

# Changyan Tian

## List of Publications by Year in descending order

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49  
papers

799  
citations

516710

16  
h-index

580821

25  
g-index

49  
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49  
docs citations

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times ranked

1100  
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#	ARTICLE	IF	CITATIONS
1	Effects of salinity and nitrate on production and germination of dimorphic seeds applied both through the mother plant and exogenously during germination in <i>Suaeda salsa</i> . <i>Plant Species Biology</i> , 2016, 31, 19-28.	1.0	92
2	No significant nitrous oxide emissions during spring thaw under grazing and nitrogen addition in an alpine grassland. <i>Global Change Biology</i> , 2012, 18, 2546-2554.	9.5	59
3	Anaerobic Nitrate-Dependent Iron (II) Oxidation by a Novel Autotrophic Bacterium, <i>Citrobacter freundii</i> Strain PXL1. <i>Geomicrobiology Journal</i> , 2014, 31, 138-144.	2.0	59
4	Effects of drought and salt-stresses on gene expression in <i>Caragana korshinskii</i> seedlings revealed by RNA-seq. <i>BMC Genomics</i> , 2016, 17, 200.	2.8	47
5	Effects of NO <sub>3</sub> <sup>-</sup> -N on the growth and salinity tolerance of <i>Tamarix laxa</i> Willd. <i>Plant and Soil</i> , 2010, 331, 57-67.	3.7	38
6	Change in pan evaporation over the past 50 years in the arid region of China. <i>Hydrological Processes</i> , 2010, 24, 225-231.	2.6	37
7	Contrasting diurnal variations in soil organic carbon decomposition and root respiration due to a hysteresis effect with soil temperature in a <i>Gossypium s.</i> (cotton) plantation. <i>Plant and Soil</i> , 2011, 343, 347-355.	3.7	27
8	Ability of multicellular salt glands in <i>Tamarix</i> species to secrete Na <sup>+</sup> and K <sup>+</sup> selectively. <i>Science China Life Sciences</i> , 2011, 54, 282-289.	4.9	26
9	Heavy metal tolerance and potential for remediation of heavy metal-contaminated saline soils for the euhalophyte <i>Suaeda salsa</i> . <i>Plant Signaling and Behavior</i> , 2020, 15, 1805902.	2.4	26
10	A draft genome assembly of halophyte <i>Suaeda aralocaspica</i> , a plant that performs C4 photosynthesis within individual cells. <i>GigaScience</i> , 2019, 8, .	6.4	23
11	Evaluation of ecological sensitivity in Karamay, Xinjiang, China. <i>Journal of Chinese Geography</i> , 2012, 22, 329-345.	3.9	22
12	Effects of vertebral number variations on carcass traits and genotyping of Vertnin candidate gene in Kazakh sheep. <i>Asian-Australasian Journal of Animal Sciences</i> , 2017, 30, 1234-1238.	2.4	21
13	Greenhouse gas intensity and net annual global warming potential of cotton cropping systems in an extremely arid region. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 98, 15-26.	2.2	20
14	On-site growth response of a desert ephemeral plant, <i>Plantago minuta</i> , to indigenous arbuscular mycorrhizal fungi in a central Asia desert. <i>Symbiosis</i> , 2011, 55, 77-84.	2.3	19
15	Empirical models of calculating phreatic evaporation from bare soil in Tarim river basin, Xinjiang. <i>Environmental Earth Sciences</i> , 2009, 59, 663-668.	2.7	18
16	Subcellular distribution and chemical forms of lithium in Li-accumulator <i>Apocynum venetum</i> . <i>Plant Physiology and Biochemistry</i> , 2018, 132, 341-344.	5.8	18
17	Suitable scale of Weigan River plain oasis. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 56-64.	0.9	17
18	Lithium biofortification of medicinal tea <i>Apocynum venetum</i> . <i>Scientific Reports</i> , 2019, 9, 8182.	3.3	17

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19	Soil Salinity Dynamics under Drip Irrigation and Mulch Film and Their Effects on Cotton Root Length. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 1489-1502.	1.4	16
20	Characteristics of mineral elements in shoots of three annual halophytes in a saline desert, Northern Xinjiang. <i>Journal of Arid Land</i> , 2013, 5, 244-254.	2.3	13
21	Diversity of arbuscular mycorrhizal fungi associated with desert ephemerals growing under and beyond the canopies of Tamarisk shrubs. <i>Science Bulletin</i> , 2006, 51, 132-139.	1.7	11
22	Localized salt accumulation: the main reason for cotton root length decrease during advanced growth stages under drip irrigation with mulch film in a saline soil. <i>Journal of Arid Land</i> , 2014, 6, 361-370.	2.3	11
23	Root Morphology and Rhizosphere Characteristics Are Related to Salt Tolerance of <i>Suaeda salsa</i> and <i>Beta vulgaris</i> L.. <i>Frontiers in Plant Science</i> , 2021, 12, 677767.	3.6	11
24	Tolerance and accumulation of lithium in <i>Apocynum pictum</i> Schrenk. <i>PeerJ</i> , 2018, 6, e5559.	2.0	11
25	Soil moisture threshold in controlling above- and belowground community stability in a temperate desert of Central Asia. <i>Science of the Total Environment</i> , 2020, 703, 134650.	8.0	10
26	Theoretical analysis of the limiting rate of phreatic evaporation for aeolian sandy soil in Taklimakan Desert. <i>Science Bulletin</i> , 2008, 53, 119-124.	9.0	9
27	Increasing phosphorus concentration in the extraradical hyphae of <i>Rhizophagus irregularis</i> DAOM 197198 leads to a concomitant increase in metal minerals. <i>Mycorrhiza</i> , 2016, 26, 909-918.	2.8	9
28	Characteristics of soil seed banks at different geomorphic positions within the longitudinal sand dunes of the Gurbantunggut Desert, China. <i>Journal of Arid Land</i> , 2017, 9, 355-367.	2.3	9
29	Simultaneously maximizing root/mycorrhizal growth and phosphorus uptake by cotton plants by optimizing water and phosphorus management. <i>BMC Plant Biology</i> , 2018, 18, 334.	3.6	9
30	Models for calculating phreatic water evaporation on bare and Tamarix-vegetated lands. <i>Science Bulletin</i> , 2006, 51, 43-50.	1.7	8
31	Characteristics and dynamics of the soil seed bank at the north edge of Taklimakan Desert. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 122-127.	0.9	8
32	Biological mechanism of controlling cotton aphid (Homoptera: aphididae) by the marginal alfalfa zone surrounding cotton field. <i>Science Bulletin</i> , 2000, 45, 355-358.	1.7	7
33	Maternal effects on seed heteromorphism: a dual dynamic bet hedging strategy. <i>Seed Science Research</i> , 2019, 29, 149-153.	1.7	7
34	Arbuscular mycorrhizal associations in the Gurbantunggut Desert. <i>Science Bulletin</i> , 2006, 51, 140-146.	1.7	6
35	Crop yields and soil organic carbon dynamics in a long-term fertilization experiment in an extremely arid region of northern Xinjiang, China. <i>Journal of Arid Land</i> , 2017, 9, 345-354.	2.3	6
36	Storage Period and Different Abiotic Factors Regulate Seed Germination of Two <i>Apocynum</i> Species "Cash Crops in Arid Saline Regions in the Northwestern China. <i>Frontiers in Plant Science</i> , 2021, 12, 671157.	3.6	6

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37	The Effects of Suaeda salsa/Zea mays L. Intercropping on Plant Growth and Soil Chemical Characteristics in Saline Soil. <i>Agriculture (Switzerland)</i> , 2022, 12, 107.	3.1	6
38	Highly Arid Oasis Yield, Soil Mineral N Accumulation and N Balance in a Wheat-Cotton Rotation with Drip Irrigation and Mulching Film Management. <i>PLoS ONE</i> , 2016, 11, e0165404.	2.5	5
39	Salinity relief aniline induced oxidative stress in Suaeda salsa: Activities of antioxidative enzyme and EPR measurements. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111293.	6.0	5
40	NaCl Improves Suaeda salsa Aniline Tolerance in Wastewater. <i>Sustainability</i> , 2020, 12, 7457.	3.2	5
41	Diversity and zonal distribution of arbuscular mycorrhizal fungi on the northern slopes of the Tianshan Mountains. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 135-141.	0.9	4
42	The role of tamarisk in the spatial heterogeneity of soil resources in the northern Tarim Basin, Xinjiang, China. <i>Plant and Soil</i> , 2017, 420, 523-538.	3.7	4
43	Comparison of Efficiency-Enhanced Management and Conventional Management of Irrigation and Nitrogen Fertilization in Cotton Fields of Northwestern China. <i>Agriculture (Switzerland)</i> , 2021, 11, 1134.	3.1	4
44	Current situation and potential development of China's environmental management at the rural-urban interface. <i>International Journal of Sustainable Development and World Ecology</i> , 2011, 18, 265-271.	5.9	3
45	Transgenerational Effects of Maternal Water Condition on the Growth, C:N Stoichiometry and Seed Characteristics of the Desert Annual <i>Atriplex aucheri</i> . <i>Plants</i> , 2021, 10, 2362.	3.5	3
46	Large-scale de novo transcriptome analysis reveals specific gene expression and novel simple sequence repeats markers in salinized roots of the euhalophyte <i>Salicornia europaea</i> . <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	2.1	2
47	Nitrogen Removal Efficiency and Microbial Community Analysis of a High-Efficiency Honeycomb Fixed-Bed Bioreactor. <i>Water (Switzerland)</i> , 2020, 12, 1832.	2.7	2
48	Does cotton bollworm show cross-resistance to the <i>Bacillus thuringiensis</i> toxins Cry1Ac and Cry2Ab? A mini review. <i>Journal of Arid Land</i> , 2020, 12, 349-356.	2.3	2
49	Elevated CO <sub>2</sub> increases shoot growth but not root growth and C:N:P stoichiometry of Suaeda aralocaspica plants. <i>Journal of Arid Land</i> , 2021, 13, 1155-1162.	2.3	1