Xin Gao

List of Publications by Year
in descending order

22	493	840776 11	713466 21
papers	citations	h-index	g-index

22	22	22	483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatial and Temporal Characteristics of Vegetation NDVI Changes and the Driving Forces in Mongolia during 1982â€“2015. Remote Sensing, 2020, 12, 603.	4.0	110
2	Impacts of different biochar types on hydrogen production promotion during fermentative co-digestion of food wastes and dewatered sewage sludge. Waste Management, 2018, 80, 73-80.	7.4	60
3	Phase diagrams of dune shape and orientation depending on sand availability. Scientific Reports, 2015, 5, 14677.	3.3	57
4	Development and steady states of transverse dunes: A numerical analysis of dune pattern coarsening and giant dunes. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2200-2219.	2.8	49
5	Ecological environment quality evaluation of the Sahel region in Africa based on remote sensing ecological index. Journal of Arid Land, 2022, 14, 14-33.	2.3	27
6	Effects of Wind Velocity and Nebkha Geometry on Shadow Dune Formation. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2579-2601.	2.8	24
7	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. Remote Sensing, 2020, 12, 4119.	4.0	22
8	Morphodynamics of barchan and dome dunes under variable wind regimes. Geology, 2018, 46, 743-746.	4.4	21
9	Controls on and effects of armoring and vertical sorting in aeolian dune fields: A numerical simulation study. Geophysical Research Letters, 2016, 43, 2614-2622.	4.0	17
10	Analysis of spatiotemporal changes and driving factors of desertification in the Africa Sahel. Catena, 2022, 213, 106213.	5.0	17
11	First quantification of relationship between dune orientation and sediment availability, Olympia Undae, Mars. Earth and Planetary Science Letters, 2018, 489, 241-250.	4.4	14
12	Development of a multiscale discretization method for the geographical detector model. International Journal of Geographical Information Science, 0, , 1-26.	4.8	11
13	Geomorphology of aeolian dunes in the western Sahara Desert. Geomorphology, 2021, 392, 107916.	2.6	11
14	Morphodynamics of shadow dunes. Earth-Science Reviews, 2021, 222, 103840.	9.1	10
15	Nebkha alignments and their implications for shadow dune elongation under unimodal wind regime. Geomorphology, 2020, 365, 107250.	2.6	8
16	Field measurements of turbulent flow structures over a nebkha. Geomorphology, 2021, 375, 107555.	2.6	8
17	Migration of Reversing Dunes Against the Sand Flow Path as a Singular Expression of the Speedâ€Up Effect. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005913.	2.8	8
18	Shaping effects of sand flow channels on aeolian geomorphology â€“ a case study of the Badain Jaran, Tengger, and Ulan Buh Deserts, northern China. Catena, 2022, 214, 106255.	5.0	6

#	Article	IF	Citations
19	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. Catena, 2021, 207, 105583.	5.0	5
20	Characteristics of the Spatio-Temporal Dynamics of Aerosols in Central Asia and Their Influencing Factors. Remote Sensing, 2022, 14, 2684.	4.0	4
21	Spatial distribution of sand dunes and their relationship with fluvial systems on the southern margin of the Taklimakan Desert, China. Geomatics, Natural Hazards and Risk, 2019, 10, 2408-2428.	4.3	3
22	Interactions between paleochannels and aeolian processes and their implications on aeolian dune patterns. Geomatics, Natural Hazards and Risk, 2019, 10, 1176-1192.	4.3	1