

Xiao-Dong Yang

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,172
citations

516710

16
h-index

414414

32
g-index

47
all docs

47
docs citations

47
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar modulates heavy metal toxicity and improves microbial carbon use efficiency in soil. <i>Science of the Total Environment</i> , 2018, 621, 148-159.	8.0	181
2	Machine learning-based detection of soil salinity in an arid desert region, Northwest China: A comparison between Landsat-8 OLI and Sentinel-2 MSI. <i>Science of the Total Environment</i> , 2020, 707, 136092.	8.0	130
3	Stand structural diversity rather than species diversity enhances aboveground carbon storage in secondary subtropical forests in Eastern China. <i>Biogeosciences</i> , 2016, 13, 4627-4635.	3.3	119
4	Ensemble machine-learning-based framework for estimating total nitrogen concentration in water using drone-borne hyperspectral imagery of emergent plants: A case study in an arid oasis, NW China. <i>Environmental Pollution</i> , 2020, 266, 115412.	7.5	67
5	Allometric biomass equations for shrub and small tree species in subtropical China. <i>Silva Fennica</i> , 2015, 49, .	1.3	60
6	Soil moisture and salinity as main drivers of soil respiration across natural xeromorphic vegetation and agricultural lands in an arid desert region. <i>Catena</i> , 2019, 177, 126-133.	5.0	48
7	Comparison of machine learning algorithms for soil salinity predictions in three dryland oases located in Xinjiang Uyghur Autonomous Region (XJUAR) of China. <i>European Journal of Remote Sensing</i> , 2019, 52, 256-276.	3.5	40
8	Modeling variations in soil salinity in the oasis of Junggar Basin, China. <i>Land Degradation and Development</i> , 2018, 29, 551-562.	3.9	38
9	Influence of Meteorological Factors on the COVID-19 Transmission with Season and Geographic Location. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 484.	2.6	35
10	Metagenomics analysis identifies nitrogen metabolic pathway in bioremediation of diesel contaminated soil. <i>Chemosphere</i> , 2021, 271, 129566.	8.2	32
11	Plant Trait-Species Abundance Relationships Vary with Environmental Properties in Subtropical Forests in Eastern China. <i>PLoS ONE</i> , 2013, 8, e61113.	2.5	28
12	Influence of edaphic factors on plant distribution and diversity in the arid area of Xinjiang, Northwest China. <i>Arid Land Research and Management</i> , 2018, 32, 38-56.	1.6	27
13	High Air Humidity Causes Atmospheric Water Absorption via Assimilating Branches in the Deep-Rooted Tree <i>Haloxylon ammodendron</i> in an Arid Desert Region of Northwest China. <i>Frontiers in Plant Science</i> , 2019, 10, 573.	3.6	24
14	Determining the effects of biotic and abiotic factors on the ecosystem multifunctionality in a desert-oasis ecotone. <i>Ecological Indicators</i> , 2021, 128, 107830.	6.3	24
15	Tree architecture varies with forest succession in evergreen broad-leaved forests in Eastern China. <i>Trees - Structure and Function</i> , 2015, 29, 43-57.	1.9	22
16	A meta-analysis result: Uneven influences of season, geo-spatial scale and latitude on relationship between meteorological factors and the COVID-19 transmission. <i>Environmental Research</i> , 2022, 212, 113297.	7.5	22
17	Higher association and integration among functional traits in small tree than shrub in resisting drought stress in an arid desert. <i>Environmental and Experimental Botany</i> , 2022, 201, 104993.	4.2	22
18	Bacterial community profile of the crude oil-contaminated saline soil in the Yellow River Delta Natural Reserve, China. <i>Chemosphere</i> , 2022, 289, 133207.	8.2	21

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19	Effects of Simulated Nitrogen Deposition on Soil Respiration in a <i>Populus euphratica</i> Community in the Ebinur Lake Area, a Desert Ecosystem of Northwestern China. <i>PLoS ONE</i> , 2015, 10, e0137827.	2.5	18
20	Flowering Phenology Shifts in Response to Functional Traits, Growth Form, and Phylogeny of Woody Species in a Desert Area. <i>Frontiers in Plant Science</i> , 2020, 11, 536.	3.6	18
21	Linking <i>Populus euphratica</i> Hydraulic Redistribution to Diversity Assembly in the Arid Desert Zone of Xinjiang, China. <i>PLoS ONE</i> , 2014, 9, e109071.	2.5	17
22	Prediction of groundwater depth in an arid region based on maximum tree height. <i>Journal of Hydrology</i> , 2019, 574, 46-52.	5.4	17
23	Experimental variations in functional and demographic traits of <i>Lappula semiglabra</i> among dew amount treatments in an arid region. <i>Ecohydrology</i> , 2017, 10, e1858.	2.4	15
24	Influence of soil microorganisms and physicochemical properties on plant diversity in an arid desert of Western China. <i>Journal of Forestry Research</i> , 2021, 32, 2645-2659.	3.6	15
25	Spatial and temporal mapping of cropland expansion in northwestern China with multisource remotely sensed data. <i>Catena</i> , 2019, 183, 104192.	5.0	13
26	Variability in plant trace element uptake across different crops, soil contamination levels and soil properties in the Xinjiang Uygur Autonomous Region of northwest China. <i>Scientific Reports</i> , 2021, 11, 2064.	3.3	13
27	Spatial-Temporal Changes and Driving Force Analysis of Green Space in Coastal Cities of Southeast China over the Past 20 Years. <i>Land</i> , 2021, 10, 537.	2.9	12
28	Spatial non-stationarity effects of driving factors on soil respiration in an arid desert region. <i>Catena</i> , 2021, 207, 105617.	5.0	11
29	Simultaneous determination of 20 disperse dyes in foodstuffs by ultra high performance liquid chromatography-tandem mass spectrometry. <i>Food Chemistry</i> , 2019, 300, 125183.	8.2	9
30	Evaluating the influencing factors of urbanization in the Xinjiang Uygur Autonomous Region over the past 27 years based on VIIRS-DNB and DMSP/OLS nightlight imageries. <i>PLoS ONE</i> , 2020, 15, e0235903.	2.5	9
31	Twig-leaf size relationships in woody plants vary intraspecifically along a soil moisture gradient. <i>Acta Oecologica</i> , 2014, 60, 17-25.	1.1	7
32	Assessing Matching Characteristics and Spatial Differences between Supply and Demand of Ecosystem Services: A Case Study in Hangzhou, China. <i>Land</i> , 2021, 10, 582.	2.9	7
33	Impacts of socio-economic determinants, spatial distance and climate factors on the confirmed cases and deaths of COVID-19 in China. <i>PLoS ONE</i> , 2021, 16, e0255229.	2.5	7
34	Influence of pH, electrical conductivity and ageing on the extractability of benzo[a]pyrene in two contrasting soils. <i>Science of the Total Environment</i> , 2019, 690, 647-653.	8.0	6
35	Comparisons of random forest and stochastic gradient treeboost algorithms for mapping soil electrical conductivity with multiple subsets using Landsat OLI and DEM/GIS-based data at a type oasis in Xinjiang, China. <i>European Journal of Remote Sensing</i> , 2021, 54, 158-181.	3.5	6
36	Effects of the ephemeral stream on plant species diversity and distribution in an alluvial fan of arid desert region: An application of a low altitude UAV. <i>PLoS ONE</i> , 2019, 14, e0212057.	2.5	5

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37	Relationship between Soil Fungi and Seedling Density in the Vicinity of Adult Conspecifics in an Arid Desert Forest. <i>Forests</i> , 2021, 12, 92.	2.1	4
38	Tree architecture of overlapping species among successional stages in evergreen broad-leaved forests in Tiantong region, Zhejiang Province, China. <i>Chinese Journal of Plant Ecology</i> , 2013, 37, 611-619.	0.6	4
39	Relationships between soil carbon pool and vegetation carbon return through succession of evergreen broad-leaved forests in Tiantong region, Zhejiang Province, Eastern China. <i>Chinese Journal of Plant Ecology</i> , 2014, 37, 803-810.	0.6	4
40	Biochar for Soil Water Conservation and Salinization Control in Arid Desert Regions. , 2019, , 161-168.		3
41	Twig size-number trade-off among woody plants in Tiantong region, Zhejiang Province of China. <i>Chinese Journal of Plant Ecology</i> , 2013, 36, 1268-1276.	0.6	3
42	The complete chloroplast genome of the spring ephemeral plant <i>Alyssum desertorum</i> and its implications for the phylogenetic position of the tribe Alyseae within the Brassicaceae. <i>Nordic Journal of Botany</i> , 2017, 35, 644-652.	0.5	2
43	Schrenk spruce leaf litter decomposition varies with snow depth in the Tianshan Mountains. <i>Scientific Reports</i> , 2020, 10, 19556.	3.3	2
44	Variability and association of leaf traits between current-year and former-year leaves in evergreen trees in Tiantong, Zhejiang, China. <i>Chinese Journal of Plant Ecology</i> , 2014, 37, 912-921.	0.6	2
45	Effects of Salinity and Oil Contamination on the Soil Seed Banks of Three Dominant Vegetation Communities in the Coastal Wetland of the Yellow River Delta. <i>Forests</i> , 2022, 13, 615.	2.1	1