

Vincent J M N L Felde

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

685
citations

567144

15
h-index

677027

22
g-index

28
all docs

28
docs citations

28
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil microstructure as an under-explored feature of biological soil crust hydrological properties: case study from the NW Negev Desert. <i>Biodiversity and Conservation</i> , 2014, 23, 1687-1708.	1.2	78
2	Microhydrological Niches in Soils: How Mucilage and EPS Alter the Biophysical Properties of the Rhizosphere and Other Biological Hotspots. <i>Vadose Zone Journal</i> , 2019, 18, 1-10.	1.3	73
3	Development of the polysaccharidic matrix in biocrusts induced by a cyanobacterium inoculated in sand microcosms. <i>Biology and Fertility of Soils</i> , 2018, 54, 27-40.	2.3	72
4	Cyanobacterial Diversity in Biological Soil Crusts along a Precipitation Gradient, Northwest Negev Desert, Israel. <i>Microbial Ecology</i> , 2015, 70, 219-230.	1.4	62
5	The potential of the cyanobacterium <i>Leptolyngbya ohadii</i> as inoculum for stabilizing bare sandy substrates. <i>Soil Biology and Biochemistry</i> , 2018, 127, 318-328.	4.2	61
6	Three-dimensional structure and cyanobacterial activity within a desert biological soil crust. <i>Environmental Microbiology</i> , 2016, 18, 372-383.	1.8	48
7	Effect of vegetation and its succession on water repellency in sandy soils. <i>Ecohydrology</i> , 2018, 11, e1991.	1.1	37
8	Biological soil crusts cause subcritical water repellency in a sand dune ecosystem located along a rainfall gradient in the NW Negev desert, Israel. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 133-140.	0.7	35
9	Wet sieving versus dry crushing: Soil microaggregates reveal different physical structure, bacterial diversity and organic matter composition in a clay gradient. <i>European Journal of Soil Science</i> , 2021, 72, 810-828.	1.8	31
10	Disentangling the effects of OM quality and soil texture on microbially mediated structure formation in artificial model soils. <i>Geoderma</i> , 2021, 403, 115213.	2.3	31
11	Composition and Macrostructure of Biological Soil Crusts. <i>Ecological Studies</i> , 2016, , 159-172.	0.4	22
12	Pore characteristics in biological soil crusts are independent of extracellular polymeric substances. <i>Soil Biology and Biochemistry</i> , 2016, 103, 294-299.	4.2	21
13	Microstructure and Weathering Processes Within Biological Soil Crusts. <i>Ecological Studies</i> , 2016, , 237-255.	0.4	19
14	What stabilizes biological soil crusts in the Negev Desert?. <i>Plant and Soil</i> , 2018, 429, 9-18.	1.8	19
15	In Situ X-Ray Tomography Imaging of Soil Water and Cyanobacteria From Biological Soil Crusts Undergoing Desiccation. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	16
16	Lichens Bite the Dust – A Bioweathering Scenario in the Atacama Desert. <i>IScience</i> , 2020, 23, 101647.	1.9	15
17	Ongoing oversanding induces biological soil crust layering – A new approach for biological soil crust structure elucidation determined from high resolution penetration resistance data. <i>Geoderma</i> , 2018, 313, 250-264.	2.3	14
18	Cyanobacterial populations in biological soil crusts of the northwest Negev Desert, Israel – effects of local conditions and disturbance. <i>FEMS Microbiology Ecology</i> , 2017, 93, fiw228.	1.3	13

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19	Determining Millimeter-Scale Maps of Cation Exchange Capacity at Macropore Surfaces in Bt Horizons. <i>Vadose Zone Journal</i> , 2019, 18, 1-11.	1.3	8
20	Water repellency decreases with increasing carbonate content and pH for different biocrust types on sand dunes. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 369-377.	0.7	6
21	Editorial: Ecological Development and Functioning of Biological Soil Crusts After Natural and Human Disturbances. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	3
22	Comment on "Kidron, G. J. (2018). Biocrust research: A critical view on eight common hydrological-related paradigms and dubious theses. <i>Ecohydrology</i> , 2020, 13, e2215.	1.1	1