

# Felipe Bastida

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

6,205  
citations

76031

42  
h-index

84171

75  
g-index

97  
all docs

97  
docs citations

97  
times ranked

7727  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.5	9
2	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.	2.3	17
3	Functional soil mycobiome across ecosystems. <i>Journal of Proteomics</i> , 2022, 252, 104428.	1.2	15
4	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. <i>Global Change Biology</i> , 2022, 28, 1516-1528.	4.2	37
5	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.	4.6	16
6	Priming effects in soils across Europe. <i>Global Change Biology</i> , 2022, 28, 2146-2157.	4.2	22
7	The global biogeography of soil priming effect intensity. <i>Global Ecology and Biogeography</i> , 2022, 31, 1679-1687.	2.7	15
8	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.	3.9	18
9	Soil microbial diversityâ€“biomass relationships are driven by soil carbon content across global biomes. <i>ISME Journal</i> , 2021, 15, 2081-2091.	4.4	186
10	Interactions between soil microbial communities and agronomic behavior in a mandarin crop subjected to water deficit and irrigated with reclaimed water. <i>Agricultural Water Management</i> , 2021, 247, 106749.	2.4	7
11	The structure and function of soil archaea across biomes. <i>Journal of Proteomics</i> , 2021, 237, 104147.	1.2	10
12	Use of Slaughterhouse Sludge in the Bioremediation of an Oxyfluorfen-Polluted Soil. <i>International Journal of Environmental Research</i> , 2021, 15, 723-731.	1.1	7
13	Global homogenization of the structure and function in the soil microbiome of urban greenspaces. <i>Science Advances</i> , 2021, 7, .	4.7	83
14	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.	3.9	13
15	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.	2.1	18
16	Large-scale drivers of relationships between soil microbial properties and organic carbon across Europe. <i>Global Ecology and Biogeography</i> , 2021, 30, 2070-2083.	2.7	32
17	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.	0.8	9
18	Climatic vulnerabilities and ecological preferences of soil invertebrates across biomes. <i>Molecular Ecology</i> , 2020, 29, 752-761.	2.0	29

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19	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.	4.2	64
20	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.	3.9	12
21	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.	1.8	23
22	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , 2020, 11, 4721.	5.8	47
23	Microhabitat heterogeneity associated with <i>Vanilla</i> spp. and its influences on the microbial community of leaf litter and soil. <i>Soil Ecology Letters</i> , 2020, 2, 195-208.	2.4	2
24	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.	6.5	33
25	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	3.4	543
26	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.	3.9	20
27	Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , 2019, 10, 3481.	5.8	148
28	Solarization-based pesticide degradation results in decreased activity and biomass of the soil microbial community. <i>Geoderma</i> , 2019, 354, 113893.	2.3	12
29	When drought meets forest management: Effects on the soil microbial community of a Holm oak forest ecosystem. <i>Science of the Total Environment</i> , 2019, 662, 276-286.	3.9	45
30	Boron in soil: The impacts on the biomass, composition and activity of the soil microbial community. <i>Science of the Total Environment</i> , 2019, 685, 564-573.	3.9	47
31	Altered leaf litter quality exacerbates the negative impact of climate change on decomposition. <i>Journal of Ecology</i> , 2019, 107, 2364-2382.	1.9	53
32	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.	1.2	52
33	The effects of struvite and sewage sludge on plant yield and the microbial community of a semiarid Mediterranean soil. <i>Geoderma</i> , 2019, 337, 1051-1057.	2.3	46
34	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.	3.9	18
35	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.	2.4	27
36	Climate shapes the protein abundance of dominant soil bacteria. <i>Science of the Total Environment</i> , 2018, 640-641, 18-21.	3.9	12

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37	Soil Erosion and C Losses: Strategies for Building Soil Carbon. , 2018, , 215-238.		8
38	Native soil organic matter conditions the response of microbial communities to organic inputs with different stability. <i>Geoderma</i> , 2017, 295, 1-9.	2.3	45
39	Differential sensitivity of total and active soil microbial communities to drought and forest management. <i>Global Change Biology</i> , 2017, 23, 4185-4203.	4.2	150
40	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.	4.2	62
41	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.	2.1	19
42	Ecological and functional adaptations to water management in a semiarid agroecosystem: a soil metaproteomics approach. <i>Scientific Reports</i> , 2017, 7, 10221.	1.6	34
43	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.	4.2	94
44	Plant-plant competition outcomes are modulated by plant effects on the soil bacterial community. <i>Scientific Reports</i> , 2017, 7, 17756.	1.6	66
45	Compost, leonardite, and zeolite impacts on soil microbial community under barley crops. <i>Journal of Soil Science and Plant Nutrition</i> , 2017, , 0-0.	1.7	9
46	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.	2.1	51
47	The active microbial diversity drives ecosystem multifunctionality and is physiologically related to carbon availability in Mediterranean semi-arid soils. <i>Molecular Ecology</i> , 2016, 25, 4660-4673.	2.0	151
48	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.	1.8	14
49	It's all about functionality: How can metaproteomics help us to discuss the attributes of ecological relevance in soil?. <i>Journal of Proteomics</i> , 2016, 144, 159-161.	1.2	42
50	Bacteria dominate the short-term assimilation of plant-derived N in soil. <i>Soil Biology and Biochemistry</i> , 2016, 96, 30-38.	4.2	59
51	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.	1.2	136
52	Soil restoration with organic amendments: linking cellular functionality and ecosystem processes. <i>Scientific Reports</i> , 2015, 5, 15550.	1.6	104
53	Benefactor and allelopathic shrub species have different effects on the soil microbial community along an environmental severity gradient. <i>Soil Biology and Biochemistry</i> , 2015, 88, 48-57.	4.2	44
54	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.	2.1	32

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55	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.	2.1	27
56	Identification of sensitive indicators to assess the interrelationship between soil quality, management practices and human health. <i>Soil</i> , 2015, 1, 173-185.	2.2	209
57	Enzyme activity, microbial biomass and community structure in a long-term restored soil under semi-arid conditions. <i>Soil Research</i> , 2015, 53, 553.	0.6	9
58	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.	1.0	32
59	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.	1.2	82
60	Microbiological and biochemical properties of artificial substrates: A preliminary study of its application as Technosols or as a basis in Green Roof Systems. <i>Ecological Engineering</i> , 2014, 70, 189-199.	1.6	44
61	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.	4.2	57
62	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.	4.2	30
63	Response of Soil Microbial Community to a High Dose of Fresh Olive Mill Wastewater. <i>Pedosphere</i> , 2013, 23, 281-289.	2.1	9
64	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.	4.2	74
65	Analysis of structure, function, and activity of a benzene-degrading microbial community. <i>FEMS Microbiology Ecology</i> , 2013, 85, 14-26.	1.3	48
66	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.	1.3	13
67	Insights from quantitative metaproteomics and protein-stable isotope probing into microbial ecology. <i>ISME Journal</i> , 2013, 7, 1877-1885.	4.4	107
68	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.	4.2	98
69	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.	4.2	102
70	Altitude-related factors but not <i>Pinus</i> community exert a dominant role over chemical and microbiological properties of a Mediterranean humid soil. <i>European Journal of Soil Science</i> , 2012, 63, 541-549.	1.8	35
71	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.	1.4	52
72	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.	1.8	77

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73	Microbial interactions during residual oil and fatty acid metabolism by a methanogenic consortium. <i>Environmental Microbiology Reports</i> , 2012, 4, 297-306.	1.0	33
74	Biochar influences the microbial community structure during manure composting with agricultural wastes. <i>Science of the Total Environment</i> , 2012, 416, 476-481.	3.9	185
75	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.	4.2	21
76	Assimilation of benzene carbon through multiple trophic levels traced by different stable isotope probing methodologies. <i>FEMS Microbiology Ecology</i> , 2011, 77, 357-369.	1.3	20
77	The effects of human trampling on the microbiological properties of soil and vegetation in mediterranean mountain areas. <i>Land Degradation and Development</i> , 2011, 22, 383-394.	1.8	44
78	Elucidating MTBE degradation in a mixed consortium using a multidisciplinary approach. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	47
79	Protein-based stable isotope probing. <i>Nature Protocols</i> , 2010, 5, 1957-1966.	5.5	97
80	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.	1.4	23
81	Tracing Changes in the Microbial Community of a Hydrocarbon-Polluted Soil by Culture-Dependent Proteomics. <i>Pedosphere</i> , 2010, 20, 479-485.	2.1	27
82	Soil Degradation and Rehabilitation: Microorganisms and Functionality. , 2010, , 253-270.		8
83	Soil metaproteomics: a review of an emerging environmental science. Significance, methodology and perspectives. <i>European Journal of Soil Science</i> , 2009, 60, 845-859.	1.8	103
84	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.	1.4	58
85	Role of amendments on N cycling in Mediterranean abandoned semiarid soils. <i>Applied Soil Ecology</i> , 2009, 41, 195-205.	2.1	37
86	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.	1.4	96
87	Relationship between the Agricultural Management of a Semi-arid Soil and Microbiological Quality. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 421-439.	0.6	6
88	Influence of orientation, vegetation and season on soil microbial and biochemical characteristics under semiarid conditions. <i>Applied Soil Ecology</i> , 2008, 38, 62-70.	2.1	54
89	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.	2.1	279
90	Past, present and future of soil quality indices: A biological perspective. <i>Geoderma</i> , 2008, 147, 159-171.	2.3	516

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91	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.	2.1	86
92	Quantity and spectroscopic properties of soil dissolved organic matter (DOM) as a function of soil sample treatments: Air-drying and pre-incubation. <i>Chemosphere</i> , 2007, 69, 1040-1046.	4.2	41
93	Addition of Urban Waste to Semiarid Degraded Soil: Long-term Effect. <i>Pedosphere</i> , 2007, 17, 557-567.	2.1	46
94	Microbial activity in non-agricultural degraded soils exposed to semiarid climate. <i>Science of the Total Environment</i> , 2007, 378, 183-186.	3.9	13
95	Microbiological activity in a soil 15 years after its devegetation. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2503-2507.	4.2	85
96	Microbiological degradation index of soils in a semiarid climate. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3463-3473.	4.2	308