

Cheryl McKenna-Neuman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7510274/publications.pdf>

Version: 2024-02-01

29
papers

1,146
citations

361413

20
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	High-latitude dust in the Earth system. <i>Reviews of Geophysics</i> , 2016, 54, 447-485.	23.0	207
2	Effects of Temperature and Humidity upon the Entrainment of Sedimentary Particles by Wind. <i>Boundary-Layer Meteorology</i> , 2003, 108, 61-89.	2.3	120
3	Wind tunnel simulation of environmental controls on fugitive dust emissions from mine tailings. <i>Atmospheric Environment</i> , 2009, 43, 520-529.	4.1	66
4	Boundary-layer turbulence characteristics during aeolian saltation. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	60
5	Measurement of water content as a control of particle entrainment by wind. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 303-317.	2.5	56
6	Observations of winter aeolian transport and niveo-aeolian deposition at crater lake, pangnirtung pass, N.W.T., Canada. <i>Permafrost and Periglacial Processes</i> , 1990, 1, 235-247.	3.4	51
7	Humidity control of particle emissions in aeolian systems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
8	Kinetic energy transfer through impact and its role in entrainment by wind of particles from frozen surfaces. <i>Sedimentology</i> , 1989, 36, 1007-1015.	3.1	43
9	Wind tunnel measurement of boundary-layer response to sediment transport. <i>Boundary-Layer Meteorology</i> , 1997, 84, 67-83.	2.3	43
10	Temporal aspects of the abrasion of microphytic crusts under grain impact. <i>Earth Surface Processes and Landforms</i> , 2002, 27, 891-908.	2.5	40
11	A study of particle splash on developing ripple forms for two bed materials. <i>Geomorphology</i> , 2011, 129, 79-91.	2.6	34
12	Vortex shedding and morphodynamic response of bed surfaces containing non-erodible roughness elements. <i>Geomorphology</i> , 2013, 198, 45-56.	2.6	33
13	Variation in bed level shear stress on surfaces sheltered by nonerodible roughness elements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
14	A comparison of collisions of saltating grains with loose and consolidated silt surfaces. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32
15	Aeolian sediment flux decay: Non-linear behaviour on developing deflation lag surfaces. <i>Earth Surface Processes and Landforms</i> , 1995, 20, 423-435.	2.5	31
16	A wind tunnel study of flow structure adjustment on deformable sand beds containing a surface-mounted obstacle. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1824-1840.	2.8	31
17	A wind tunnel study of particle kinematics during crust rupture and erosion. <i>Geomorphology</i> , 2012, 173-174, 149-160.	2.6	29
18	A tribute to Michael R. Raupach for contributions to aeolian fluid dynamics. <i>Aeolian Research</i> , 2015, 19, 37-54.	2.7	27

#	ARTICLE	IF	CITATIONS
19	A wind tunnel investigation of particle segregation, ripple formation and armouring within sand beds of systematically varied texture. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 749-762.	2.5	26
20	Role of Sublimation in Particle Supply for Aeolian Transport in Cold Environments. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1990, 72, 329-335.	1.5	24
21	PTV measurement of the spanwise component of aeolian transport in steady state. <i>Aeolian Research</i> , 2016, 20, 126-138.	2.7	19
22	Microtopographic analysis of shell pavements formed by aeolian transport in a wind tunnel simulation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
23	An experimental study of the dynamics of saltation within a three-dimensional framework. <i>Aeolian Research</i> , 2018, 31, 62-71.	2.7	14
24	Windblown fugitive dust emissions from smelter slag. <i>Aeolian Research</i> , 2014, 13, 19-29.	2.7	9
25	Experimental Validation of the Near-Bed Particle-Borne Stress Profile in Aeolian Transport Systems. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2463-2474.	2.8	9
26	Particle-scale characterization of volcanoclastic dust sources within Iceland. <i>Sedimentology</i> , 2021, 68, 1137-1158.	3.1	8
27	Laboratory Investigation of Particle-Scale Factors Affecting the Settling Velocity of Volcanoclastic Dust. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032660.	3.3	5
28	Assessing the Many Influences of High-Latitude Dust. <i>Eos</i> , 2018, 99, .	0.1	3
29	Wind Tunnel-Based Comparison of PM ₁₀ Emission Rates for Volcanic Ash and Glaciogenic Aerosol Sources Within Iceland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033392.	3.3	3