

Eric J R Parteli

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,195
citations

185998

28
h-index

149479

56
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82
all docs

82
docs citations

82
times ranked

2750
citing authors

#	ARTICLE	IF	CITATIONS
1	Uranium isotopes of aeolian dust deposited in northern Tibetan Plateau glaciers: Implications for tracing aeolian dust provenance. <i>Fundamental Research</i> , 2022, 2, 716-726.	1.6	6
2	Uranium Isotopic Composition and Constraints on the Provenance of the Qinghai-Tibet Plateau's Surface Dust. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	5
3	Long-term assessment of land-use and climate change on water scarcity in an arid basin in Iran. <i>Ecological Modelling</i> , 2022, 467, 109934.	1.2	35
4	Insight into atmospheric deposition and spatial distribution of bioavailable iron in the glaciers of northeastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 825, 153946.	3.9	4
5	Scaling Laws in Aeolian Sand Transport Under Low Sand Availability. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
6	Wind-tunnel experiments of Aeolian sand transport reveal a bimodal probability distribution function for the particle lift-off velocities. <i>Catena</i> , 2022, 217, 106496.	2.2	1
7	Splash function for the collision of sand-sized particles onto an inclined granular bed, based on discrete-element-simulations. <i>Powder Technology</i> , 2021, 378, 348-358.	2.1	9
8	Toward a large-scale particle-based parallel simulator of Aeolian sand transport, including a model for mobile sand availability. <i>EPJ Web of Conferences</i> , 2021, 249, 13004.	0.1	2
9	An expression for the angle of repose of dry cohesive granular materials on Earth and in planetary environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
10	Lifting of Tribocharged Grains by Martian Winds. <i>Planetary Science Journal</i> , 2021, 2, 238.	1.5	6
11	CFD simulation of the wind field over a terrain with sand fences: Critical spacing for the wind shear velocity. <i>Aeolian Research</i> , 2020, 43, 100574.	1.1	23
12	The implications of sampling approach and geomorphological processes for cosmogenic ¹⁰ Be exposure dating of marine terraces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 467, 130-139.	0.6	4
13	Packings of micron-sized spherical particles – Insights from bulk density determination, X-ray microtomography and discrete element simulations. <i>Advanced Powder Technology</i> , 2020, 31, 2293-2304.	2.0	34
14	Ping-pong ball cannon: Why do barrel and balls fly in the same direction?. <i>American Journal of Physics</i> , 2019, 87, 255-263.	0.3	3
15	Dunes on Pluto. <i>Science</i> , 2018, 360, 992-997.	6.0	81
16	Migration and Morphology of Asymmetric Barchans in the Central Hexi Corridor of Northwest China. <i>Geosciences (Switzerland)</i> , 2018, 8, 204.	1.0	22
17	Modelling the Retreat of a Coastal Dune under Changing Winds. <i>Journal of Coastal Research</i> , 2018, 85, 166-170.	0.1	8
18	The Spatial Origin of Chondrules in Individual Chondrites: Constraints from Modeling Chondrule Mixing. <i>Astrophysical Journal</i> , 2018, 863, 54.	1.6	5

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19	Optimal array of sand fences. Scientific Reports, 2017, 7, 45148.	1.6	44
20	Effect of particle shape on the efficiency of granular dampers. EPJ Web of Conferences, 2017, 140, 06006.	0.1	0
21	Particle-based simulations of powder coating in additive manufacturing suggest increase in powder bed roughness with coating speed. EPJ Web of Conferences, 2017, 140, 15013.	0.1	5
22	Homogenization of granular pipe flow by means of helical inner-wall texture. EPJ Web of Conferences, 2017, 140, 03069.	0.1	1
23	Origin of Granular Capillarity Revealed by Particle-Based Simulations. Physical Review Letters, 2017, 118, 218001.	2.9	34
24	Vertical motion of particles in vibration-induced granular capillarity. EPJ Web of Conferences, 2017, 140, 16008.	0.1	4
25	Barchan dunes on Pluto?. EPJ Web of Conferences, 2017, 140, 14010.	0.1	1
26	Granular dampers: does particle shape matter?. New Journal of Physics, 2016, 18, 073049.	1.2	33
27	Bidirectional winds, barchan dune asymmetry and formation of seif dunes from barchans: a discussion. Environmental Earth Sciences, 2016, 75, 1.	1.3	22
28	Particle-based simulation of powder application in additive manufacturing. Powder Technology, 2016, 288, 96-102.	2.1	271
29	Two-dimensional airflow modeling underpredicts the wind velocity over dunes. Scientific Reports, 2015, 5, 16572.	1.6	16
30	Helical inner-wall texture prevents jamming in granular pipe flows. Soft Matter, 2015, 11, 4295-4305.	1.2	28
31	Rectilinear Dune. , 2015, , 1717-1718.		0
32	Drop Dune. , 2015, , 629-630.		0
33	Dome Dune. , 2015, , 601-603.		0
34	Morphodynamic modeling of aeolian dunes: Review and future plans. European Physical Journal: Special Topics, 2014, 223, 2269-2283.	1.2	37
35	Drop Dune. , 2014, , 1-2.		0
36	Dome Dune. , 2014, , 1-3.		0

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37	Origins of barchan dune asymmetry: Insights from numerical simulations. <i>Aeolian Research</i> , 2014, 12, 121-133.	1.1	66
38	Analytical model for flux saturation in sediment transport. <i>Physical Review E</i> , 2014, 89, 052213.	0.8	35
39	Attractive particle interaction forces and packing density of fine glass powders. <i>Scientific Reports</i> , 2014, 4, 6227.	1.6	138
40	Flux Saturation Length of Sediment Transport. <i>Physical Review Letters</i> , 2013, 111, 218002.	2.9	62
41	DEM simulation of particles of complex shapes using the multisphere method: Application for additive manufacturing. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	53
42	Numerical modeling of the wind flow over a transverse dune. <i>Scientific Reports</i> , 2013, 3, 2858.	1.6	46
43	Linear stability analysis of transverse dunes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4606-4614.	1.2	24
44	Model for a dune field with an exposed water table. <i>Geomorphology</i> , 2012, 159-160, 169-177.	1.1	29
45	The physics of wind-blown sand and dust. <i>Reports on Progress in Physics</i> , 2012, 75, 106901.	8.1	847
46	Model for the genesis of coastal dune fields with vegetation. <i>Geomorphology</i> , 2011, 129, 215-224.	1.1	73
47	Particle transport in flow through a ratchet-like channel. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 543-550.	1.0	13
48	Transverse Instability of Dunes. <i>Physical Review Letters</i> , 2011, 107, 188001.	2.9	45
49	A continuous model for sand dunes: Review, new developments and application to barchan dunes and barchan dune fields. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 1591-1600.	1.2	78
50	Particle separation in a ramified structure. <i>Chemical Engineering Science</i> , 2010, 65, 1400-1406.	1.9	7
51	Self-organized percolation in multi-layered structures. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P03026.	0.9	14
52	Extraterrestrial dunes: An introduction to the special issue on planetary dune systems. <i>Geomorphology</i> , 2010, 121, 1-14.	1.1	144
53	Dune formation under bimodal winds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22085-22089.	3.3	98
54	Surface drag. , 2009, , .		0

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55	Modeling transverse dunes with vegetation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4205-4217.	1.2	22
56	Sand transport on Mars. <i>Computer Physics Communications</i> , 2009, 180, 609-611.	3.0	12
57	Vegetation and Induration as Sand Dunes Stabilizators. <i>Journal of Coastal Research</i> , 2008, 246, 1357-1368.	0.1	31
58	Giant saltation on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6222-6226.	3.3	144
59	Reply to Andreotti: Consistent saltation height measurements and physical assumptions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, .	3.3	1
60	Dune formation on the present Mars. <i>Physical Review E</i> , 2007, 76, 041307.	0.8	57
61	Minimal size of a barchan dune. <i>Physical Review E</i> , 2007, 75, 011301.	0.8	99
62	Reply to "Comment on "Minimal size of a barchan dune"™". <i>Physical Review E</i> , 2007, 76, .	0.8	12
63	Saltation Transport on Mars. <i>Physical Review Letters</i> , 2007, 98, 198001.	2.9	42
64	Evidence for indurated sand dunes in the Martian north polar region. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	82
65	Profile measurement and simulation of a transverse dune field in the Lençóis Maranhenses. <i>Geomorphology</i> , 2006, 81, 29-42.	1.1	44
66	Calculation of the separation streamlines of barchans and transverse dunes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 357, 44-49.	1.2	42
67	Nontrivial temporal scaling in a Galilean stick-slip dynamics. <i>Physical Review E</i> , 2005, 71, 036137.	0.8	11
68	MODELLING FORMATION AND EVOLUTION OF TRANSVERSE DUNE FIELDS. <i>International Journal of Modern Physics C</i> , 2005, 16, 1879-1892.	0.8	9
69	Sliding susceptibility of a rough cylinder on a rough inclined perturbed surface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 335, 47-58.	1.2	2
70	A simple model for a transverse dune field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 327, 554-562.	1.2	26
71	Omori law for sliding of blocks on inclined rough surfaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 292, 536-544.	1.2	8