Hucai Zhang

List of Publications by Year
in descending order

51 papers	1,192 citations	430874 18 h-index	414414 32 g-index
51 all docs	51 docs citations	51 times ranked	1027 citing authors

#	Article	IF	Citations
1	Whole-genome resequencing reveals world-wide ancestry and adaptive introgression events of domesticated cattle in East Asia. Nature Communications, 2018, 9, 2337.	12.8	253
2	A Core Logging, Machine Learning and Geostatistical Modeling Interactive Approach for Subsurface Imaging of Lenticular Geobodies in a Clastic Depositional System, SE Pakistan. Natural Resources Research, 2021, 30, 2807-2830.	4.7	91
3	The deep population history of northern East Asia from the Late Pleistocene to the Holocene. Cell, 2021, 184, 3256-3266.e13.	28.9	83
4	Application of Unconventional Seismic Attributes and Unsupervised Machine Learning for the Identification of Fault and Fracture Network. Applied Sciences (Switzerland), 2020, 10, 3864.	2.5	61
5	Vegetation and climate history inferred from a Qinghai Crater Lake pollen record from Tengchong, southwestern China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 461, 1-11.	2.3	50
6	Paleoclimate changes of the last 1000 yr on the eastern Qinghaiâ€“Tibetan Plateau recorded by elemental, isotopic, and molecular organic matter proxies in sediment from glacial Lake Ximencuo. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 379-380, 39-53.	2.3	46
7	Atomic-dispersed copper simultaneously achieve high-efficiency removal and high-value-added conversion to ammonia of nitrate in sewage. Journal of Hazardous Materials, 2022, 424, 127319.	12.4	43
8	Diatom-based inference of Asian monsoon precipitation from a volcanic lake in southwest China for the last 18.5 ka. Quaternary Science Reviews, 2018, 182, 109-120.	3.0	41
9	Sustainability Perspective-Oriented Synthetic Strategy for Zinc Single-Atom Catalysts Boosting Electrocatalytic Reduction of Carbon Dioxide and Oxygen. ACS Sustainable Chemistry and Engineering, 2020, 8, 13813-13822.	6.7	35
10	Sedimentary Facies Controls for Reservoir Quality Prediction of Lower Shihezi Member-1 of the Hangjinqi Area, Ordos Basin. Minerals (Basel, Switzerland), 2022, 12, 126.	2.0	30
11	Climatic and environmental implications from n-alkanes in glacially eroded lake sediments in Tibetan Plateau: An example from Ximen Co. Science Bulletin, 2011, 56, 1503-1510.	1.7	29
12	Climate variability recorded by n-alkanes of paleolake sediment in Qaidam Basin on the northeast Tibetan Plateau in late MIS3. Science China Earth Sciences, 2010, 53, 863-870.	5.2	26
13	A Review and Perspective of eDNA Application to Eutrophication and HAB Control in Freshwater and Marine Ecosystems. Microorganisms, 2020, 8, 417.	3.6	22
14	Branched aliphatic alkanes of shell bar section in Qarhan Lake, Qaidam Basin and their paleoclimate significance. Science Bulletin, 2007, 52, 1248-1256.	1.7	21
15	Atom-dispersed copper and nano-palladium in the boron-carbon-nitrogen matric cooperate to realize the efficient purification of nitrate wastewater and the electrochemical synthesis of ammonia. Journal of Hazardous Materials, 2022, 434, 128909.	12.4	21
16	10Be in quartz gravel from the Gobi Desert and evolutionary history of alluvial sedimentation in the Ejina Basin, Inner Mongolia, China. Science Bulletin, 2010, 55, 3802-3809.	1.7	20
17	Organic matter geochemical signatures of sediments of Lake Ngoring (Qinghai-Tibetan Plateau): A record of environmental and climatic changes in the source area of the Yellow River for the last 1500Âyears. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 551, 109729.	2.3	20
18	Effect of different DOM components on arsenate complexation in natural water. Environmental Pollution, 2021, 270, 116221.	7.5	20

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19	Long-range transport of aeolian deposits during the last 32Âkyr inferred from rare earth elements and grain-size analysis of sediments from Lake Lugu, Southwestern China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 567, 110248.	2.3	20
20	Trends in Diatom Research Since 1991 Based on Topic Modeling. Microorganisms, 2019, 7, 213.	3.6	19
21	Soft-templated mesoporous carbon-modified glassy carbon electrode for sensitive and selective detection of aristolochic acids. Journal of Hazardous Materials, 2020, 385, 121550.	12.4	18
22	Genomic analyses reveal distinct genetic architectures and selective pressures in buffaloes. GigaScience, 2020, 9, .	6.4	18
23	Pd nanocrystals embedded in BC2N for efficient electrochemical conversion of nitrate to ammonia. Applied Surface Science, 2022, 584, 152556.	6.1	18
24	Application of Corrected Methods for High-Resolution XRF Core Scanning Elements in Lake Sediments. Applied Sciences (Switzerland), 2020, 10, 8012.	2.5	13
25	A high-resolution late Pleistocene record of pollen vegetation and climate change from Jingning, NW China. Science in China Series D: Earth Sciences, 2006, 49, 154-162.	0.9	12
26	Phytoplankton responses to solar UVR and its combination with nutrient enrichment in a plateau oligotrophic Lake Fuxian: a mesocosm experiment. Environmental Science and Pollution Research, 2021, 28, 29931-29944.	5.3	12
27	Plateau lake ecological response to environmental change during the last 60 years: a case study from freshwater Lake Yangzong, SW China. Journal of Soils and Sediments, 2021, 21, 1550-1562.	3.0	12
28	Recent Advances and Perspectives on the Sources and Detection of Antibiotics in Aquatic Environments. Journal of Analytical Methods in Chemistry, 2022, 2022, 1-14.	1.6	12
29	Chronology of the shell bar section and a discussion on the ages of the Late Pleistocene lacustrine deposits in the paleolake Qarhan, Qaidam basin. Frontiers of Earth Science, 2008, 2, 225-235.	0.5	10
30	Isotopic constraints on sources of organic matter and environmental change in Lake Yangzong, Southwest China. Journal of Asian Earth Sciences, 2021, 217, 104845.	2.3	10
31	In-situ responses of phytoplankton to graphene photocatalysis in the eutrophic lake Xingyun, southwestern China. Chemosphere, 2021, 278, 130489.	8.2	10
32	Isotopic constraints on sources of organic matter in surface sediments from two northâ€“south oriented lakes of the Yunnan Plateau, Southwest China. Journal of Soils and Sediments, 2022, 22, 1597-1608.	3.0	10
33	Seasonal Variation and Spatial Heterogeneity of Water Quality Parameters in Lake Chenghai in Southwestern China. Water (Switzerland), 2022, 14, 1640.	2.7	10
34	Contamination and eco-risk assessment of toxic trace elements in lakebed surface sediments of Lake Yangzong, southwestern China. Science of the Total Environment, 2022, 843, 157031.	8.0	10
35	eDNA revealed in situ microbial community changes in response to Trapa japonica in Lake Qionghai and Lake Erhai, southwestern China. Chemosphere, 2022, 288, 132605.	8.2	9
36	The Accumulation and Transformation of Heavy Metals in Sediments of Liujiang River Basin in Southern China and Their Threatening on Water Security. International Journal of Environmental Research and Public Health, 2022, 19, 1619.	2.6	8

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37	Prehistoric firewood gathering on the northeast Tibetan plateau: environmental and cultural determinism. Vegetation History and Archaeobotany, 2022, 31, 431-441.	2.1	7
38	Geochemical record of rapid climate change and chemical weathering in a semi-arid area, northeastern Tibetan Plateau. Geosciences Journal, 2020, 24, 723-732.	1.2	5
39	Distribution and health-ecological risk assessment of heavy metals: an endemic disease case study in southwestern China. Environmental Science and Pollution Research, 2022, 29, 4260-4275.	5.3	5
40	The Bioaccumulation and Health Risk Assessment of Metals among Two Most Consumed Species of Angling Fish (Cyprinus carpio and Pseudohemiculter dispar) in Liuzhou (China): Winter Should Be Treated as a Suitable Season for Fish Angling. International Journal of Environmental Research and Public Health, 2022, 19, 1519.	2.6	5
41	OSL and AMS 14C Age of the Most Complete Mammoth Fossil Skeleton from Northeastern China and its Paleoclimate Significance. Radiocarbon, 2019, 61, 347-358.	1.8	4
42	Tributary Loadings and Their Impacts on Water Quality of Lake Xingyun, a Plateau Lake in Southwest China. Water (Switzerland), 2022, 14, 1281.	2.7	4
43	Detecting anthropogenic impact on forest succession from the perspective of wood exploitation on the northeast Tibetan Plateau during the late prehistoric period. Science China Earth Sciences, 2022, 65, 2068-2082.	5.2	4
44	n-alkane distribution coupled with organic carbon isotope composition in the shell bar section, Qarhan paleolake, Qaidam basin, NE Tibetan Plateau. Frontiers of Earth Science, 2009, 3, 327-335.	0.5	3
45	Potential catastrophic water outflow from Lake Dian, China: Possible hydrological and ecological risks. Catena, 2021, 207, 105589.	5.0	3
46	Multiple Factors Affecting the Historical Development of Agriculture in the Hei River Basin, Northwestern China. Environmental Archaeology, 0, , 1-11.	1.2	3
47	The effect of graphene photocatalysis on microbial communities in Lake Xingyun, southwestern China. Environmental Science and Pollution Research, 2022, 29, 48851-48868.	5.3	3
48	An updated chronology and paleoenvironmental background for the Paleolithic Loufangzi site, North China. Journal of Human Evolution, 2021, 152, 102948.	2.6	2
49	A 10Âka intentionally deformed human skull from Northeast Asia. International Journal of Osteoarchaeology, 2022, 32, 932-937.	1.2	1
50	Elemental geochemistry and paleoenvironment evolution of Shell Bar section at Qarhan in the Qaidam Basin, China. , 2011, , .		0
51	How Human Subsistence Strategy Affected Fruit-Tree Utilization During the Late Neolithic and Bronze Age: Investigations in the Northeastern Tibetan Plateau. Frontiers in Plant Science, 0, 13, .	3.6	0