

# Xin Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

493  
citations

840776

11  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological environment quality evaluation of the Sahel region in Africa based on remote sensing ecological index. <i>Journal of Arid Land</i> , 2022, 14, 14-33.	2.3	27
2	Analysis of spatiotemporal changes and driving factors of desertification in the Africa Sahel. <i>Catena</i> , 2022, 213, 106213.	5.0	17
3	Shaping effects of sand flow channels on aeolian geomorphology – a case study of the Badain Jaran, Tengger, and Ulan Buh Deserts, northern China. <i>Catena</i> , 2022, 214, 106255.	5.0	6
4	Characteristics of the Spatio-Temporal Dynamics of Aerosols in Central Asia and Their Influencing Factors. <i>Remote Sensing</i> , 2022, 14, 2684.	4.0	4
5	Field measurements of turbulent flow structures over a nebkha. <i>Geomorphology</i> , 2021, 375, 107555.	2.6	8
6	Migration of Reversing Dunes Against the Sand Flow Path as a Singular Expression of the Speed-Up Effect. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005913.	2.8	8
7	Geomorphology of aeolian dunes in the western Sahara Desert. <i>Geomorphology</i> , 2021, 392, 107916.	2.6	11
8	Wind tunnel simulation of the aeolian erosion on the leeward side of barchan dunes and its implications for the spatial distribution patterns of barchan dunes. <i>Catena</i> , 2021, 207, 105583.	5.0	5
9	Morphodynamics of shadow dunes. <i>Earth-Science Reviews</i> , 2021, 222, 103840.	9.1	10
10	Spatial and Temporal Changes in the Normalized Difference Vegetation Index and Their Driving Factors in the Desert/Grassland Biome Transition Zone of the Sahel Region of Africa. <i>Remote Sensing</i> , 2020, 12, 4119.	4.0	22
11	Nebkha alignments and their implications for shadow dune elongation under unimodal wind regime. <i>Geomorphology</i> , 2020, 365, 107250.	2.6	8
12	Spatial and Temporal Characteristics of Vegetation NDVI Changes and the Driving Forces in Mongolia during 1982–2015. <i>Remote Sensing</i> , 2020, 12, 603.	4.0	110
13	Effects of Wind Velocity and Nebkha Geometry on Shadow Dune Formation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2579-2601.	2.8	24
14	Interactions between paleochannels and aeolian processes and their implications on aeolian dune patterns. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1176-1192.	4.3	1
15	Spatial distribution of sand dunes and their relationship with fluvial systems on the southern margin of the Taklimakan Desert, China. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 2408-2428.	4.3	3
16	First quantification of relationship between dune orientation and sediment availability, Olympia Undae, Mars. <i>Earth and Planetary Science Letters</i> , 2018, 489, 241-250.	4.4	14
17	Morphodynamics of barchan and dome dunes under variable wind regimes. <i>Geology</i> , 2018, 46, 743-746.	4.4	21
18	Impacts of different biochar types on hydrogen production promotion during fermentative co-digestion of food wastes and dewatered sewage sludge. <i>Waste Management</i> , 2018, 80, 73-80.	7.4	60

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19	Controls on and effects of armoring and vertical sorting in aeolian dune fields: A numerical simulation study. <i>Geophysical Research Letters</i> , 2016, 43, 2614-2622.	4.0	17
20	Phase diagrams of dune shape and orientation depending on sand availability. <i>Scientific Reports</i> , 2015, 5, 14677.	3.3	57
21	Development and steady states of transverse dunes: A numerical analysis of dune pattern coarsening and giant dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2200-2219.	2.8	49
22	Development of a multiscale discretization method for the geographical detector model. <i>International Journal of Geographical Information Science</i> , 0, , 1-26.	4.8	11