

# Zhen-Ming Ge

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1171219/publications.pdf>

Version: 2024-02-01

63  
papers

1,371  
citations

279798

23  
h-index

414414

32  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of coastal wetlands, riparian wetlands, and peatlands increases greenhouse gas emissions: A global meta-analysis. <i>Global Change Biology</i> , 2020, 26, 1638-1653.	9.5	89
2	Vulnerability assessment of the coastal wetlands in the Yangtze Estuary, China to sea-level rise. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 156, 42-51.	2.1	64
3	Surface Water and Groundwater Interactions in Salt Marshes and Their Impact on Plant Ecology and Coastal Biogeochemistry. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	61
4	Zooming in and out: Scale dependence of extrinsic and intrinsic factors affecting salt marsh erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1455-1470.	2.8	50
5	Effects of elevated CO <sub>2</sub> and temperature on leaf characteristics, photosynthesis and carbon storage in aboveground biomass of a boreal bioenergy crop ( <i>Phalaris arundinacea</i> L.) under varying water regimes. <i>GCB Bioenergy</i> , 2011, 3, 223-234.	5.6	40
6	Future vegetation patterns and primary production in the coastal wetlands of East China under sea level rise, sediment reduction, and saltwater intrusion. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1923-1940.	3.0	39
7	Responses of eastern Chinese coastal salt marshes to sea-level rise combined with vegetative and sedimentary processes. <i>Scientific Reports</i> , 2016, 6, 28466.	3.3	39
8	Acclimation of photosynthesis in a boreal grass ( <i>Phalaris arundinacea</i> L.) under different temperature, CO <sub>2</sub> , and soil water regimes. <i>Photosynthetica</i> , 2012, 50, 141-151.	1.7	36
9	Multi-scale temporal variation of methane flux and its controls in a subtropical tidal salt marsh in eastern China. <i>Biogeochemistry</i> , 2018, 137, 163-179.	3.5	36
10	Impacts of changing climate on the productivity of Norway spruce dominant stands with a mixture of Scots pine and birch in relation to water availability in southern and northern Finland. <i>Tree Physiology</i> , 2011, 31, 323-338.	3.1	35
11	Evaluation of the combined threat from sea-level rise and sedimentation reduction to the coastal wetlands in the Yangtze Estuary, China. <i>Ecological Engineering</i> , 2014, 71, 346-354.	3.6	35
12	The shaping role of self-organization: linking vegetation patterning, plant traits and ecosystem functioning. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182859.	2.6	34
13	Plant invasion impacts on the gross and net primary production of the salt marsh on eastern coast of China: Insights from leaf to ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 169-186.	3.0	33
14	Ecophysiological response of native and exotic salt marsh vegetation to waterlogging and salinity: Implications for the effects of sea-level rise. <i>Scientific Reports</i> , 2018, 8, 2441.	3.3	32
15	A process-based grid model for the simulation of range expansion of <i>Spartina alterniflora</i> on the coastal saltmarshes in the Yangtze Estuary. <i>Ecological Engineering</i> , 2013, 58, 105-112.	3.6	31
16	Responses of leaf photosynthesis, pigments and chlorophyll fluorescence within canopy position in a boreal grass ( <i>Phalaris arundinacea</i> L.) to elevated temperature and CO <sub>2</sub> under varying water regimes. <i>Photosynthetica</i> , 2011, 49, 172-184.	1.7	30
17	Socio-economic vulnerability of the megacity of Shanghai (China) to sea-level rise and associated storm surges. <i>Regional Environmental Change</i> , 2016, 16, 1443-1456.	2.9	30
18	Elevated salinity and inundation will facilitate the spread of invasive <i>Spartina alterniflora</i> in the Yangtze River Estuary, China. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 506, 144-154.	1.5	29

#	ARTICLE	IF	CITATIONS
19	Effects of changing climate on water and nitrogen availability with implications on the productivity of Norway spruce stands in Southern Finland. <i>Ecological Modelling</i> , 2010, 221, 1731-1743.	2.5	28
20	Native and non-native halophytes resiliency against sea-level rise and saltwater intrusion. <i>Hydrobiologia</i> , 2018, 806, 47-65.	2.0	27
21	Revegetation of a native species in a newly formed tidal marsh under varying hydrological conditions and planting densities in the Yangtze Estuary. <i>Ecological Engineering</i> , 2015, 83, 354-363.	3.6	26
22	Effects of salinity on temperature-dependent photosynthetic parameters of a native <i>Cyperus alternifolius</i> and a non-native <i>Phragmites australis</i> marsh grass in the Yangtze Estuary, China. <i>Photosynthetica</i> , 2014, 52, 484-492.	1.7	25
23	Vulnerability assessment of the coastal mangrove ecosystems in Guangxi, China, to sea-level rise. <i>Regional Environmental Change</i> , 2015, 15, 265-275.	2.9	24
24	Carbon assimilation and allocation ( <sup>13</sup> C labeling) in a boreal perennial grass ( <i>Phalaris arundinacea</i> ) subjected to elevated temperature and CO <sub>2</sub> through a growing season. <i>Environmental and Experimental Botany</i> , 2012, 75, 150-158.	4.2	23
25	Impacts of climate change on primary production and carbon sequestration of boreal Norway spruce forests: Finland as a model. <i>Climatic Change</i> , 2013, 118, 259-273.	3.6	23
26	Evaluation of the threat from sea-level rise to the mangrove ecosystems in Tieshangang Bay, southern China. <i>Ocean and Coastal Management</i> , 2015, 109, 1-8.	4.4	22
27	Climate, canopy conductance and leaf area development controls on evapotranspiration in a boreal coniferous forest over a 10-year period: A united model assessment. <i>Ecological Modelling</i> , 2011, 222, 1626-1638.	2.5	21
28	Spatiotemporal Dynamics of Salt Marsh Vegetation regulated by Plant Invasion and Abiotic Processes in the Yangtze Estuary: Observations with a Modeling Approach. <i>Estuaries and Coasts</i> , 2015, 38, 310-324.	2.2	21
29	Ecosystem-based coastal zone management: A comprehensive assessment of coastal ecosystems in the Yangtze Estuary coastal zone. <i>Ocean and Coastal Management</i> , 2014, 95, 63-71.	4.4	20
30	Soil carbon and nitrogen storage in recently restored and mature native <i>Scirpus</i> marshes in the Yangtze Estuary, China: Implications for restoration. <i>Ecological Engineering</i> , 2017, 104, 150-157.	3.6	20
31	Methane Emissions from Estuarine Coastal Wetlands: Implications for Global Change Effect. <i>Soil Science Society of America Journal</i> , 2019, 83, 1368-1377.	2.2	20
32	Effects of climate change on evapotranspiration and soil water availability in Norway spruce forests in southern Finland: an ecosystem model based approach. <i>Ecohydrology</i> , 2013, 6, 51-63.	2.4	18
33	Do short-term increases in river and sediment discharge determine the dynamics of coastal mudflat and vegetation in the Yangtze Estuary?. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 220, 176-184.	2.1	18
34	Spatiotemporal patterns of the gross primary production in the salt marshes with rapid community change: A coupled modeling approach. <i>Ecological Modelling</i> , 2016, 321, 110-120.	2.5	17
35	Evaluation of carbon exchange in a boreal coniferous stand over a 10-year period: An integrated analysis based on ecosystem model simulations and eddy covariance measurements. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 191-203.	4.8	15
36	Seasonal physiological responses and biomass growth in a bioenergy crop ( <i>Phalaris arundinacea</i> L.) under elevated temperature and CO <sub>2</sub> , subjected to different water regimes in boreal conditions. <i>Bioenergy Research</i> , 2012, 5, 637-648.	3.9	15

#	ARTICLE	IF	CITATIONS
37	Multi-objective environment chamber system for studying plant responses to climate change. <i>Photosynthetica</i> , 2012, 50, 24-34.	1.7	15
38	The importance of the propaguleâ€“sedimentâ€“tide â€œpower balanceâ€œ for revegetation at the coastal frontier. <i>Ecological Applications</i> , 2019, 29, e01967.	3.8	14
39	The role of seasonal vegetation properties in determining the wave attenuation capacity of coastal marshes: Implications for building natural defenses. <i>Ecological Engineering</i> , 2022, 175, 106494.	3.6	14
40	Effects of varying thinning regimes on carbon uptake, total stem wood growth, and timber production in Norway spruce ( <i>Picea abies</i> ) stands in southern Finland under the changing climate. <i>Annals of Forest Science</i> , 2011, 68, 371-383.	2.0	13
41	Adaptive management to climate change for Norway spruce forests along a regional gradient in Finland. <i>Climatic Change</i> , 2013, 118, 275-289.	3.6	13
42	The roles of vegetation, tide and sediment in the variability of carbon in the salt marsh dominated tidal creeks. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 239, 106752.	2.1	13
43	Reclamation-induced tidal restriction increases dissolved carbon and greenhouse gases diffusive fluxes in salt marsh creeks. <i>Science of the Total Environment</i> , 2021, 773, 145684.	8.0	13
44	Seasonal change and habitat selection of shorebird community at the South Yangtze River Mouth and North Hangzhou Bay, China. <i>Acta Ecologica Sinica</i> , 2006, 26, 40-47.	1.9	12
45	Combined influence of sedimentation and vegetation on the soil carbon stocks of a coastal wetland in the Changjiang estuary. <i>Chinese Journal of Oceanology and Limnology</i> , 2017, 35, 833-843.	0.7	12
46	Salinity Affects Topsoil Organic Carbon Concentrations Through Regulating Vegetation Structure and Productivity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005217.	3.0	12
47	Image-based machine learning for monitoring the dynamics of the largest salt marsh in the Yangtze River Delta. <i>Journal of Hydrology</i> , 2022, 608, 127681.	5.4	11
48	Growth Responses of Boreal Scots Pine, Norway Spruce and Silver Birch Seedlings to Simulated Climate Warming over Three Growing Seasons in a Controlled Field Experiment. <i>Forests</i> , 2020, 11, 943.	2.1	10
49	Measured and modeled biomass growth in relation to photosynthesis acclimation of a bioenergy crop (Reed canary grass) under elevated temperature, CO <sub>2</sub> enrichment and different water regimes. <i>Biomass and Bioenergy</i> , 2012, 46, 251-262.	5.7	9
50	Effects of waterlogging and increased salinity on microbial communities and extracellular enzyme activity in native and exotic marsh vegetation soils. <i>Soil Science Society of America Journal</i> , 2020, 84, 82-98.	2.2	9
51	Effects of waterlogging and salinity increase on CO <sub>2</sub> efflux in soil from coastal marshes. <i>Applied Soil Ecology</i> , 2022, 170, 104268.	4.3	9
52	The impacts of biotic and abiotic interaction on the spatial pattern of salt marshes in the Yangtze Estuary, China. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 238, 106717.	2.1	8
53	Changes in the spatial distribution of migratory shorebirds along the Shanghai shoreline, China, between 1984 and 2004. <i>Emu</i> , 2007, 107, 19-27.	0.6	7
54	Tidal effects on ecosystem CO <sub>2</sub> exchange in a <i>Phragmites</i> salt marsh of an intertidal shoal. <i>Agricultural and Forest Meteorology</i> , 2020, 292-293, 108108.	4.8	7

#	ARTICLE	IF	CITATIONS
55	Response of a salt marsh plant to sediment deposition disturbance. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 237, 106695.	2.1	7
56	Morphological and reproductive responses of coastal pioneer sedge vegetation to inundation intensity. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 244, 106945.	2.1	6
57	Coupling <i>Scirpus</i> recruitment with <i>Spartina</i> control guarantees recolonization of native sedges in coastal wetlands. <i>Ecological Engineering</i> , 2021, 166, 106246.	3.6	6
58	Sea-level rise will reduce net CO <sub>2</sub> uptake in subtropical coastal marshes. <i>Science of the Total Environment</i> , 2020, 747, 141214.	8.0	5
59	Interactions between biotic and abiotic processes determine biogeomorphology in Yangtze Estuary coastal marshes: Observation with a modeling approach. <i>Geomorphology</i> , 2021, 395, 107970.	2.6	5
60	Use of wetlands at the mouth of the Yangtze River by shorebirds during spring and fall migration. <i>Journal of Field Ornithology</i> , 2006, 77, 347-356.	0.5	4
61	Impacts of elevated temperature and CO <sub>2</sub> with varying groundwater levels on seasonality of height and biomass growth of a boreal bioenergy crop ( <i>Phalaris arundinacea</i> ) – a modeling study. <i>Botany</i> , 2013, 91, 260-272.	1.0	4
62	Effects of Elevated CO <sub>2</sub> and Temperature on Biomass Growth and Allocation in a Boreal Bioenergy Crop ( <i>Phalaris arundinacea</i> L.) from Young and Old Cultivations. <i>Bioenergy Research</i> , 2013, 6, 651-662.	3.9	3
63	Carrying capacity for shorebirds during migratory seasons at the Jiuduansha Wetland, Yangtze River Estuary, China. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2008, 3, 536-542.	0.2	1