

# Fanjiang Zeng

## List of Publications by Year in descending order

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67  
papers

1,241  
citations

393982

19  
h-index

454577

30  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordinated Patterns in the Allocation, Composition, and Variability of Multiple Elements Among Organs of Two Desert Shrubs Under Nitrogen Addition and Drought. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 47-58.	1.7	9
2	Allocation of foliar-P fractions of <i>Alhagi sparsifolia</i> and its relationship with soil-P fractions and soil properties in a hyperarid desert ecosystem. <i>Geoderma</i> , 2022, 407, 115546.	2.3	19
3	MicroRNA Mediated Plant Responses to Nutrient Stress. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2562.	1.8	27
4	Using hydro-climate elasticity estimator and geographical detector method to quantify the individual and interactive impacts on NDVI in oasis-desert ecotone. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3131-3148.	1.9	5
5	Optimizing Irrigation Strategies to Improve Water Use Efficiency of Cotton in Northwest China Using RZWQM2. <i>Agriculture (Switzerland)</i> , 2022, 12, 383.	1.4	11
6	Foliar P-Fractions Allocation of <i>Karelinia caspia</i> and <i>Tamarix ramosissima</i> Are Driven by Soil and Groundwater Properties in a Hyper-Arid Desert Ecosystem. <i>Frontiers in Plant Science</i> , 2022, 13, 833869.	1.7	2
7	Intercropping of Leguminous and Non-Leguminous Desert Plant Species Does Not Facilitate Phosphorus Mineralization and Plant Nutrition. <i>Cells</i> , 2022, 11, 998.	1.8	8
8	Phosphorus fertilization of <i>Phoebe zhennan</i> seedlings under drought reduces nitrogen assimilation. <i>Journal of Plant Nutrition</i> , 2022, 45, 2228-2238.	0.9	3
9	Effects of slag and biochar amendments on microorganisms and fractions of soil organic carbon during flooding in a paddy field after two years in southeastern China. <i>Science of the Total Environment</i> , 2022, 824, 153783.	3.9	12
10	Assessing landscape fragmentation in a desert-oasis region of Northwest China: patterns, driving forces, and policy implications for future land consolidation. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 394.	1.3	7
11	<i>Alhagi sparsifolia</i> : An ideal phreatophyte for combating desertification and land degradation. <i>Science of the Total Environment</i> , 2022, 844, 157228.	3.9	17
12	Response of nodulation, nitrogen fixation to salt stress in a desert legume <i>Alhagi sparsifolia</i> . <i>Environmental and Experimental Botany</i> , 2021, 183, 104348.	2.0	21
13	Diversity of Root Nodule-Associated Bacteria of Diverse Legumes Along an Elevation Gradient in the Kunlun Mountains, China. <i>Frontiers in Microbiology</i> , 2021, 12, 633141.	1.5	9
14	A global meta-analysis of nitrous oxide emission from drip-irrigated cropping system. <i>Global Change Biology</i> , 2021, 27, 3244-3256.	4.2	47
15	Optimizing Chiral Selectivity in Practical Life-Detection Instruments. <i>Astrobiology</i> , 2021, 21, 505-510.	1.5	3
16	Groundwater Depths Affect Phosphorus and Potassium Resorption but Not Their Utilization in a Desert Phreatophyte in Its Hyper-Arid Environment. <i>Frontiers in Plant Science</i> , 2021, 12, 665168.	1.7	6
17	Nitrous Oxide Emissions from an Alpine Grassland as Affected by Nitrogen Addition. <i>Atmosphere</i> , 2021, 12, 976.	1.0	5
18	Linking soil profile N <sub>2</sub> O concentration with surface flux in a cotton field under drip fertigation. <i>Environmental Pollution</i> , 2021, 285, 117458.	3.7	8

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19	Coupling Relationship of Leaf Economic and Hydraulic Traits of <i>Alhagisparsifolia</i> Shap. in a Hyper-Arid Desert Ecosystem. <i>Plants</i> , 2021, 10, 1867.	1.6	9
20	Water use efficiencies, economic tradeoffs, and portfolio optimizations of diversification farm systems in a desert oasis of Northwest China. <i>Agroforestry Systems</i> , 2021, 95, 1703.	0.9	3
21	Stoichiometry of C:N:P in the Roots of <i>Alhagi sparsifolia</i> Is More Sensitive to Soil Nutrients Than Aboveground Organs. <i>Frontiers in Plant Science</i> , 2021, 12, 698961.	1.7	13
22	Negative effects of long-term exposure to salinity, drought, and combined stresses on halophyte <i>Halogeton glomeratus</i> . <i>Physiologia Plantarum</i> , 2021, 173, 2307-2322.	2.6	18
23	Topsoil Nutrients Drive Leaf Carbon and Nitrogen Concentrations of a Desert Phreatophyte in Habitats with Different Shallow Groundwater Depths. <i>Water (Switzerland)</i> , 2021, 13, 3093.	1.2	2
24	Intercropping Systems Modify Desert Plant-Associated Microbial Communities and Weaken Host Effects in a Hyper-Arid Desert. <i>Frontiers in Microbiology</i> , 2021, 12, 754453.	1.5	4
25	Water Supply Increases N Acquisition and N Resorption from Old Branches in the Leafless Shrub <i>Calligonum caput-medusae</i> at the Taklimakan Desert Margin. <i>Water (Switzerland)</i> , 2021, 13, 3288.	1.2	1
26	Effects of short-term nitrogen and phosphorus addition on leaf stoichiometry of a dominant alpine grass. <i>PeerJ</i> , 2021, 9, e12611.	0.9	3
27	Nitrogen application mitigates drought-induced metabolic changes in <i>Alhagi sparsifolia</i> seedlings by regulating nutrient and biomass allocation patterns. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 828-841.	2.8	36
28	Enhanced efficiency nitrogen fertilizers were not effective in reducing N <sub>2</sub> O emissions from a drip-irrigated cotton field in arid region of Northwestern China. <i>Science of the Total Environment</i> , 2020, 748, 141543.	3.9	23
29	Effects of straw mulching practices on soil nematode communities under walnut plantation. <i>Scientific Reports</i> , 2020, 10, 15351.	1.6	10
30	High biomass production with abundant leaf litterfall is critical to ameliorating soil quality and productivity in reclaimed sandy desertification land. <i>Journal of Environmental Management</i> , 2020, 263, 110373.	3.8	15
31	Agronomic evaluation of polymer-coated urea and urease and nitrification inhibitors for cotton production under drip-fertigation in a dry climate. <i>Scientific Reports</i> , 2020, 10, 1472.	1.6	5
32	Differential physio-biochemical and yield responses of <i>Camelina sativa</i> L. under varying irrigation water regimes in semi-arid climatic conditions. <i>PLoS ONE</i> , 2020, 15, e0242441.	1.1	8
33	Oasis microclimate effects under different weather events in arid or hyper arid regions: a case analysis in southern Taklimakan desert and implication for maintaining oasis sustainability. <i>Theoretical and Applied Climatology</i> , 2019, 137, 89-101.	1.3	21
34	Presence of spring-thaw N <sub>2</sub> O emissions are not linked to functional gene abundance in a drip-fertigated cropped soil in arid northwestern China. <i>Science of the Total Environment</i> , 2019, 695, 133670.	3.9	22
35	A Model-Based Real-Time Decision Support System for Irrigation Scheduling to Improve Water Productivity. <i>Agronomy</i> , 2019, 9, 686.	1.3	26
36	Climate change, water resources and sustainable development in the arid and semi-arid lands of Central Asia in the past 30 years. <i>Journal of Arid Land</i> , 2019, 11, 1-14.	0.9	76

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37	Relationship between soil profile accumulation and surface emission of N <sub>2</sub> O: effects of soil moisture and fertilizer nitrogen. <i>Biology and Fertility of Soils</i> , 2019, 55, 97-107.	2.3	50
38	Manure application increased denitrifying gene abundance in a drip-irrigated cotton field. <i>PeerJ</i> , 2019, 7, e7894.	0.9	14
39	Controlling Soil Factor in Plant Growth and Salt Tolerance of Leguminous Plant <i>Alhagi sparsifolia</i> Shap. in Saline Deserts, Northwest China. <i>Contemporary Problems of Ecology</i> , 2018, 11, 111-121.	0.3	11
40	Impact of drought on assimilates partitioning associated fruiting physiognomies and yield quality attributes of desert grown cotton. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	15
41	Soil property and cotton productivity changes with nutrient input intensity in the Taklimakan desert of China. <i>Arid Land Research and Management</i> , 2018, 32, 421-437.	0.6	8
42	Groundwater Depth Affects Phosphorus But Not Carbon and Nitrogen Concentrations of a Desert Phreatophyte in Northwest China. <i>Frontiers in Plant Science</i> , 2018, 9, 338.	1.7	16
43	Two ultraviolet radiation datasets that cover China. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 805-815.	1.9	20
44	Accumulation of heavy metals in native plants growing on mining-influenced sites in Jinchang: a typical industrial city (China). <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	21
45	Life span and structure of ephemeral root modules of different functional groups from a desert system. <i>New Phytologist</i> , 2016, 211, 103-112.	3.5	64
46	Effects of variability in landscape types on the microclimate across a desert "oasis region on the southern margins of the Tarim Basin, China. <i>Arid Land Research and Management</i> , 2016, 30, 89-104.	0.6	11
47	Reconstructing meteorological time series to quantify the uncertainties of runoff simulation in the ungauged Qira River Basin using data from multiple stations. <i>Theoretical and Applied Climatology</i> , 2016, 126, 61-76.	1.3	4
48	Quantification of Environmental Flow Requirements to Support Ecosystem Services of Oasis Areas: A Case Study in Tarim Basin, Northwest China. <i>Water (Switzerland)</i> , 2015, 7, 5657-5675.	1.2	18
49	Water but not photosynthates integration exists between mother and daughter ramets of a root-derived clonal shrub. <i>Plant Ecology</i> , 2015, 216, 331-342.	0.7	13
50	Optimal root system strategies for desert phreatophytic seedlings in the search for groundwater. <i>Journal of Arid Land</i> , 2015, 7, 462-474.	0.9	15
51	Characteristics of wind erosion and deposition in oasis-desert ecotone in southern margin of Tarim Basin, China. <i>Chinese Geographical Science</i> , 2014, 24, 658-673.	1.2	12
52	Characteristics of meteorological factors over different landscape types during dust storm events in Cele, Xinjiang, China. <i>Journal of Meteorological Research</i> , 2014, 28, 576-591.	0.9	14
53	Statistical analysis of the temporal stability of soil moisture in three desert regions of northwestern China. <i>Environmental Earth Sciences</i> , 2013, 70, 2249-2262.	1.3	9
54	Root characteristics of <i>Alhagi sparsifolia</i> seedlings in response to water supplement in an arid region, northwestern China. <i>Journal of Arid Land</i> , 2013, 5, 542-551.	0.9	12

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55	Responses of root growth of <i>Alhagi sparsifolia</i> Shap. (Fabaceae) to different simulated groundwater depths in the southern fringe of the Taklimakan Desert, China. <i>Journal of Arid Land</i> , 2013, 5, 220-232.	0.9	33
56	One-Year-Old Seedling Biomass Distribution and Root Architecture Characteristics Differed Between Two Desert Plants: <i>Tamarix ramosissima</i> and <i>Alhagi sparsifolia</i> . <i>Arid Land Research and Management</i> , 2013, 27, 298-302.	0.6	3
57	Leaf and whole tree adaptations to mild salinity in field grown <i>Populus euphratica</i> . <i>Tree Physiology</i> , 2009, 29, 1237-1246.	1.4	28
58	Effects of different management intensities on soil quality of farmland during oasis development in southern Tarim Basin, Xinjiang, China. <i>International Journal of Sustainable Development and World Ecology</i> , 2009, 16, 295-301.	3.2	19
59	Influence of floodwater irrigation on vegetation composition and vegetation regeneration in a Taklimakan desert oasis. <i>Science Bulletin</i> , 2008, 53, 156-163.	4.3	11
60	Growth, physiological characteristics and ion distribution of NaCl stressed <i>Alhagi sparsifolia</i> seedlings. <i>Science Bulletin</i> , 2008, 53, 169-176.	4.3	18
61	Water use by perennial plants in the transition zone between river oasis and desert in NW China. <i>Basic and Applied Ecology</i> , 2006, 7, 253-267.	1.2	63
62	Observation of Number Concentration of Desert Aerosols in the South of the Taklimakan Desert, China. <i>Journal of the Meteorological Society of Japan</i> , 2005, 83A, 31-43.	0.7	22
63	Size-Dependent Geochemical Characteristics of Asian Dust-Sr and Nd Isotope Compositions as Tracers for Source Identification-. <i>Journal of the Meteorological Society of Japan</i> , 2005, 83A, 107-120.	0.7	43
64	Measurements of Soil Water Content Using Time Domain Reflectometry Sensor and Water Vapor in Surface Soil at the Gobi Site in the Taklimakan Desert. <i>Journal of the Meteorological Society of Japan</i> , 2005, 83, 987-999.	0.7	4
65	Measurement of saltation process over gobi and sand dunes in the Taklimakan desert, China, with newly developed sand particle counter. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	55
66	An observational study of soil moisture effects on wind erosion at a gobi site in the Taklimakan Desert. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	71
67	Water relation characteristics of <i>Alhagi sparsifolia</i> and consequences for a sustainable management. <i>Science in China Series D: Earth Sciences</i> , 2002, 45, 125-131.	0.9	21