## Jianwu Tang

# List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8377508/jianwu-tang-publications-by-year.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118 8,301 43 90 h-index g-index citations papers 6.6 9,708 127 5.9 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
118	Nitrogen removal by eutrophic coastal wetlands accomplished with CH4 emission reduction. <i>Journal of Cleaner Production</i> , <b>2022</b> , 332, 130082	10.3	O
117	Tidal influence on the relationship between solar-induced chlorophyll fluorescence and canopy photosynthesis in a coastal salt marsh. <i>Remote Sensing of Environment</i> , <b>2022</b> , 270, 112865	13.2	2
116	Responses of root phenology in ecotypes of Eriophorum vaginatum to transplantation and warming in the Arctic. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 149926	10.2	O
115	Landscape Genomics Provides Evidence of Ecotypic Adaptation and a Barrier to Gene Flow at Treeline for the Arctic Foundation Species <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 860439	6.2	
114	Building a Global Ecosystem Research Infrastructure to Address Global Grand Challenges for Macrosystem Ecology. <i>Earth Future</i> , <b>2022</b> , 10,	7.9	1
113	Global blue carbon accumulation in tidal wetlands increases with climate change. <i>National Science Review</i> , <b>2021</b> , 8, nwaa296	10.8	31
112	Variability of dissolved organic matter in two coastal wetlands along the Changjiang River Estuary: Responses to tidal cycles, seasons, and degradation processes. <i>Science of the Total Environment</i> , <b>2021</b> , 150993	10.2	О
111	ChinaSpec: A Network for Long-Term Ground-Based Measurements of Solar-Induced Fluorescence in China. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2021</b> , 126, e2020JG006042	3.7	5
110	Plant biomass and rates of carbon dioxide uptake are enhanced by successful restoration of tidal connectivity in salt marshes. <i>Science of the Total Environment</i> , <b>2021</b> , 750, 141566	10.2	4
109	Comparative transcriptomics of an arctic foundation species, tussock cottongrass (Eriophorum vaginatum), during an extreme heat event. <i>Scientific Reports</i> , <b>2020</b> , 10, 8990	4.9	3
108	Restoring wetlands outside of the seawalls and to provide clean water habitat. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137788	10.2	3
107	Arctic River Dissolved and Biogenic Silicon Exports Durrent Conditions and Future Changes With Warming. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, no	5.9	5
106	Enhanced Carbon Uptake and Reduced Methane Emissions in a Newly Restored Wetland. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005222	3.7	5
105	Conversion of coastal wetlands, riparian wetlands, and peatlands increases greenhouse gas emissions: A global meta-analysis. <i>Global Change Biology</i> , <b>2020</b> , 26, 1638-1653	11.4	37
104	Integrating cover crops with chicken grazing to improve soil nitrogen in rice fields and increase economic output. <i>Science of the Total Environment</i> , <b>2020</b> , 713, 135218	10.2	4
103	Comparison of total emitted solar-induced chlorophyll fluorescence (SIF) and top-of-canopy (TOC) SIF in estimating photosynthesis. <i>Remote Sensing of Environment</i> , <b>2020</b> , 251, 112083	13.2	13
102	Tidal effects on ecosystem CO2 exchange in a Phragmites salt marsh of an intertidal shoal. <i>Agricultural and Forest Meteorology</i> , <b>2020</b> , 292-293, 108108	5.8	2

### (2018-2020)

101	Carbon budget of the Harvard Forest Long-Term Ecological Research site: pattern, process, and response to global change. <i>Ecological Monographs</i> , <b>2020</b> , 90, e01423	9	26
100	Cover crops and chicken grazing in a winter fallow field improve soil carbon and nitrogen contents and decrease methane emissions. <i>Scientific Reports</i> , <b>2020</b> , 10, 12607	4.9	2
99	External carbon addition increases nitrate removal and decreases nitrous oxide emission in a restored wetland. <i>Ecological Engineering</i> , <b>2019</b> , 138, 200-208	3.9	9
98	Soil Warming Accelerates Biogeochemical Silica Cycling in a Temperate Forest. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1097	6.2	7
97	Advantage of multi-band solar-induced chlorophyll fluorescence to derive canopy photosynthesis in a temperate forest. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 279, 107691	5.8	6
96	Temperature sensitivity of soil carbon <b>2019</b> , 175-208		7
95	Differential responses of ecotypes to climate in a ubiquitous Arctic sedge: implications for future ecosystem C cycling. <i>New Phytologist</i> , <b>2019</b> , 223, 180-192	9.8	9
94	Water salinity and inundation control soil carbon decomposition during salt marsh restoration: An incubation experiment. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 1911-1921	2.8	15
93	Effects of cultivation techniques on CH4 emissions, net ecosystem production, and rice yield in a paddy ecosystem. <i>Atmospheric Pollution Research</i> , <b>2019</b> , 10, 274-282	4.5	4
92	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 1309-1320	12.3	150
91	Meteorological controls on evapotranspiration over a coastal salt marsh ecosystem under tidal influence. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 279, 107755	5.8	6
90	Tidal wetland resilience to sea level rise increases their carbon sequestration capacity in United States. <i>Nature Communications</i> , <b>2019</b> , 10, 5434	17.4	26
89	Investigations of relationships among aggregate pore structure, microbial biomass, and soil organic carbon in a Mollisol using combined non-destructive measurements and phospholipid fatty acid analysis. <i>Soil and Tillage Research</i> , <b>2019</b> , 185, 94-101	6.5	25
88	Foliar phosphorus fractions reveal how tropical plants maintain photosynthetic rates despite low soil phosphorus availability. <i>Functional Ecology</i> , <b>2019</b> , 33, 503-513	5.6	42
87	Potential of solar-induced chlorophyll fluorescence to estimate transpiration in a temperate forest. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 252, 75-87	5.8	35
86	Early stage litter decomposition across biomes. <i>Science of the Total Environment</i> , <b>2018</b> , 628-629, 1369-1	<b>394</b> 2	117
85	Coastal blue carbon: Concept, study method, and the application to ecological restoration. <i>Science China Earth Sciences</i> , <b>2018</b> , 61, 637-646	4.6	30
84	Effect of growth temperature on photosynthetic capacity and respiration in three ecotypes of. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 3711-3725	2.8	12

83	Stover retention rather than no-till decreases the global warming potential of rainfed continuous maize cropland. <i>Field Crops Research</i> , <b>2018</b> , 219, 14-23	5.5	18
82	Using canopy greenness index to identify leaf ecophysiological traits during the foliar senescence in an oak forest. <i>Ecosphere</i> , <b>2018</b> , 9, e02337	3.1	8
81	Comparison of Phenology Estimated from Reflectance-Based Indices and Solar-Induced Chlorophyll Fluorescence (SIF) Observations in a Temperate Forest Using GPP-Based Phenology as the Standard. <i>Remote Sensing</i> , <b>2018</b> , 10, 932	5	20
80	Seasonal patterns of canopy photosynthesis captured by remotely sensed sun-induced fluorescence and vegetation indexes in mid-to-high latitude forests: A cross-platform comparison. <i>Science of the Total Environment</i> , <b>2018</b> , 644, 439-451	10.2	10
79	Opportunities and challenges of applications of satellite-derived sun-induced fluorescence at relatively high spatial resolution. <i>Science of the Total Environment</i> , <b>2018</b> , 619-620, 649-653	10.2	21
78	A Robust Calibration Method for Continental-Scale Soil Water Content Measurements. <i>Vadose Zone Journal</i> , <b>2018</b> , 17, 1-19	2.7	8
77	Contributions of photosynthetic organs to the seed yield of hybrid rice: the effects of gibberellin application examined by carbon isotope technology. <i>Seed Science and Technology</i> , <b>2018</b> , 46, 533-546	0.6	6
76	Environmental controls on light inhibition of respiration and leaf and canopy daytime carbon exchange in a temperate deciduous forest. <i>Tree Physiology</i> , <b>2018</b> , 38, 1886-1902	4.2	8
75	Passive experimental warming decouples air and sediment temperatures in a salt marsh. <i>Limnology and Oceanography: Methods</i> , <b>2018</b> , 16, 640-648	2.6	2
74	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , <b>2018</b> , 9, 593-609	4.8	23
73	Performance of Solar-Induced Chlorophyll Fluorescence in Estimating Water-Use Efficiency in a Temperate Forest. <i>Remote Sensing</i> , <b>2018</b> , 10, 796	5	3
72	Environmental Controls, Emergent Scaling, and Predictions of Greenhouse Gas (GHG) Fluxes in Coastal Salt Marshes. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2234-2256	3.7	23
71	Extreme rainfall and snowfall alter responses of soil respiration to nitrogen fertilization: a 3-year field experiment. <i>Global Change Biology</i> , <b>2017</b> , 23, 3403-3417	11.4	28
70	Tropical forest restoration: Fast resilience of plant biomass contrasts with slow recovery of stable soil C stocks. <i>Functional Ecology</i> , <b>2017</b> , 31, 2344-2355	5.6	25
69	A novel combined recirculating treatment system for intensive marine aquaculture. <i>Aquaculture Research</i> , <b>2017</b> , 48, 5062-5071	1.9	3
68	Chlorophyll fluorescence tracks seasonal variations of photosynthesis from leaf to canopy in a temperate forest. <i>Global Change Biology</i> , <b>2017</b> , 23, 2874-2886	11.4	88
67	Aerial photography based census of Adlle Penguin and its application in CH and NO budget estimation in Victoria Land, Antarctic. <i>Scientific Reports</i> , <b>2017</b> , 7, 12942	4.9	7
66	Restoring tides to reduce methane emissions in impounded wetlands: A new and potent Blue Carbon climate change intervention. <i>Scientific Reports</i> , <b>2017</b> , 7, 11914	4.9	86

### (2015-2017)

65	Ecotypic differences in the phenology of the tundra species reflect sites of origin. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 9775-9786	2.8	13
64	Seasonal variations of leaf and canopy properties tracked by ground-based NDVI imagery in a temperate forest. <i>Scientific Reports</i> , <b>2017</b> , 7, 1267	4.9	43
63	Traditional symbiotic farming technology in China promotes the sustainability of a flooded rice production system. <i>Sustainability Science</i> , <b>2017</b> , 12, 155-161	6.4	14
62	The value of soil respiration measurements for interpreting and modeling terrestrial carbon cycling. <i>Plant and Soil</i> , <b>2017</b> , 413, 1-25	4.2	60
61	Ecosystem fluxes of hydrogen in a mid-latitude forest driven by soil microorganisms and plants. <i>Global Change Biology</i> , <b>2017</b> , 23, 906-919	11.4	11
60	Biogenic silica accumulation varies across tussock tundra plant functional type. <i>Functional Ecology</i> , <b>2017</b> , 31, 2177-2187	5.6	8
59	Model-based analysis of the relationship between sun-induced chlorophyll fluorescence and gross primary production for remote sensing applications. <i>Remote Sensing of Environment</i> , <b>2016</b> , 187, 145-155	5 <sup>13.2</sup>	139
58	Temperature response of soil respiration largely unaltered with experimental warming.  Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13797-13802	11.5	206
57	The foliar spray of Rhodopseudomonas palustris grown under Stevia residue extract promotes plant growth via changing soil microbial community. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 916-923	3.4	21
56	Nutrient limitation of woody debris decomposition in a tropical forest: contrasting effects of N and P addition. <i>Functional Ecology</i> , <b>2016</b> , 30, 295-304	5.6	40
55	Experimental warming-driven soil drying reduced N2O emissions from fertilized crop rotations of winter wheatBoybean/fallow, 2009\( \text{D014}\). Agriculture, Ecosystems and Environment, <b>2016</b> , 219, 71-82	5.7	25
54	Evaluation of laser-based spectrometers for greenhouse gas flux measurements in coastal marshes. <i>Limnology and Oceanography: Methods</i> , <b>2016</b> , 14, 466-476	2.6	25
53	Carbon dioxide fluxes reflect plant zonation and belowground biomass in a coastal marsh. <i>Ecosphere</i> , <b>2016</b> , 7, e01560	3.1	29
52	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. <i>Ecology Letters</i> , <b>2016</b> , 19, 697-709	10	128
51	Seasonal variability of multiple leaf traits captured by leaf spectroscopy at two temperate deciduous forests. <i>Remote Sensing of Environment</i> , <b>2016</b> , 179, 1-12	13.2	84
50	Emerging opportunities and challenges in phenology: a review. <i>Ecosphere</i> , <b>2016</b> , 7, e01436	3.1	144
49	Enhancement of nitrate removal at the sediment-water interface by carbon addition plus vertical mixing. <i>Chemosphere</i> , <b>2015</b> , 136, 305-10	8.4	12
48	Short-term drought response of N2O and CO2 emissions from mesic agricultural soils in the US Midwest. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 212, 127-133	5.7	30

47	Solar-induced chlorophyll fluorescence that correlates with canopy photosynthesis on diurnal and seasonal scales in a temperate deciduous forest. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 2977-2987	4.9	303
46	Effects of experimental warming and nitrogen addition on soil respiration and CH4 fluxes from crop rotations of winter wheatBoybean/fallow. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 207, 38-47	5.8	43
45	Accelerated phosphorus accumulation and acidification of soils under plastic greenhouse condition in four representative organic vegetable cultivation sites. <i>Scientia Horticulturae</i> , <b>2015</b> , 195, 67-73	4.1	17
44	Seasonal and interannual variations of carbon exchange over a rice-wheat rotation system on the North China Plain. <i>Advances in Atmospheric Sciences</i> , <b>2015</b> , 32, 1365-1380	2.9	16
43	Relationship between leaf physiologic traits and canopy color indices during the leaf expansion period in an oak forest. <i>Ecosphere</i> , <b>2015</b> , 6, art259	3.1	16
42	Response of plant nutrient stoichiometry to fertilization varied with plant tissues in a tropical forest. <i>Scientific Reports</i> , <b>2015</b> , 5, 14605	4.9	35
41	Consequence of altered nitrogen cycles in the coupled human and ecological system under changing climate: The need for long-term and site-based research. <i>Ambio</i> , <b>2015</b> , 44, 178-93	6.5	49
40	Soil respiration under climate warming: differential response of heterotrophic and autotrophic respiration. <i>Global Change Biology</i> , <b>2014</b> , 20, 3229-37	11.4	177
39	Steeper declines in forest photosynthesis than respiration explain age-driven decreases in forest growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 885	56 <sup>-11</sup> 0 <sup>5</sup>	79
38	Phosphorus Availability and Sorption as Affected by Long-Term Fertilization. <i>Agronomy Journal</i> , <b>2014</b> , 106, 1583-1592	2.2	12
37	Impacts of rice varieties and management on yield-scaled greenhouse gas emissions from rice fields in China: A meta-analysis. <i>Biogeosciences</i> , <b>2014</b> , 11, 3685-3693	4.6	23
36	Beyond leaf color: Comparing camera-based phenological metrics with leaf biochemical, biophysical, and spectral properties throughout the growing season of a temperate deciduous forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 181-191	3.7	95
35	Nitrous oxide (N2O) emissions in response to increasing fertilizer addition in maize (Zea mays L.) agriculture in western Kenya. <i>Nutrient Cycling in Agroecosystems</i> , <b>2014</b> , 100, 177-187	3.3	37
34	Ecosystem fluxes of hydrogen: a comparison of flux-gradient methods. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2787-2805	4	14
33	Aggregate-Associated Organic Carbon and Nitrogen Impacted by the Long-Term Application of Fertilizers, Rice Straw, and Pig Manure. <i>Soil Science</i> , <b>2014</b> , 179, 522-528	0.9	6
32	Linking Spatial Pattern and Biophysical Parameters of Urban Vegetation by Multitemporal Landsat Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2013</b> , 10, 1263-1267	4.1	2
31	Ecosystem-level controls on root-rhizosphere respiration. New Phytologist, 2013, 199, 339-51	9.8	140
30	Using long-term ecosystem service and biodiversity data to study the impacts and adaptation options in response to climate change: insights from the global ILTER sites network. <i>Current Opinion in Environmental Sustainability</i> , <b>2013</b> , 5, 53-66	7.2	33

### (2007-2013)

29	Diel patterns of autotrophic and heterotrophic respiration among phenological stages. <i>Global Change Biology</i> , <b>2013</b> , 19, 1151-9	11.4	85
28	Regional-scale phenology modeling based on meteorological records and remote sensing observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		67
27	Heterotrophic respiration in disturbed forests: A review with examples from North America. Journal of Geophysical Research, <b>2011</b> , 116,		111
26	Simulating the impacts of disturbances on forest carbon cycling in North America: Processes, data, models, and challenges. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		98
25	Biophysical control of whole tree transpiration under an urban environment in Northern China. <i>Journal of Hydrology</i> , <b>2011</b> , 402, 388-400	6	89
24	Short-term nitrogen additions can shift a coastal wetland from a sink to a source of N2O. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 4390-4397	5.3	98
23	Greening China naturally. Ambio, <b>2011</b> , 40, 828-31	6.5	70
22	Soil warming, carbon-nitrogen interactions, and forest carbon budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9508-12	11.5	357
21	Root standing crop and chemistry after six years of soil warming in a temperate forest. <i>Tree Physiology</i> , <b>2011</b> , 31, 707-17	4.2	41
20	Reduction of forest soil respiration in response to nitrogen deposition. <i>Nature Geoscience</i> , <b>2010</b> , 3, 315-	·3 <b>12</b> 523	988
19	Soil CO<sub>2</sub> efflux of a larch forest in northern Japan. <i>Biogeosciences</i> , <b>2010</b> , 7, 3447	-3,4657	38
18	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO2 production and efflux <b>2010</b> , 20, 1569-82		108
17	Soil respiration at mean annual temperature predicts annual total across vegetation types and biomes. <i>Biogeosciences</i> , <b>2010</b> , 7, 2147-2157	4.6	87
16	Soil carbon fluxes and stocks in a Great Lakes forest chronosequence. <i>Global Change Biology</i> , <b>2009</b> , 15, 145-155	11.4	83
15	Influence of vegetation and seasonal forcing on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 288-308	5.8	95
14	Intercomparison of sugar maple (Acer saccharum Marsh.) stand transpiration responses to environmental conditions from the Western Great Lakes Region of the United States. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 231-246	5.8	43
13	Ecosystem respiration and its components in an old-growth forest in the Great Lakes region of the United States. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 171-185	5.8	81
12	CO2 balance of boreal, temperate, and tropical forests derived from a global database. <i>Global Change Biology</i> , <b>2007</b> , 13, 2509-2537	11.4	744

11	Influences of canopy photosynthesis and summer rain pulses on root dynamics and soil respiration in a young ponderosa pine forest. <i>Tree Physiology</i> , <b>2006</b> , 26, 833-44	4.2	66
10	How switches and lags in biophysical regulators affect spatial-temporal variation of soil respiration in an oak-grass savanna. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		116
9	Sap flux pscaled canopy transpiration, stomatal conductance, and water use efficiency in an old growth forest in the Great Lakes region of the United States. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		88
8	Influences of recovery from clear-cut, climate variability, and thinning on the carbon balance of a young ponderosa pine plantation. <i>Agricultural and Forest Meteorology</i> , <b>2005</b> , 130, 207-222	5.8	102
7	Continuous measurements of soil respiration with and without roots in a ponderosa pine plantation in the Sierra Nevada Mountains. <i>Agricultural and Forest Meteorology</i> , <b>2005</b> , 132, 212-227	5.8	131
6	Tree photosynthesis modulates soil respiration on a diurnal time scale. <i>Global Change Biology</i> , <b>2005</b> , 11, 1298-1304	11.4	388
5	SpatialEemporal variation in soil respiration in an oakBrass savanna ecosystem in California and its partitioning into autotrophic and heterotrophic components. <i>Biogeochemistry</i> , <b>2005</b> , 73, 183-207	3.8	237
4	Forest thinning and soil respiration in a ponderosa pine plantation in the Sierra Nevada. <i>Tree Physiology</i> , <b>2005</b> , 25, 57-66	4.2	136
3	How soil moisture, rain pulses, and growth alter the response of ecosystem respiration to temperature. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	308
2	Assessing soil CO2 efflux using continuous measurements of CO2 profiles in soils with small solid-state sensors. <i>Agricultural and Forest Meteorology</i> , <b>2003</b> , 118, 207-220	5.8	256
1	Intra-specific variation in phenology offers resilience to climate change for Eriophorum vaginatum.  Arctic Science,	2.2	3