. Science of the Total Environment, 2021, 772, 145037.	8.0	30
15	Nanozyme-mediated elemental biogeochemical cycling and environmental effects. Science China Earth Sciences, 2021, 64, 1015-1025.	5.2	15
16	Coupling thermophilic composting and vermicomposting processes to remove Cr from biogas residues and produce high value-added biofertilizers. Bioresource Technology, 2021, 329, 124869.	9.6	18
17	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. Soil Biology and Biochemistry, 2021, 162, 108417.	8.8	31
18	Organic amendments stimulate co-precipitation of ferrihydrite and dissolved organic matter in soils. Geoderma, 2021, 402, 115352.	5.1	5

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19	Molybdenum Bioavailability and Asymbiotic Nitrogen Fixation in Soils are Raised by Iron (Oxyhydr)oxide-Mediated Free Radical Production. <i>Environmental Science & Technology</i> , 2021, 55, 14979-14989.	10.0	20
20	Highly reactive nanomineral assembly in soil colloids: Implications for paddy soil carbon storage. <i>Science of the Total Environment</i> , 2020, 703, 134728.	8.0	19
21	Influence of biodiversity and iron availability on soil peroxide: Implications for soil carbon stabilization and storage. <i>Land Degradation and Development</i> , 2020, 31, 463-472.	3.9	15
22	Preservation of organic carbon promoted by iron redox transformation in a rice-wheat cropping system. <i>Applied Soil Ecology</i> , 2020, 147, 103425.	4.3	10
23	Rusty sink of rhizodeposits and associated keystone microbiomes. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107840.	8.8	73
24	Silicon Effects on Biomass Carbon and Phytolith-Occluded Carbon in Grasslands Under High-Salinity Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 657.	3.6	15
25	An iron-dependent burst of hydroxyl radicals stimulates straw decomposition and CO ₂ emission from soil hotspots: Consequences of Fenton or Fenton-like reactions. <i>Geoderma</i> , 2020, 375, 114512.	5.1	32
26	Mechanisms of potentially toxic metal removal from biogas residues via vermicomposting revealed by synchrotron radiation-based spectromicroscopies. <i>Waste Management</i> , 2020, 113, 80-87.	7.4	14
27	Biological removal of cadmium from biogas residues during vermicomposting, and the effect of earthworm hydrolysates on <i>Trichoderma guizhouense</i> sporulation. <i>Bioresource Technology</i> , 2020, 312, 123635.	9.6	19
28	Fungal Nanophase Particles Catalyze Iron Transformation for Oxidative Stress Removal and Iron Acquisition. <i>Current Biology</i> , 2020, 30, 2943-2950.e4.	3.9	32
29	Unexpected bulk density and microstructures response to long-term pig manure application in a Ferralic Cambisol Soil: Implications for rebuilding a healthy soil. <i>Soil and Tillage Research</i> , 2020, 203, 104668.	5.6	19
30	Fungus-initiated catalytic reactions at hyphal-mineral interfaces drive iron redox cycling and biomineralization. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 192-203.	3.9	40
31	Ten-year long-term organic fertilization enhances carbon sequestration and calcium-mediated stabilization of aggregate-associated organic carbon in a reclaimed Cambisol. <i>Geoderma</i> , 2019, 355, 113880.	5.1	78
32	A new strategy for assessing the binding microenvironments in intact soil microaggregates. <i>Soil and Tillage Research</i> , 2019, 189, 123-130.	5.6	13
33	DOM as an indicator of occurrence and risks of antibiotics in a city-river-reservoir system with multiple pollution sources. <i>Science of the Total Environment</i> , 2019, 686, 276-289.	8.0	36
34	Iron minerals inhibit the growth of <i>Pseudomonas brassicacearum</i> J12 via a free-radical mechanism: implications for soil carbon storage. <i>Biogeosciences</i> , 2019, 16, 1433-1445.	3.3	22
35	Toward understanding the binding of Zn in soils by two-dimensional correlation spectroscopy and synchrotron-radiation-based spectromicroscopies. <i>Geoderma</i> , 2019, 337, 238-245.	5.1	27
36	Impact of agricultural fertilization practices on organo-mineral associations in four long-term field experiments: Implications for soil C sequestration. <i>Science of the Total Environment</i> , 2019, 651, 591-600.	8.0	56

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37	Redox interface-associated organo-mineral interactions: A mechanism for C sequestration under a rice-wheat cropping system. <i>Soil Biology and Biochemistry</i> , 2018, 120, 12-23.	8.8	55
38	Root Exudates and Microbial Communities Drive Mineral Dissolution and the Formation of Nano-size Minerals in Soils: Implications for Soil Carbon Storage. <i>Soil Biology</i> , 2018, , 143-166.	0.8	5
39	Contrasting effects of inorganic and organic fertilisation regimes on shifts in Fe redox bacterial communities in red soils. <i>Soil Biology and Biochemistry</i> , 2018, 117, 56-67.	8.8	48
40	Strategy for Microscale Characterization of Soil Mineral-Organic Associations by Synchrotron-Radiation-Based FTIR Technology. <i>Soil Science Society of America Journal</i> , 2018, 82, 1583-1591.	2.2	15
41	Total and available metal concentrations in soils from six long-term fertilization sites across China. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31666-31678.	5.3	30
42	In situ measurement of perfluoroalkyl substances in aquatic systems using diffusive gradients in thin-films technique. <i>Water Research</i> , 2018, 144, 162-171.	11.3	59
43	A review on halloysite-based adsorbents to remove pollutants in water and wastewater. <i>Journal of Molecular Liquids</i> , 2018, 269, 855-868.	4.9	150
44	Using new hetero-spectral two-dimensional correlation analyses and synchrotron-radiation-based spectromicroscopy to characterize binding of Cu to soil dissolved organic matter. <i>Environmental Pollution</i> , 2017, 223, 457-465.	7.5	46
45	Mineral Availability as a Key Regulator of Soil Carbon Storage. <i>Environmental Science & Technology</i> , 2017, 51, 4960-4969.	10.0	167
46	Heavy metal concentrations and arsenic speciation in animal manure composts in China. <i>Waste Management</i> , 2017, 64, 333-339.	7.4	158
47	Exploring the interactions and binding sites between Cd and functional groups in soil using two-dimensional correlation spectroscopy and synchrotron radiation based spectromicroscopies. <i>Journal of Hazardous Materials</i> , 2017, 326, 18-25.	12.4	66
48	Carbon Sequestration Potential Promoted by Oxalate Extractable Iron Oxides through Organic Fertilization. <i>Soil Science Society of America Journal</i> , 2017, 81, 1359-1370.	2.2	21
49	Compost Process and Organic Fertilizers Application in China. , 2016, , .		4
50	Hydrolytic Amino Acids Employed as a Novel Organic Nitrogen Source for the Preparation of PGPF-Containing Bio-Organic Fertilizer for Plant Growth Promotion and Characterization of Substance Transformation during BOF Production. <i>PLoS ONE</i> , 2016, 11, e0149447.	2.5	14
51	New strategies for submicron characterization the carbon binding of reactive minerals in long-term contrasting fertilized soils: implications for soil carbon storage. <i>Biogeosciences</i> , 2016, 13, 3607-3618.	3.3	38
52	Soil ionomic and enzymatic responses and correlations to fertilizations amended with and without organic fertilizer in long-term experiments. <i>Scientific Reports</i> , 2016, 6, 24559.	3.3	13
53	Fungal biomineralization of montmorillonite and goethite to short-range-ordered minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 17-31.	3.9	28
54	Spectroscopic Evidence of the Improvement of Reactive Iron Mineral Content in Red Soil by Long-Term Application of Swine Manure. <i>PLoS ONE</i> , 2016, 11, e0146364.	2.5	19

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55	In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale. <i>Chemosphere</i> , 2015, 138, 225-232.	8.2	45
56	Improving manure nutrient management towards sustainable agricultural intensification in China. <i>Agriculture, Ecosystems and Environment</i> , 2015, 209, 34-46.	5.3	244
57	In situ observation of the growth of biofouling layer in osmotic membrane bioreactors by multiple fluorescence labeling and confocal laser scanning microscopy. <i>Water Research</i> , 2015, 75, 188-200.	11.3	126
58	Rapid and Accurate Evaluation of the Quality of Commercial Organic Fertilizers Using Near Infrared Spectroscopy. <i>PLoS ONE</i> , 2014, 9, e88279.	2.5	15
59	Long-Term Fertilization Modifies the Structures of Soil Fulvic Acids and Their Binding Capability with Al. <i>PLoS ONE</i> , 2014, 9, e105567.	2.5	7
60	Further Insights into Metal-DOM Interaction: Consideration of Both Fluorescent and Non-Fluorescent Substances. <i>PLoS ONE</i> , 2014, 9, e112272.	2.5	12
61	Towards understanding the role of extracellular polymeric substances in cyanobacterial <i>Microcystis</i> aggregation and mucilaginous bloom formation. <i>Chemosphere</i> , 2014, 117, 815-822.	8.2	89
62	Response of the bacterial diversity and soil enzyme activity in particle-size fractions of Mollisol after different fertilization in a long-term experiment. <i>Biology and Fertility of Soils</i> , 2014, 50, 901-911.	4.3	110
63	Response of the population size and community structure of <i>Paenibacillus</i> spp. to different fertilization regimes in a long-term experiment of red soil. <i>Plant and Soil</i> , 2014, 383, 87-98.	3.7	12
64	Insights into complexation of dissolved organic matter and Al(III) and nanominerals formation in soils under contrasting fertilizations using two-dimensional correlation spectroscopy and high resolution-transmission electron microscopy techniques. <i>Chemosphere</i> , 2014, 111, 441-449.	8.2	59
65	Long-Term Fertilization Practices Alter Aluminum Fractions and Coordinate State in Soil Colloids. <i>Soil Science Society of America Journal</i> , 2014, 78, 2083-2089.	2.2	40
66	A comparison of organic matters responsible for immersed ultrafiltration membranes fouling in drinking water treatment. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 339-345.	1.5	1
67	Optimization of <i>Trichoderma harzianum</i> T-E5 biomass and determining the degradation sequence of biopolymers by FTIR in solid-state fermentation. <i>Industrial Crops and Products</i> , 2013, 49, 619-627.	5.2	10
68	Investigation on extracellular polymeric substances from mucilaginous cyanobacterial blooms in eutrophic freshwater lakes. <i>Chemosphere</i> , 2013, 93, 75-81.	8.2	106
69	Characteristics and kinetics of ammonia and N ₂ O emissions of aged refuse irrigated from landfill leachate. <i>Waste Management</i> , 2013, 33, 1229-1236.	7.4	4
70	Harzianolide, a novel plant growth regulator and systemic resistance elicitor from <i>Trichoderma harzianum</i> . <i>Plant Physiology and Biochemistry</i> , 2013, 73, 106-113.	5.8	141
71	Enhancement of lipopeptides production in a two-temperature-stage process under SSF conditions and its bioprocess in the fermenter. <i>Bioresource Technology</i> , 2013, 127, 209-215.	9.6	18
72	Aromatic Moieties from Matured Chicken Manure and Agriculture Residues Compost Suppress Growth of <i>Lepidium sativum</i> L. and <i>Trichoderma harzianum</i> . <i>Pedosphere</i> , 2013, 23, 826-834.	4.0	2

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73	Heterogeneity in metal binding by individual fluorescent components in a eutrophic algae-rich lake. <i>Ecotoxicology and Environmental Safety</i> , 2013, 98, 266-272.	6.0	56
74	Combination of two-dimensional correlation spectroscopy and parallel factor analysis to characterize the binding of heavy metals with DOM in lake sediments. <i>Journal of Hazardous Materials</i> , 2013, 263, 412-421.	12.4	155
75	Insights into extracellular polymeric substances of <i>Cyanobacterium Microcystis aeruginosa</i> using fractionation procedure and parallel factor analysis. <i>Water Research</i> , 2013, 47, 2005-2014.	11.3	251
76	The role of non-crystalline Fe in the increase of SOC after long-term organic manure application to the red soil of southern China. <i>European Journal of Soil Science</i> , 2013, 64, 797-804.	3.9	57
77	Functional Groups Determine Biochar Properties (pH and EC) as Studied by Two-Dimensional ¹³ C NMR Correlation Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e65949.	2.5	106
78	Binding of Organic Ligands with Al(III) in Dissolved Organic Matter from Soil: Implications for Soil Organic Carbon Storage. <i>Environmental Science & Technology</i> , 2012, 46, 6102-6109.	10.0	159
79	Humic-Like Substances from Different Compost Extracts Could Significantly Promote Cucumber Growth. <i>Pedosphere</i> , 2012, 22, 815-824.	4.0	33
80	Production and characterization of acidophilic xylanolytic enzymes from <i>Penicillium oxalicum</i> GZ-2. <i>Bioresource Technology</i> , 2012, 123, 117-124.	9.6	50
81	Structure of chemical components in different compost extracts characterized by chromatogram and spectroscopy analysis and its influence on plant growth promotion. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 325-333.	3.0	7
82	Fate of biopolymers during rapeseed meal and wheat bran composting as studied by two-dimensional correlation spectroscopy in combination with multiple fluorescence labeling techniques. <i>Bioresource Technology</i> , 2012, 105, 88-94.	9.6	62
83	Assessment of the maturity and biological parameters of compost produced from dairy manure and rice chaff by excitation-emission matrix fluorescence spectroscopy. <i>Bioresource Technology</i> , 2012, 110, 330-337.	9.6	63
84	Phytotoxicity analysis of extracts from compost and their ability to inhibit soil-borne pathogenic fungi and reduce root-knot nematodes. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 1193-1201.	3.6	24
85	Multiple Fluorescence Labeling and Two Dimensional FTIR- ¹³ C NMR Heterospectral Correlation Spectroscopy to Characterize Extracellular Polymeric Substances in Biofilms Produced during Composting. <i>Environmental Science & Technology</i> , 2011, 45, 9224-9231.	10.0	116
86	Effect of ultrasonic pretreatment on anaerobic digestion and its sludge dewaterability. <i>Journal of Environmental Sciences</i> , 2011, 23, 1472-1478.	6.1	35
87	Changes in biochemical and microbiological parameters during the period of rapid composting of dairy manure with rice chaff. <i>Bioresource Technology</i> , 2011, 102, 9040-9049.	9.6	167
88	Different analysis techniques for fluorescence excitation-emission matrix spectroscopy to assess compost maturity. <i>Chemosphere</i> , 2011, 82, 1202-1208.	8.2	84
89	Optimization of the production of poly- γ -glutamic acid by <i>Bacillus amyloliquefaciens</i> C1 in solid-state fermentation using dairy manure compost and monosodium glutamate production residues as basic substrates. <i>Bioresource Technology</i> , 2011, 102, 7548-7554.	9.6	57
90	Fluorescence excitation-emission spectroscopy with regional integration analysis for assessment of compost maturity. <i>Waste Management</i> , 2011, 31, 1729-1736.	7.4	50

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91	PARAFAC modeling of fluorescence excitation–emission spectra for rapid assessment of compost maturity. <i>Bioresource Technology</i> , 2010, 101, 8244-8251.	9.6	104
92	Effects of ultrasonic pretreatment on sludge dewaterability and extracellular polymeric substances distribution in mesophilic anaerobic digestion. <i>Journal of Environmental Sciences</i> , 2010, 22, 474-480.	6.1	39
93	Reconsideration of anaerobic fermentation from excess sludge at pH 10.0 as an eco-friendly process. <i>Journal of Hazardous Materials</i> , 2010, 175, 510-517.	12.4	17
94	Enhanced storage stability of aerobic granules seeded with pellets. <i>Bioresource Technology</i> , 2010, 101, 8031-8037.	9.6	21
95	Extracellular Polymeric Substances (EPS) and Extracellular Enzymes in Aerobic Granules. <i>Drying Technology</i> , 2010, 28, 910-915.	3.1	11
96	Novel insights into sludge dewaterability by fluorescence excitation–emission matrix combined with parallel factor analysis. <i>Water Research</i> , 2010, 44, 797-806.	11.3	177
97	Fouling Layer with Fractionated Extracellular Polymeric Substances of Activated Sludge. <i>Separation Science and Technology</i> , 2010, 45, 993-1002.	2.5	9
98	Breakage and Regrowth of Sludge Flocs by Removal and Readdition of Extracellular Polymeric Substances Fractions. <i>Environmental Engineering Science</i> , 2009, 26, 1533-1540.	1.6	5
99	Enzyme extraction by ultrasound from sludge flocs. <i>Journal of Environmental Sciences</i> , 2009, 21, 204-210.	6.1	49
100	Effect of proteins, polysaccharides, and particle sizes on sludge dewaterability. <i>Journal of Environmental Sciences</i> , 2009, 21, 83-88.	6.1	124
101	Characteristics of extracellular polymeric substances (EPS) fractions from excess sludges and their effects on bioflocculability. <i>Bioresource Technology</i> , 2009, 100, 3193-3198.	9.6	225
102	Filterability and extracellular polymeric substances of aerobic granules for AGMBR process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 479-483.	5.3	20
103	Enhanced aerobic granulation with extracellular polymeric substances (EPS)-free pellets. <i>Bioresource Technology</i> , 2009, 100, 4611-4615.	9.6	29
104	Extracellular enzymes in sludge flocs collected at 14 full-scale wastewater treatment plants. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1717-1725.	3.2	25
105	Extracellular proteins, polysaccharides and enzymes impact on sludge aerobic digestion after ultrasonic pretreatment. <i>Water Research</i> , 2008, 42, 1925-1934.	11.3	185
106	Toward understanding the mechanism of improving the production of volatile fatty acids from activated sludge at pH 10.0. <i>Water Research</i> , 2008, 42, 4637-4644.	11.3	102
107	Stratification Structure of Sludge Flocs with Implications to Dewaterability. <i>Environmental Science & Technology</i> , 2008, 42, 7944-7949.	10.0	333
108	Isolates identification and characteristics of microorganisms in biotrickling filter and biofilter system treating H ₂ S and NH ₃ . <i>Journal of Environmental Sciences</i> , 2007, 19, 859-863.	6.1	23

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109	Enzyme activities in activated sludge flocs. Applied Microbiology and Biotechnology, 2007, 77, 605-612.	3.6	82
110	Review of: "Multiple soil map comparison highlights challenges for predicting topsoil organic carbon concentration at national scale". Qeios, 0, , .	0.0	0