Zhao Jin

List of Publications by Year in descending order

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63 papers	2,544 citations	159585 30 h-index	197818 49 g-index
64 all docs	64 docs citations	64 times ranked	2707 citing authors

#	Article	IF	Citations
1	Preferentially Engineering FeN₄ Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Znâ€“Air Batteries. Advanced Materials, 2020, 32, e2004900.	21.0	235
2	Bridge Bonded Oxygen Ligands between Approximated FeN₄ Sites Confer Catalysts with High ORR Performance. Angewandte Chemie - International Edition, 2020, 59, 13923-13928.	13.8	176
3	Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. Global Change Biology, 2017, 23, 1328-1337.	9.5	154
4	Reactant friendly hydrogen evolution interface based on di-anionic MoS2 surface. Nature Communications, 2020, 11, 1116.	12.8	108
5	Natural vegetation restoration is more beneficial to soil surface organic and inorganic carbon sequestration than tree plantation on the Loess Plateau of China. Science of the Total Environment, 2014, 485-486, 615-623.	8.0	91
6	Precise Molecularâ€Level Modification of Nafion with Bismuth Oxide Clusters for Highâ€performance Protonâ€Exchange Membranes. Angewandte Chemie - International Edition, 2021, 60, 6076-6085.	13.8	86
7	COâ€Tolerant PEMFC Anodes Enabled by Synergistic Catalysis between Iridium Singleâ€Atom Sites and Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 26177-26183.	13.8	81
8	Carbon and nitrogen pools in Chinese fir and evergreen broadleaved forests and changes associated with felling and burning in mid-subtropical China. Forest Ecology and Management, 2005, 216, 216-226.	3.2	78
9	Recent anthropogenic curtailing of Yellow River runoff and sediment load is unprecedented over the past 500 y. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18251-18257.	7.1	77
10	Separating Vegetation Greening and Climate Change Controls on Evapotranspiration trend over the Loess Plateau. Scientific Reports, 2017, 7, 8191.	3.3	72
11	Revegetation has increased ecosystem water-use efficiency during 2000â€“2014 in the Chinese Loess Plateau: Evidence from satellite data. Ecological Indicators, 2019, 102, 507-518.	6.3	68
12	Soil moisture response to rainfall on the <scp>Chinese Loess Plateau</scp> after a longâ€term vegetation rehabilitation. Hydrological Processes, 2018, 32, 1738-1754.	2.6	67
13	How Many Check Dams Do We Need To Build on the Loess Plateau?. Environmental Science & Technology, 2012, 46, 8527-8528.	10.0	64
14	Valley reshaping and damming induce water table rise and soil salinization on the Chinese Loess Plateau. Geoderma, 2019, 339, 115-125.	5.1	63
15	Complex anthropogenic interaction on vegetation greening in the Chinese Loess Plateau. Science of the Total Environment, 2021, 778, 146065.	8.0	57
16	Soil Organic Carbon Stocks in Deep Soils at a Watershed Scale on the Chinese Loess Plateau. Soil Science Society of America Journal, 2016, 80, 157-167.	2.2	55
17	Quantification of the ecosystem carrying capacity on Chinaâ€™s Loess Plateau. Ecological Indicators, 2019, 101, 192-202.	6.3	51
18	Soil N retention and nitrate leaching in three types of dunes in the Mu Us desert of China. Scientific Reports, 2015, 5, 14222.	3.3	48

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19	Litter production, seasonal pattern and nutrient return in seven natural forests compared with a plantation in southern China. Forestry, 2005, 78, 403-415.	2.3	47
20	Development and evolution of Loess vertical joints on the Chinese Loess Plateau at different spatiotemporal scales. Engineering Geology, 2020, 265, 105372.	6.3	44
21	The creation of farmland by gully filling on the Loess Plateau: a double-edged sword. Environmental Science & Technology, 2014, 48, 883-884.	10.0	40
22	Bridge Bonded Oxygen Ligands between Approximated FeN₄ Sites Confer Catalysts with High ORR Performance. Angewandte Chemie, 2020, 132, 14027-14032.	2.0	40
23	Stabilized Pt Cluster-Based Catalysts Used as Low-Loading Cathode in Proton-Exchange Membrane Fuel Cells. ACS Energy Letters, 2020, 5, 3021-3028.	17.4	39
24	Nanocluster PtNiP supported on graphene as an efficient electrocatalyst for methanol oxidation reaction. Nano Research, 2021, 14, 2853-2860.	10.4	39
25	A Study on the Streamflow Change and its Relationship with Climate Change and Ecological Restoration Measures in a Sediment Concentrated Region in the Loess Plateau, China. Water Resources Management, 2015, 29, 4045-4060.	3.9	38
26	The genesis, development, and evolution of original vertical joints in loess. Earth-Science Reviews, 2021, 214, 103526.	9.1	38
27	CHARACTERIZING VARIATIONS IN SOIL PARTICLEâ€SIZE DISTRIBUTION ALONG A GRASSâ€“DESERT SHRUB TRANSITION IN THE ORDOS PLATEAU OF INNER MONGOLIA, CHINA. Land Degradation and Development, 2013, 24, 141-146.	3.9	37
28	Divergent spatial responses of plant and ecosystem water-use efficiency to climate and vegetation gradients in the Chinese Loess Plateau. Global and Planetary Change, 2019, 181, 102995.	3.5	37
29	Exploring the role of land restoration in the spatial patterns of deep soil water at watershed scales. Catena, 2019, 172, 387-396.	5.0	35
30	Proton exchange membrane fuel cells powered with both CO and H ₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
31	Storm runoff generation in headwater catchments on the Chinese Loess Plateau after long-term vegetation rehabilitation. Science of the Total Environment, 2020, 748, 141375.	8.0	32
32	Spatial Heterogeneity of Soil Nutrients and Respiration in the Desertified Grasslands of Inner Mongolia, China. Pedosphere, 2010, 20, 655-665.	4.0	27
33	TePbPt alloy nanotube as electrocatalyst with enhanced performance towards methanol oxidation reaction. Journal of Materials Chemistry A, 2018, 6, 16798-16803.	10.3	25
34	Precipitation Pulses and Soil CO2 Emission in Desert Shrubland of Artemisia ordosica on the Ordos Plateau of Inner Mongolia, China. Pedosphere, 2009, 19, 799-807.	4.0	24
35	Boosting Both Electrocatalytic Activity and Durability of Metal Aerogels via Intrinsic Hierarchical Porosity and Continuous Conductive Network Backbone Preservation. Advanced Energy Materials, 2021, 11, 2002276.	19.5	24
36	Late Cenozoic Climate Change in Monsoon-Arid Asia and Global Changes. Developments in Paleoenvironmental Research, 2014, , 491-581.	8.0	22

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37	Comparing watershed black locust afforestation and natural revegetation impacts on soil nitrogen on the Loess Plateau of China. Scientific Reports, 2016, 6, 25048.	3.3	21
38	Effects of valley reshaping and damming on surface and groundwater nitrate on the Chinese Loess Plateau. Journal of Hydrology, 2020, 584, 124702.	5.4	19
39	Tuning the oxidation state of Ru to surpass Pt in hydrogen evolution reaction. Nano Research, 2021, 14, 4321-4327.	10.4	19
40	The Clustering of Severe Dust Storm Occurrence in China From 1958 to 2007. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8035-8046.	3.3	18
41	Intensive land restoration profoundly alters the spatial and seasonal patterns of deep soil water storage at watershed scales. Agriculture, Ecosystems and Environment, 2019, 280, 129-141.	5.3	18
42	Storage of biomass and net primary productivity in desert shrubland of Artemisia ordosica on Ordos Plateau of Inner Mongolia, China. Journal of Forestry Research, 2007, 18, 298-300.	3.6	16
43	Precise Molecularâ€Level Modification of Nafion with Bismuth Oxide Clusters for Highâ€performance Protonâ€Exchange Membranes. Angewandte Chemie, 2021, 133, 6141-6150.	2.0	16
44	Soil respiration and net primary productivity in perennial grass and desert shrub ecosystems at the Ordos Plateau of Inner Mongolia, China. Journal of Arid Environments, 2010, 74, 1248-1256.	2.4	14
45	Micro-topographic assessment of rill morphology highlights the shortcomings of current protective measures in loess landscapes. Science of the Total Environment, 2020, 737, 139721.	8.0	14
46	Diurnal and seasonal dynamics of soil respiration in desert shrubland of Artemisia Ordosica on Ordos Plateau of Inner Mongolia, China. Journal of Forestry Research, 2007, 18, 231-235.	3.6	13
47	Stable isotope analysis of soil and plant water in a pair of natural grassland and understory of planted forestland on the Chinese Loess Plateau. Agricultural Water Management, 2021, 249, 106800.	5.6	13
48	Effects of afforestation on soil and ambient air temperature in a pair of catchments on the Chinese Loess Plateau. Catena, 2019, 175, 356-366.	5.0	12
49	The critical mechanics of the initiation of loess flow failure and implications for landslides. Engineering Geology, 2021, 288, 106165.	6.3	12
50	Seasonal patterns of soil respiration in three types of communities along grass-desert shrub transition in Inner Mongolia, China. Advances in Atmospheric Sciences, 2009, 26, 503-512.	4.3	11
51	Micro Galvanic Cell To Generate PtO and Extend the Triple-Phase Boundary during Self-Assembly of Pt/C and Nafion for Catalyst Layers of PEMFC. ACS Applied Materials & Interfaces, 2017, 9, 38165-38169.	8.0	11
52	Effects of Topography on Planted Trees in a Headwater Catchment on the Chinese Loess Plateau. Forests, 2021, 12, 792.	2.1	9
53	Global Isotopic Hydrograph Separation Research History and Trends: A Text Mining and Bibliometric Analysis Study. Water (Switzerland), 2021, 13, 2529.	2.7	9
54	COâ€Tolerant PEMFC Anodes Enabled by Synergistic Catalysis between Iridium Singleâ€Atom Sites and Nanoparticles. Angewandte Chemie, 2021, 133, 26381.	2.0	9

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55	Differences in soil water and nutrients under catchment afforestation and natural restoration shape herbaceous communities on the Chinese Loess Plateau. Forest Ecology and Management, 2022, 505, 119925.	3.2	8
56	Rill development and its change rate: a field experiment under constant rainfall intensity. Catena, 2021, 199, 105112.	5.0	7
57	Soil pH changes in a small catchment on the Chinese Loess Plateau after long-term vegetation rehabilitation. Ecological Engineering, 2022, 175, 106503.	3.6	7
58	Soil heterotrophic respiration in Casuarina equisetifolia plantation at different stand ages. Journal of Forestry Research, 2009, 20, 301-306.	3.6	6
59	Soil quality assessment in different dammed-valley farmlands in the hilly-gully mountain areas of the northern Loess Plateau, China. Journal of Arid Land, 2021, 13, 777-789.	2.3	4
60	Spatial variation and soil nitrogen potential hotspots in a mixed land cover catchment on the Chinese Loess Plateau. Journal of Mountain Science, 2019, 16, 1353-1366.	2.0	3
61	The complete chloroplast genome of Potentilla chinensis. Mitochondrial DNA Part B: Resources, 2020, 5, 1180-1181.	0.4	1
62	Nickel Phosphide Coated with Ultrathin Nitrogen Doped Carbon Shell as a Highly Durable and Active Catalyst towards Hydrogen Evolution Reaction. Chemistry - an Asian Journal, 2022, , .	3.3	1
63	Spatiotemporal soil water storage variation comparison between newly formed and untreated gully land sites under a land restoration project and associated implications on land management. Ecological Engineering, 2022, 180, 106670.	3.6	1