

Felipe Bastida

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

6,205
citations

66343

42
h-index

74163

75
g-index

97
all docs

97
docs citations

97
times ranked

6967
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	7.8	543
2	Past, present and future of soil quality indices: A biological perspective. <i>Geoderma</i> , 2008, 147, 159-171.	5.1	516
3	Microbiological degradation index of soils in a semiarid climate. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3463-3473.	8.8	308
4	Application of fresh and composted organic wastes modifies structure, size and activity of soil microbial community under semiarid climate. <i>Applied Soil Ecology</i> , 2008, 40, 318-329.	4.3	279
5	Identification of sensitive indicators to assess the interrelationship between soil quality, management practices and human health. <i>Soil</i> , 2015, 1, 173-185.	4.9	209
6	Soil microbial diversityâ€“biomass relationships are driven by soil carbon content across global biomes. <i>ISME Journal</i> , 2021, 15, 2081-2091.	9.8	186
7	Biochar influences the microbial community structure during manure composting with agricultural wastes. <i>Science of the Total Environment</i> , 2012, 416, 476-481.	8.0	185
8	The active microbial diversity drives ecosystem multifunctionality and is physiologically related to carbon availability in Mediterranean semiâ€“arid soils. <i>Molecular Ecology</i> , 2016, 25, 4660-4673.	3.9	151
9	Differential sensitivity of total and active soil microbial communities to drought and forest management. <i>Global Change Biology</i> , 2017, 23, 4185-4203.	9.5	150
10	Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , 2019, 10, 3481.	12.8	148
11	The ecological and physiological responses of the microbial community from a semiarid soil to hydrocarbon contamination and its bioremediation using compost amendment. <i>Journal of Proteomics</i> , 2016, 135, 162-169.	2.4	136
12	Insights from quantitative metaproteomics and protein-stable isotope probing into microbial ecology. <i>ISME Journal</i> , 2013, 7, 1877-1885.	9.8	107
13	Soil restoration with organic amendments: linking cellular functionality and ecosystem processes. <i>Scientific Reports</i> , 2015, 5, 15550.	3.3	104
14	Soil metaproteomics: a review of an emerging environmental science. Significance, methodology and perspectives. <i>European Journal of Soil Science</i> , 2009, 60, 845-859.	3.9	103
15	Soil microbial community under a nurse-plant species changes in composition, biomass and activity as the nurse grows. <i>Soil Biology and Biochemistry</i> , 2013, 64, 139-146.	8.8	102
16	Phylogenetic and functional changes in the microbial community of long-term restored soils under semiarid climate. <i>Soil Biology and Biochemistry</i> , 2013, 65, 12-21.	8.8	98
17	Protein-based stable isotope probing. <i>Nature Protocols</i> , 2010, 5, 1957-1966.	12.0	97
18	Long-term Effect of Municipal Solid Waste Amendment on Microbial Abundance and Humus-associated Enzyme Activities Under Semiarid Conditions. <i>Microbial Ecology</i> , 2008, 55, 651-661.	2.8	96

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19	Combined effects of reduced irrigation and water quality on the soil microbial community of a citrus orchard under semi-arid conditions. <i>Soil Biology and Biochemistry</i> , 2017, 104, 226-237.	8.8	94
20	The long-term effects of the management of a forest soil on its carbon content, microbial biomass and activity under a semi-arid climate. <i>Applied Soil Ecology</i> , 2007, 37, 53-62.	4.3	86
21	Microbiological activity in a soil 15 years after its devegetation. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2503-2507.	8.8	85
22	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	10.3	83
23	Metaproteomics of soils from semiarid environment: Functional and phylogenetic information obtained with different protein extraction methods. <i>Journal of Proteomics</i> , 2014, 101, 31-42.	2.4	82
24	Soil microbial community structure and activity in monospecific and mixed forest stands, under Mediterranean humid conditions. <i>Plant and Soil</i> , 2012, 354, 359-370.	3.7	77
25	Can the labile carbon contribute to carbon immobilization in semiarid soils? Priming effects and microbial community dynamics. <i>Soil Biology and Biochemistry</i> , 2013, 57, 892-902.	8.8	74
26	Plant-plant competition outcomes are modulated by plant effects on the soil bacterial community. <i>Scientific Reports</i> , 2017, 7, 17756.	3.3	66
27	Soil fertility and crop production are fostered by micro-nano bubble irrigation with associated changes in soil bacterial community. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107663.	8.8	64
28	The impacts of organic amendments: Do they confer stability against drought on the soil microbial community?. <i>Soil Biology and Biochemistry</i> , 2017, 113, 173-183.	8.8	62
29	Bacteria dominate the short-term assimilation of plant-derived N in soil. <i>Soil Biology and Biochemistry</i> , 2016, 96, 30-38.	8.8	59
30	Soil organic carbon buffers heavy metal contamination on semiarid soils: Effects of different metal threshold levels on soil microbial activity. <i>European Journal of Soil Biology</i> , 2009, 45, 220-228.	3.2	58
31	The role of lignin and cellulose in the carbon-cycling of degraded soils under semiarid climate and their relation to microbial biomass. <i>Soil Biology and Biochemistry</i> , 2014, 75, 152-160.	8.8	57
32	Influence of orientation, vegetation and season on soil microbial and biochemical characteristics under semiarid conditions. <i>Applied Soil Ecology</i> , 2008, 38, 62-70.	4.3	54
33	Altered leaf litter quality exacerbates the negative impact of climate change on decomposition. <i>Journal of Ecology</i> , 2019, 107, 2364-2382.	4.0	53
34	Effects of organic amendments on soil carbon fractions, enzyme activity and humus enzyme complexes under semi-arid conditions. <i>European Journal of Soil Biology</i> , 2012, 53, 94-102.	3.2	52
35	Using proteins to study how microbes contribute to soil ecosystem services: The current state and future perspectives of soil metaproteomics. <i>Journal of Proteomics</i> , 2019, 198, 50-58.	2.4	52
36	The combination of quarry restoration strategies in semiarid climate induces different responses in biochemical and microbiological soil properties. <i>Applied Soil Ecology</i> , 2016, 107, 33-47.	4.3	51

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37	Analysis of structure, function, and activity of a benzene-degrading microbial community. FEMS Microbiology Ecology, 2013, 85, 14-26.	2.7	48
38	Elucidating MTBE degradation in a mixed consortium using a multidisciplinary approach. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	47
39	Boron in soil: The impacts on the biomass, composition and activity of the soil microbial community. Science of the Total Environment, 2019, 685, 564-573.	8.0	47
40	The influence of soil age on ecosystem structure and function across biomes. Nature Communications, 2020, 11, 4721.	12.8	47
41	Addition of Urban Waste to Semiarid Degraded Soil: Long-term Effect. Pedosphere, 2007, 17, 557-567.	4.0	46
42	The effects of struvite and sewage sludge on plant yield and the microbial community of a semiarid Mediterranean soil. Geoderma, 2019, 337, 1051-1057.	5.1	46
43	Native soil organic matter conditions the response of microbial communities to organic inputs with different stability. Geoderma, 2017, 295, 1-9.	5.1	45
44	When drought meets forest management: Effects on the soil microbial community of a Holm oak forest ecosystem. Science of the Total Environment, 2019, 662, 276-286.	8.0	45
45	The effects of human trampling on the microbiological properties of soil and vegetation in mediterranean mountain areas. Land Degradation and Development, 2011, 22, 383-394.	3.9	44
46	Microbiological and biochemical properties of artificial substrates: A preliminary study of its application as Technosols or as a basis in Green Roof Systems. Ecological Engineering, 2014, 70, 189-199.	3.6	44
47	Benefactor and allelopathic shrub species have different effects on the soil microbial community along an environmental severity gradient. Soil Biology and Biochemistry, 2015, 88, 48-57.	8.8	44
48	It's all about functionality: How can metaproteomics help us to discuss the attributes of ecological relevance in soil?. Journal of Proteomics, 2016, 144, 159-161.	2.4	42
49	Quantity and spectroscopic properties of soil dissolved organic matter (DOM) as a function of soil sample treatments: Air-drying and pre-incubation. Chemosphere, 2007, 69, 1040-1046.	8.2	41
50	Role of amendments on N cycling in Mediterranean abandoned semiarid soils. Applied Soil Ecology, 2009, 41, 195-205.	4.3	37
51	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
52	Altitude-related factors but not <i>Pinus</i> community exert a dominant role over chemical and microbiological properties of a Mediterranean humid soil. European Journal of Soil Science, 2012, 63, 541-549.	3.9	35
53	Ecological and functional adaptations to water management in a semiarid agroecosystem: a soil metaproteomics approach. Scientific Reports, 2017, 7, 10221.	3.3	34
54	Microbial interactions during residual oil and <i>n</i> -hexadecanoic fatty acid metabolism by a methanogenic consortium. Environmental Microbiology Reports, 2012, 4, 297-306.	2.4	33

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55	Environmentally relevant concentrations of silver nanoparticles diminish soil microbial biomass but do not alter enzyme activities or microbial diversity. <i>Journal of Hazardous Materials</i> , 2020, 391, 122224.	12.4	33
56	The effects of fresh and stabilized pruning wastes on the biomass, structure and activity of the soil microbial community in a semiarid climate. <i>Applied Soil Ecology</i> , 2015, 89, 1-9.	4.3	32
57	Field trial on removal of petroleum hydrocarbon pollutants using a microbial consortium for bioremediation and rhizoremediation. <i>Environmental Microbiology Reports</i> , 2015, 7, 85-94.	2.4	32
58	Large-scale drivers of relationships between soil microbial properties and organic carbon across Europe. <i>Global Ecology and Biogeography</i> , 2021, 30, 2070-2083.	5.8	32
59	Characterization of the microbial community in biological soil crusts dominated by <i>Fulgensia desertorum</i> (Tomin) Poelt and <i>Squamarina cartilaginea</i> (With.) P. James and in the underlying soil. <i>Soil Biology and Biochemistry</i> , 2014, 76, 70-79.	8.8	30
60	Climatic vulnerabilities and ecological preferences of soil invertebrates across biomes. <i>Molecular Ecology</i> , 2020, 29, 752-761.	3.9	29
61	Tracing Changes in the Microbial Community of a Hydrocarbon-Polluted Soil by Culture-Dependent Proteomics. <i>Pedosphere</i> , 2010, 20, 479-485.	4.0	27
62	Deforestation fosters bacterial diversity and the cyanobacterial community responsible for carbon fixation processes under semiarid climate: a metaproteomics study. <i>Applied Soil Ecology</i> , 2015, 93, 65-67.	4.3	27
63	Comparing the impacts of drip irrigation by freshwater and reclaimed wastewater on the soil microbial community of two citrus species. <i>Agricultural Water Management</i> , 2018, 203, 53-62.	5.6	27
64	Influence of forest cover and herbaceous vegetation on the microbiological and biochemical properties of soil under Mediterranean humid climate. <i>European Journal of Soil Biology</i> , 2010, 46, 273-279.	3.2	23
65	Soil Metaproteomics for the Study of the Relationships Between Microorganisms and Plants: A Review of Extraction Protocols and Ecological Insights. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8455.	4.1	23
66	Priming effects in soils across Europe. <i>Global Change Biology</i> , 2022, 28, 2146-2157.	9.5	22
67	Feasibility of a cell separation-proteomic based method for soils with different edaphic properties and microbial biomass. <i>Soil Biology and Biochemistry</i> , 2012, 45, 136-138.	8.8	21
68	Assimilation of benzene carbon through multiple trophic levels traced by different stable isotope probing methodologies. <i>FEMS Microbiology Ecology</i> , 2011, 77, 357-369.	2.7	20
69	Land use shapes the resistance of the soil microbial community and the C cycling response to drought in a semi-arid area. <i>Science of the Total Environment</i> , 2019, 648, 1018-1030.	8.0	20
70	Agro-forestry management of Paulownia plantations and their impact on soil biological quality: The effects of fertilization and irrigation treatments. <i>Applied Soil Ecology</i> , 2017, 117-118, 46-56.	4.3	19
71	The extracellular metaproteome of soils under semiarid climate: A methodological comparison of extraction buffers. <i>Science of the Total Environment</i> , 2018, 619-620, 707-711.	8.0	18
72	Combined ozonation and solarization for the removal of pesticides from soil: Effects on soil microbial communities. <i>Science of the Total Environment</i> , 2021, 758, 143950.	8.0	18

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73	Role of organic amendment application on soil quality, functionality and greenhouse emission in a limestone quarry from semiarid ecosystems. <i>Applied Soil Ecology</i> , 2021, 164, 103925.	4.3	18
74	Response of soil chemical properties, enzyme activities and microbial communities to biochar application and climate change in a Mediterranean agroecosystem. <i>Geoderma</i> , 2022, 407, 115536.	5.1	17
75	Impacts and mechanisms of nanobubbles level in drip irrigation system on soil fertility, water use efficiency and crop production: The perspective of soil microbial community. <i>Journal of Cleaner Production</i> , 2022, 333, 130050.	9.3	16
76	Functional soil mycobiome across ecosystems. <i>Journal of Proteomics</i> , 2022, 252, 104428.	2.4	15
77	The global biogeography of soil priming effect intensity. <i>Global Ecology and Biogeography</i> , 2022, 31, 1679-1687.	5.8	15
78	The enzymatic and physiological response of the microbial community in semiarid soil to carbon compounds from plants. <i>European Journal of Soil Science</i> , 2016, 67, 456-469.	3.9	14
79	Microbial activity in non-agricultural degraded soils exposed to semiarid climate. <i>Science of the Total Environment</i> , 2007, 378, 183-186.	8.0	13
80	The nitrogen cycle in anaerobic methanotrophic mats of the Black Sea is linked to sulfate reduction and biomass decomposition. <i>FEMS Microbiology Ecology</i> , 2013, 86, 231-245.	2.7	13
81	Plant and soil microbial community responses to different water management strategies in an almond crop. <i>Science of the Total Environment</i> , 2021, 778, 146148.	8.0	13
82	Climate shapes the protein abundance of dominant soil bacteria. <i>Science of the Total Environment</i> , 2018, 640-641, 18-21.	8.0	12
83	Solarization-based pesticide degradation results in decreased activity and biomass of the soil microbial community. <i>Geoderma</i> , 2019, 354, 113893.	5.1	12
84	Organic amendments exacerbate the effects of silver nanoparticles on microbial biomass and community composition of a semiarid soil. <i>Science of the Total Environment</i> , 2020, 744, 140919.	8.0	12
85	The structure and function of soil archaea across biomes. <i>Journal of Proteomics</i> , 2021, 237, 104147.	2.4	10
86	Response of Soil Microbial Community to a High Dose of Fresh Olive Mill Wastewater. <i>Pedosphere</i> , 2013, 23, 281-289.	4.0	9
87	Enzyme activity, microbial biomass and community structure in a long-term restored soil under semi-arid conditions. <i>Soil Research</i> , 2015, 53, 553.	1.1	9
88	Compost, leonardite, and zeolite impacts on soil microbial community under barley crops. <i>Journal of Soil Science and Plant Nutrition</i> , 2017, , 0-0.	3.4	9
89	In vitro elucidation of suppression effects of composts to soil-borne pathogen <i>Phytophthora nicotianae</i> on pepper plants using 16S amplicon sequencing and metaproteomics. <i>Renewable Agriculture and Food Systems</i> , 2020, 35, 206-214.	1.8	9
90	Selenium fertigation with nanobubbles influences soil selenium residual and plant performance by modulation of bacterial community. <i>Journal of Hazardous Materials</i> , 2022, 423, 127114.	12.4	9

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91	Soil Degradation and Rehabilitation: Microorganisms and Functionality. , 2010, , 253-270.		8
92	Soil Erosion and C Losses: Strategies for Building Soil Carbon. , 2018, , 215-238.		8
93	Interactions between soil microbial communities and agronomic behavior in a mandarin crop subjected to water deficit and irrigated with reclaimed water. Agricultural Water Management, 2021, 247, 106749.	5.6	7
94	Use of Slaughterhouse Sludge in the Bioremediation of an Oxyfluorfen-Polluted Soil. International Journal of Environmental Research, 2021, 15, 723-731.	2.3	7
95	Relationship between the Agricultural Management of a Semiárid Soil and Microbiological Quality. Communications in Soil Science and Plant Analysis, 2008, 39, 421-439.	1.4	6
96	Microhabitat heterogeneity associated with Vanilla spp. and its influences on the microbial community of leaf litter and soil. Soil Ecology Letters, 2020, 2, 195-208.	4.5	2