

Takeshi Taniguchi

List of Publications by Year in descending order

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50
papers

788
citations

567281

15
h-index

552781

26
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50
all docs

50
docs citations

50
times ranked

974
citing authors

#	ARTICLE	IF	CITATIONS
1	Land-use types and soil chemical properties influence soil microbial communities in the semiarid Loess Plateau region in China. <i>Scientific Reports</i> , 2017, 7, 45289.	3.3	87
2	Does conversion from natural forest to plantation affect fungal and bacterial biodiversity, community structure, and co-occurrence networks in the organic horizon and mineral soil?. <i>Forest Ecology and Management</i> , 2019, 446, 238-250.	3.2	75
3	Does ectomycorrhizal fungal community structure vary along a Japanese black pine (<i>Pinus thunbergii</i>) to black locust (<i>Robinia pseudoacacia</i>) gradient?. <i>New Phytologist</i> , 2007, 173, 322-334.	7.3	63
4	Plant growth and nutrition in pine (<i>Pinus thunbergii</i>) seedlings and dehydrogenase and phosphatase activity of ectomycorrhizal root tips inoculated with seven individual ectomycorrhizal fungal species at high and low nitrogen conditions. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1235-1243.	8.8	45
5	Comparison of the bacterial communities established on the mycorrhizae formed on <i>Pinus thunbergii</i> root tips by eight species of fungi. <i>Plant and Soil</i> , 2008, 304, 267-275.	3.7	40
6	The Impacts of Soil Fertility and Salinity on Soil Nitrogen Dynamics Mediated by the Soil Microbial Community Beneath the Halophytic Shrub Tamarisk. <i>Microbial Ecology</i> , 2018, 75, 985-996.	2.8	39
7	Ectomycorrhizal fungal communities of <i>Quercus liaotungensis</i> along local slopes in the temperate oak forests on the Loess Plateau, China. <i>Ecological Research</i> , 2013, 28, 297-305.	1.5	28
8	Inhibition of the regeneration of Japanese black pine (<i>Pinus thunbergii</i>) by black locust (<i>Robinia pseudoacacia</i>) in coastal sand dunes. <i>Journal of Forest Research</i> , 2007, 12, 350-357.	1.4	26
9	Soil nitrogen cycling is determined by the competition between mycorrhiza and ammonia-oxidizing prokaryotes. <i>Ecology</i> , 2020, 101, e02963.	3.2	26
10	High salt tolerant plant growth promoting rhizobacteria from the common ice-plant <i>Mesembryanthemum crystallinum</i> L. <i>Rhizosphere</i> , 2019, 9, 10-17.	3.0	25
11	A pulse of summer precipitation after the dry season triggers changes in ectomycorrhizal formation, diversity, and community composition in a Mediterranean forest in California, USA. <i>Mycorrhiza</i> , 2018, 28, 665-677.	2.8	24
12	Vertical distribution of fine roots of <i>Tamarix ramosissima</i> in an arid region of southern Nevada. <i>Journal of Arid Environments</i> , 2013, 92, 46-52.	2.4	23
13	Net primary production, nitrogen cycling, biomass allocation, and resource use efficiency along a topographical soil water and nitrogen gradient in a semi-arid forest near an arid boundary. <i>Plant and Soil</i> , 2017, 420, 209-222.	3.7	20
14	Ectomycorrhizae and Their Importance in Forest Ecosystems. , 2008, , 241-285.		20
15	The steps in the soil nitrogen transformation process vary along an aridity gradient via changes in the microbial community. <i>Biogeochemistry</i> , 2019, 144, 15-29.	3.5	19
16	Colonization and community structure of root-associated microorganisms of <i>Sabina vulgaris</i> with soil depth in a semiarid desert ecosystem with shallow groundwater. <i>Mycorrhiza</i> , 2012, 22, 419-428.	2.8	18
17	Arbuscular mycorrhizal fungal communities under gradients of grazing in Mongolian grasslands of different aridity. <i>Mycorrhiza</i> , 2018, 28, 621-634.	2.8	16
18	Fungal selectivity of two mycorrhiza helper bacteria on five mycorrhizal fungi associated with <i>Pinus thunbergii</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1815-1819.	3.6	13

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19	Ectomycorrhizal fungal communities of <i>Quercus liaotungensis</i> along different successional stands on the Loess Plateau, China. <i>Journal of Forest Research</i> , 2014, 19, 395-403.	1.4	13
20	Diet of sympatric wild and domestic ungulates in southern Mongolia by DNA barcoding analysis. <i>Journal of Mammalogy</i> , 2018, 99, 450-458.	1.3	13
21	Salt dynamics in <i>Tamarix ramosissima</i> in the lower Virgin River floodplain, Nevada. <i>Trees - Structure and Function</i> , 2013, 27, 949-958.	1.9	12
22	Inorganic and organic osmolytes accumulation in five halophytes growing in saline habitats around the Aiding Lake area in Turpan Basin, Northwest China. <i>Arid Land Research and Management</i> , 2016, 30, 421-431.	1.6	12
23	Identification of <i>Cylindrocladium</i> sp. causing damping-off disease of Japanese black pine (<i>Pinus thunbergii</i>) and factors affecting the disease severity in a black locust (<i>Robinia</i>)	1.4	10
24	Plantation soil inoculation combined with straw checkerboard barriers enhances ectomycorrhizal colonization and subsequent growth of nursery grown <i>Pinus tabulaeformis</i> seedlings in a dryland. <i>Ecological Engineering</i> , 2021, 163, 106191.	3.6	10
25	Microbial functions and soil nitrogen mineralisation processes in the soil of a cool temperate forest in northern Japan. <i>Biogeochemistry</i> , 2021, 155, 359-379.	3.5	10
26	Effect of soil salinity and nutrient levels on the community structure of the root-associated bacteria of the facultative halophyte, <i>Tamarix ramosissima</i> , in southwestern United States. <i>Journal of General and Applied Microbiology</i> , 2015, 61, 193-202.	0.7	8
27	Arbuscular mycorrhizal colonization of <i>Tamarix ramosissima</i> along a salinity gradient in the southwestern United States. <i>Landscape and Ecological Engineering</i> , 2015, 11, 221-225.	1.5	8
28	Gas exchange by the mesic-origin, arid land plantation species <i>Robinia pseudoacacia</i> under annual summer reduction in plant hydraulic conductance. <i>Tree Physiology</i> , 2018, 38, 1166-1179.	3.1	8
29	Communities of arbuscular mycorrhizal fungi in forest ecosystems in Japan's temperate region may be primarily constituted by limited fungal taxa. <i>Mycorrhiza</i> , 2020, 30, 257-268.	2.8	8
30	Dominance of limited arbuscular mycorrhizal fungal generalists of <i>Sorghum bicolor</i> in a semi-arid region in Sudan. <i>Soil Science and Plant Nutrition</i> , 2019, 65, 570-578.	1.9	7
31	Arbuscular Mycorrhizal Community in Roots and Nitrogen Uptake Patterns of Understory Trees Beneath Ectomycorrhizal and Non-ectomycorrhizal Overstory Trees. <i>Frontiers in Plant Science</i> , 2020, 11, 583585.	3.6	6
32	Dominance of arbuscular mycorrhizal fungi is key for Mongolian steppe management under livestock grazing, as indicated by ecosystem multifunctionality. <i>Ecological Indicators</i> , 2022, 136, 108686.	6.3	6
33	Distribution of Bacterial Species in Soil with a Vegetational Change from Japanese Black Pine (<i>Pinus</i>)	1.6	5
34	Effect of Soil Microbiome from Church Forest in the Northwest Ethiopian Highlands on the Growth of <i>Olea europaea</i> and <i>Albizia gummifera</i> Seedlings under Glasshouse Conditions. <i>Sustainability</i> , 2020, 12, 4976.	3.2	5
35	Micro-catchment water harvesting-based rehabilitation ameliorated soil microbial abundance, diversity and function in a degraded dryland. <i>Applied Soil Ecology</i> , 2021, 164, 103938.	4.3	5
36	Quantification of <i>Wautersia</i> [<i>Ralstonia</i>] <i>basilensis</i> in the mycorrhizosphere of <i>Pinus thunbergii</i> Parl. and its effect on mycorrhizal formation. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2147-2152.	8.8	4

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37	Phytoremediation of calcareous saline-sodic soils with mesquite (<i>Prosopis glandulosa</i>). Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2017, 67, 352-361.	0.6	4
38	Pyrosequencing scrutiny of bacterial and fungal communities in two Sudanese sorghum-based fermented foods. Annals of Microbiology, 2020, 70, .	2.6	4
39	Distribution of ectomycorrhizal and pathogenic fungi in soil along a vegetational change from Japanese black pine (<i>Pinus thunbergii</i>) to black locust (<i>Robinia pseudoacacia</i>). Mycorrhiza, 2009, 19, 231-238.	2.8	3
40	Proteomic analysis of homocholine catabolic pathway in <i>Pseudomonas</i> sp. strain A9. Process Biochemistry, 2015, 50, 1735-1747.	3.7	3
41	Arbuscular mycorrhizal fungal communities of a mangrove forest along a salinity gradient on Iriomote Island. Plant and Soil, 2022, 472, 145-159.	3.7	3
42	Distribution of <i>Frankia</i> and ectomycorrhizal fungi in a denuded volcanic soil exposed by a landslide during heavy rainfall caused by typhoon No. 26 (Wipha) in 2013. Journal of Forest Research, 0, , 1-7.	1.4	3
43	Osmolyte accumulation in leaves of <i>Tamarix ramosissima</i> growing under various soil conditions in the Colorado River basin. Landscape and Ecological Engineering, 2015, 11, 199-207.	1.5	2
44	Soil prokaryotic community structure is determined by a plant-induced soil salinity gradient rather than other environmental parameters associated with plant presence in a saline grassland. Journal of Arid Environments, 2020, 176, 104100.	2.4	2
45	Effects of livestock grazing intensity on soil arbuscular mycorrhizal fungi and glomalin-related soil protein in a mountain forest steppe and a desert steppe of Mongolia. Landscape and Ecological Engineering, 2021, 17, 253-265.	1.5	2
46	Differences in the short-term responses of soil nitrogen and microbial dynamics to soil moisture variation in two adjacent dryland forests. European Journal of Soil Biology, 2022, 110, 103394.	3.2	2
47	Identification of the key genes involved in the degradation of homocholine by <i>Pseudomonas</i> sp. strain A9 by using suppression subtractive hybridization. Process Biochemistry, 2017, 52, 94-105.	3.7	1
48	Early establishment of spruce (<i>Picea glehnii</i> [Fr. Schm.] Masters) seedlings on disturbed soil with the aim of assisted natural regeneration. Scandinavian Journal of Forest Research, 2021, 36, 126-134.	1.4	1
49	Survival Rate, Chemical and Microbial Properties of Oak Seedlings Planted with or without Oak Forest Soils in a Black Locust Forest of a Dryland. Forests, 2021, 12, 669.	2.1	0
50	Chemicals behind the use of <i>Strombus tricornis</i> opercula in traditional sudanese perfumery and medicine. Journal of Bioscience and Bioengineering, 2022, , .	2.2	0