

Dan Zhu

List of Publications by Year in descending order

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38
papers

2,361
citations

331670

21
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

3202
citing authors

#	ARTICLE	IF	CITATIONS
1	The impacts of climate change and human activities on biogeochemical cycles on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2013, 19, 2940-2955.	9.5	670
2	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie</i> , 2017, 129, 1881-1884.	2.0	252
3	Methane emissions from the surface of the Three Gorges Reservoir. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	150
4	DNA nanotechnology-enabled biosensors. <i>Biosensors and Bioelectronics</i> , 2016, 76, 68-79.	10.1	147
5	The carbon stock of alpine peatlands on the Qinghai-Tibetan Plateau during the Holocene and their future fate. <i>Quaternary Science Reviews</i> , 2014, 95, 151-158.	3.0	118
6	Clicking DNA to gold nanoparticles: poly-adenine-mediated formation of monovalent DNA-gold nanoparticle conjugates with nearly quantitative yield. <i>NPG Asia Materials</i> , 2015, 7, e159-e159.	7.9	107
7	Effects of soil warming, rainfall reduction and water table level on CH ₄ emissions from the Zoige peatland in China. <i>Soil Biology and Biochemistry</i> , 2014, 78, 83-89.	8.8	104
8	Methane emissions from newly created marshes in the drawdown area of the Three Gorges Reservoir. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	97
9	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , 2016, 28, 6860-6865.	21.0	79
10	A novel ultrasensitive electrochemical DNA sensor based on double tetrahedral nanostructures. <i>Biosensors and Bioelectronics</i> , 2015, 71, 434-438.	10.1	61
11	Predominance of Precipitation and Temperature Controls on Ecosystem CO ₂ Exchange in Zoige Alpine Wetlands of Southwest China. <i>Wetlands</i> , 2011, 31, 413-422.	1.5	59
12	High methane emissions from a littoral zone on the Qinghai-Tibetan Plateau. <i>Atmospheric Environment</i> , 2009, 43, 4995-5000.	4.1	50
13	Qinghai-tibetan plateau peatland sustainable utilization under anthropogenic disturbances and climate change. <i>Ecosystem Health and Sustainability</i> , 2017, 3, .	3.1	40
14	Poly-adenine-based programmable engineering of gold nanoparticles for highly regulated spherical DNAzymes. <i>Nanoscale</i> , 2015, 7, 18671-18676.	5.6	38
15	Water table drawdown shapes the depth-dependent variations in prokaryotic diversity and structure in Zoige peatlands. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	33
16	Responses of peat carbon at different depths to simulated warming and oxidizing. <i>Science of the Total Environment</i> , 2016, 548-549, 429-440.	8.0	32
17	Soil properties and species composition under different grazing intensity in an alpine meadow on the eastern Tibetan Plateau, China. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 678.	2.7	31
18	Intense methane ebullition from open water area of a shallow peatland lake on the eastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2016, 542, 57-64.	8.0	30

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19	Environmental factors driving fungal distribution in freshwater lake sediments across the Headwater Region of the Yellow River, China. <i>Scientific Reports</i> , 2018, 8, 3768.	3.3	30
20	Multiple Amplified Electrochemical Detection of MicroRNA-21 Using Hierarchical Flower-like Gold Nanostructures Combined with Gold-enriched Hybridization Chain Reaction. <i>Electroanalysis</i> , 2018, 30, 1349-1356.	2.9	23
21	Five-Year Measurements of Net Ecosystem CO ₂ Exchange at a Fen in the Zoige Peatlands on the Qinghai-Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11803-11818.	3.3	22
22	Rare Earth Core/Shell Nanobarcodes for Multiplexed Trace Biodetection. <i>Analytical Chemistry</i> , 2015, 87, 5745-5752.	6.5	19
23	Archaeal communities in the sediments of different mangrove stands at Dongzhaigang, China. <i>Journal of Soils and Sediments</i> , 2016, 16, 1995-2004.	3.0	18
24	Assessment of frozen ground organic carbon pool on the Qinghai-Tibet Plateau. <i>Journal of Soils and Sediments</i> , 2019, 19, 128-139.	3.0	18
25	Nitrous Oxide Emissions from Newly Created Littoral Marshes in the Drawdown Area of the Three Gorges Reservoir, China. <i>Water, Air, and Soil Pollution</i> , 2010, 211, 25-33.	2.4	17
26	High Carbon Dioxide Evasion from an Alpine Peatland Lake: The Central Role of Terrestrial Dissolved Organic Carbon Input. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2563-2569.	2.4	16
27	Methane emissions during different freezing-thawing periods from a fen on the Qinghai-Tibetan Plateau: Four years of measurements. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108279.	4.8	16
28	Structure and distribution of nitrite-dependent anaerobic methane oxidation bacteria vary with water tables in Zoige peatlands. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	14
29	Aftermath of the Wenchuan earthquake. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 72-72.	4.0	11
30	How do water table drawdown, duration of drainage, and warming influence greenhouse gas emissions from drained peatlands of the Zoige Plateau?. <i>Land Degradation and Development</i> , 2021, 32, 3351-3364.	3.9	11
31	Methane emissions respond to soil temperature in convergent patterns but divergent sensitivities across wetlands along altitude. <i>Global Change Biology</i> , 2021, 27, 941-955.	9.5	10
32	Protein-mimicking nanoparticle (Protmin)-based nanosensor for intracellular analysis of metal ions. <i>Nuclear Science and Techniques/Hewuli</i> , 2018, 29, 1.	3.4	8
33	Spatiotemporal Variations in Nitrous Oxide Emissions from an Open Fen on the Qinghai-Tibetan Plateau: a 3-Year Study. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 6025-6034.	2.4	7
34	Effect of Grazing Intensities on Soil N ₂ O Emissions from an Alpine Meadow of Zoige Plateau in China. <i>Atmosphere</i> , 2021, 12, 541.	2.3	7
35	A comparative study of daytime-based methane emission from two wetlands of Nepal Himalaya. <i>Atmospheric Environment</i> , 2015, 106, 196-203.	4.1	5
36	Holocene peatland development and carbon stock of Zoige peatlands, Tibetan Plateau: a modeling approach. <i>Journal of Soils and Sediments</i> , 2018, 18, 2032-2043.	3.0	5

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37	The Effects of Freeze–Thaw Cycles on Methane Emissions From Peat Soils of a High-Altitude Peatland. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	5
38	Seasonal and interannual dynamics of water vapor flux at a fen in the Zoige peatlands on the Qinghai–Tibetan Plateau: four-year measurements. <i>Journal of Hydrology</i> , 2022, 612, 128058.	5.4	1