

# Ke-cun Zhang

## List of Publications by Year in descending order

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37  
papers

628  
citations

567281

15  
h-index

610901

24  
g-index

37  
all docs

37  
docs citations

37  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage by wind-blown sand and its control along Qinghai-Tibet Railway in China. <i>Aeolian Research</i> , 2010, 1, 143-146.	2.7	89
2	The temporal change of driving factors during the course of land desertification in arid region of North China: the case of Minqin County. <i>Environmental Geology</i> , 2007, 51, 999-1008.	1.2	62
3	Characteristics of near-surface wind regimes in the Taklimakan Desert, China. <i>Geomorphology</i> , 2008, 96, 39-47.	2.6	47
4	Aeolian sand transport over gobi with different gravel coverages under limited sand supply: A mobile wind tunnel investigation. <i>Aeolian Research</i> , 2013, 11, 67-74.	2.7	43
5	Key Role of Desertâ€œOasis Transitional Area in Avoiding Oasis Land Degradation from Aeolian Desertification in Dunhuang, Northwest China. <i>Land Degradation and Development</i> , 2017, 28, 142-150.	3.9	38
6	Controlling windblown sand problems by an artificial gravel surface: A case study over the gobi surface of the Mogao Grottoes. <i>Geomorphology</i> , 2011, 134, 461-469.	2.6	26
7	Field observations on the protective effect of semi-buried checkerboard sand barriers. <i>Geomorphology</i> , 2007, 88, 193-200.	2.6	25
8	An experimental study of the mechanisms of freeze/thaw and wind erosion of ancient adobe buildings in northwest China. <i>Bulletin of Engineering Geology and the Environment</i> , 2007, 66, 153-159.	3.5	25
9	Characteristics of wind-blown sand and near-surface wind regime in the Tengger Desert, China. <i>Aeolian Research</i> , 2012, 6, 83-88.	2.7	25
10	Temporal variations of sandstorms in Minqin oasis during 1954â€œ2000. <i>Environmental Geology</i> , 2005, 49, 332-338.	1.2	21
11	Characteristics of wind-blown sand on Gobi/mobile sand surface. <i>Environmental Geology</i> , 2008, 54, 411-416.	1.2	19
12	Morphology and formation mechanism of sand shadow dunes on the Qinghai-Tibet Plateau. <i>Journal of Arid Land</i> , 2015, 7, 10-26.	2.3	19
13	New discoveries on the effects of desertification on the ground temperature of permafrost and its significance to the Qinghai-Tibet Plateau. <i>Science Bulletin</i> , 2012, 57, 838-842.	1.7	17
14	Air density effects on aeolian sand movement: Implications for sediment transport and sand control in regions with extreme altitudes or temperatures. <i>Sedimentology</i> , 2015, 62, 1024-1038.	3.1	17
15	A wind tunnel study of aeolian sand transport on a wetted sand surface using sands from tropical humid coastal southern China. <i>Environmental Earth Sciences</i> , 2011, 64, 1375-1385.	2.7	16
16	The Effect of Air Density on Sand Transport Structures and the Adobe Abrasion Profile: A Field Wind-Tunnel Experiment Over a Wide Range of Altitude. <i>Boundary-Layer Meteorology</i> , 2014, 150, 299-317.	2.3	13
17	Quantification of driving factors on NDVI in oasis-desert ecotone using geographical detector method. <i>Journal of Mountain Science</i> , 2019, 16, 2615-2624.	2.0	13
18	Characteristics of wind-blown sand and dynamic environment in the section of Wudaoliang-Tuotuo River along the Qinghai-Tibet Railway. <i>Environmental Earth Sciences</i> , 2011, 64, 2039-2046.	2.7	12

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19	Effects of gravel mulch on aeolian transport: a field wind tunnel simulation. <i>Journal of Arid Land</i> , 2015, 7, 296-303.	2.3	12
20	Characteristics of wind-blown sand in the region of the Crescent Moon Spring of Dunhuang, China. <i>Environmental Earth Sciences</i> , 2013, 70, 3107-3113.	2.7	10
21	The mechanism of sand damage at the Fushaliang section of the Liuyuanâ€“Golmud expressway. <i>Aeolian Research</i> , 2021, 48, 100648.	2.7	10
22	A wind tunnel study of the parameters for aeolian sand transport above a wetted sand surface using sands from a tropical humid coastal region of southern China. <i>Environmental Earth Sciences</i> , 2012, 67, 243-250.	2.7	8
23	Quantitative analysis on the dynamic characteristics of megadunes around the Crescent Moon Spring, China. <i>Journal of Arid Land</i> , 2014, 6, 255-263.	2.3	8
24	The blocking effect of the sand fences quantified using wind tunnel simulations. <i>Journal of Mountain Science</i> , 2020, 17, 2485-2496.	2.0	8
25	Computational fluid dynamics evaluation of the effect of different city designs on the wind environment of a downwind natural heritage site. <i>Journal of Arid Land</i> , 2014, 6, 69-79.	2.3	7
26	Local Circulation Maintains the Coexistence of Lake-dune Pattern in the Badain Jaran Desert. <i>Scientific Reports</i> , 2017, 7, 40238.	3.3	7
27	Dune dynamics in the southern edge of Dunhuang Oasis and implications for the oasis protection. <i>Journal of Mountain Science</i> , 2018, 15, 2172-2181.	2.0	7
28	Study on the Characteristics of Flow Field and the Mechanism of Wind-blown Sand Disasters in the Tuotuohe Region along the Qinghai-Tibet Railway. <i>Arid Zone Research</i> , 2010, 27, 303-308.	0.1	5
29	Seasonal Variation of Hypolithic Microbiomes in the Gobi Desert. <i>Microbial Ecology</i> , 2023, 85, 1382-1395.	2.8	5
30	Use of groundâ€“penetrating radar to investigate feathery complex linear dunes in the Kumtagh Desert, Northâ€“west China. <i>Near Surface Geophysics</i> , 2013, 11, 11-18.	1.2	3
31	Morphologic changes of simple star dunes during the growth process in Dunhuang, China. <i>Journal of Mountain Science</i> , 2022, 19, 1095-1106.	2.0	3
32	Pulsatory characteristics of wind velocity in sand flow over typical underlying surfaces. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 247-253.	0.9	2
33	Environmental characteristics of sandstorm of Minqin Oasis in China for recent 50 years. <i>Journal of Environmental Sciences</i> , 2005, 17, 857-60.	6.1	2
34	Mechanisms Responsible for Sand Hazards Along Desert Highways and Their Control: A Case Study of the Wuhaiâ€“Maqin Highway in the Tengger Desert, Northwest China. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	2
35	Thermodynamic effects on particle movement: Wind tunnel simulation results. <i>Chinese Geographical Science</i> , 2012, 22, 178-187.	3.0	1
36	Integrated System to Combat Aeolian Desertification and Disasters. Structure and Function of Mountain Ecosystems in Japan, 2022, , 219-241.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Experimental study of surface texture and resonance mechanism of booming sand. Science in China Series D: Earth Sciences, 2007, 50, 1351-1358.	0.9	0