

Chun-Lai Zhang

List of Publications by Year in descending order

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46
papers

916
citations

516710

16
h-index

477307

29
g-index

48
all docs

48
docs citations

48
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative assessment of the relative roles of climate change and human activities in desertification processes on the Qinghai-Tibet Plateau based on net primary productivity. <i>Catena</i> , 2016, 147, 789-796.	5.0	156
2	The distribution of velocity and energy of saltating sand grains in a wind tunnel. <i>Geomorphology</i> , 2001, 36, 155-165.	2.6	117
3	Monitoring of aeolian desertification on the Qinghai-Tibet Plateau from the 1970s to 2015 using Landsat images. <i>Science of the Total Environment</i> , 2018, 619-620, 1648-1659.	8.0	79
4	Spatial variation of topsoil features in soil wind erosion areas of northern China. <i>Catena</i> , 2018, 167, 429-439.	5.0	42
5	Statistical characteristics of wind erosion events in the erosion area of Northern China. <i>Catena</i> , 2018, 167, 399-410.	5.0	41
6	Aerodynamic roughness of cultivated soil and its influences on soil erosion by wind in a wind tunnel. <i>Soil and Tillage Research</i> , 2004, 75, 53-59.	5.6	35
7	Cogitation on developing a dynamic model of soil wind erosion. <i>Science China Earth Sciences</i> , 2015, 58, 462-473.	5.2	31
8	Characteristics of particle size for creeping and saltating sand grains in aeolian transport. <i>Sedimentology</i> , 2015, 62, 1497-1511.	3.1	30
9	Sediment grain size characteristics and relevant correlations to the aeolian environment in China's eastern desert region. <i>Science of the Total Environment</i> , 2018, 627, 586-599.	8.0	29
10	Probability distribution functions for the initial liftoff velocities of saltating sand grains in air. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	28
11	The geomorphology and evolution of aeolian landforms within a river valley in a semi-humid environment: A case study from Mainling Valley, Qinghai-Tibet Plateau. <i>Geomorphology</i> , 2014, 224, 27-38.	2.6	22
12	Developing trend of aeolian desertification in China's Tibet Autonomous Region from 1977 to 2010. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	21
13	Experimental Investigation on Shear-Stress Partitioning for Flexible Plants with Approximately Zero Basal-to-Frontal Area Ratio in a Wind Tunnel. <i>Boundary-Layer Meteorology</i> , 2018, 169, 251-273.	2.3	21
14	Spatial heterogeneity of surface sediment grain size and aeolian activity in the gobi desert region of northwest China. <i>Catena</i> , 2020, 188, 104469.	5.0	21
15	Ecophysiological Responses of Three Tree Species to a High-Altitude Environment in the Southeastern Tibetan Plateau. <i>Forests</i> , 2018, 9, 48.	2.1	20
16	Spatial pattern of grain-size distribution in surface sediments as a result of variations in the aeolian environment in China's Shapotou railway protective system. <i>Aeolian Research</i> , 2011, 3, 295-302.	2.7	19
17	Experimental Investigation of the Aerodynamic Roughness Length for Flexible Plants. <i>Boundary-Layer Meteorology</i> , 2019, 172, 397-416.	2.3	19
18	The effect of wind speed averaging time on sand transport estimates. <i>Catena</i> , 2019, 175, 286-293.	5.0	15

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19	Comparison of dust emission ability of sand desert, gravel desert (Gobi), and farmland in northern China. <i>Catena</i> , 2021, 201, 105215.	5.0	15
20	Grain size characteristics of aeolian sands and their implications for the aeolian dynamics of dunefields within a river valley on the southern Tibet Plateau: A case study from the Yarlung Zangbo river valley. <i>Catena</i> , 2021, 196, 104794.	5.0	12
21	Intermittency of aeolian saltation. <i>European Physical Journal E</i> , 2014, 37, 126.	1.6	11
22	Effects of ridge height and spacing on the near-surface airflow field and on wind erosion of a sandy soil: Results of a wind tunnel study. <i>Soil and Tillage Research</i> , 2019, 186, 94-104.	5.6	11
23	Grain-size distribution of surface sediments of climbing and falling dunes in the Zedang valley of the Yarlung Zangbo River, southern Tibetan plateau. <i>Journal of Earth System Science</i> , 2019, 128, 1.	1.3	11
24	Grain size distribution at four developmental stages of crescent dunes in the hinterland of the Taklimakan Desert, China. <i>Journal of Arid Land</i> , 2016, 8, 722-733.	2.3	9
25	Dust fall and biological soil crust distribution as indicators of the aeolian environment in China's Shapotou railway protective system. <i>Catena</i> , 2014, 114, 107-118.	5.0	8
26	Sand flux and wind profiles in the saltation layer above a rounded dune top. <i>Science China Earth Sciences</i> , 2014, 57, 523-533.	5.2	8
27	Field observations of sand flux and dust emission above a gobi desert surface. <i>Journal of Soils and Sediments</i> , 2021, 21, 1815-1825.	3.0	8
28	Forces on a saltating grain in air. <i>European Physical Journal E</i> , 2013, 36, 112.	1.6	7
29	Wind tunnel tests of the dynamic processes that control wind erosion of a sand bed. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 614-623.	2.5	7
30	Abrasion of soil clods with different textures and moisture contents in sand flow environment. <i>Aeolian Research</i> , 2020, 46, 100614.	2.7	6
31	A general model for predicting aeolian transport rate over sand surfaces with vegetation cover. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2471-2482.	2.5	6
32	Wind tunnel investigation of horizontal and vertical sand fluxes of ascending and descending sand particles in aeolian sand transport. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1647-1657.	2.5	5
33	The effect of wind speed averaging time on the study of soil wind erosion on typical land surfaces. <i>Aeolian Research</i> , 2022, 54, 100763.	2.7	5
34	Coherent structures over flat sandy surfaces in aeolian environment. <i>Catena</i> , 2017, 159, 144-148.	5.0	4
35	Unsteady aeolian saltation. <i>European Physical Journal E</i> , 2018, 41, 121.	1.6	4
36	Application of a new wind driving force model in soil wind erosion area of northern China. <i>Journal of Arid Land</i> , 2020, 12, 423-435.	2.3	4

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37	A modified Raupach's model applicable for shear stress partitioning on surfaces covered with dense and flat-shaped gravel roughness elements. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 907-920.	2.5	4
38	A model of the sand transport rate that accounts for temporal evolution of the bed. <i>Geomorphology</i> , 2021, 378, 107616.	2.6	4
39	A comparison of the aerodynamic characteristics of four kinds of land surface in wind erosion areas of northern China. <i>Catena</i> , 2022, 212, 106112.	5.0	4
40	Influence of dust storms on atmospheric particulate pollution and acid rain in northern China. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 297-306.	3.3	3
41	Studying the spatial and temporal changes in aeolian sand transport in a wind tunnel using 3D terrestrial laser scanning. <i>European Journal of Soil Science</i> , 2020, 71, 898-908.	3.9	3
42	A modified aeolian flux model applicable for various soil particle characteristics. <i>Catena</i> , 2022, 212, 106042.	5.0	3
43	The varying fetch effect of aeolian sand transport above a gobi surface and its implication for gobi development process. <i>International Soil and Water Conservation Research</i> , 2022, 10, 623-634.	6.5	3
44	Effect of transverse ridge microtopography on the surface shear stress distribution and soil wind erosion. <i>Soil and Tillage Research</i> , 2020, 198, 104548.	5.6	2
45	Field investigation of the fetch effect and essential conditions for saturated sand flow. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2299-2309.	2.5	2
46	Separating emitted dust from the total suspension in airflow based on the characteristics of PM10 vertical concentration profiles on a Gobi surface in northwestern China. <i>Journal of Arid Land</i> , 0, , .	2.3	1