Eric J R Parteli

List of Publications by Year
in descending order

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71 papers	3,195 citations	185998 28 h-index	149479 56 g-index
82 all docs	82 docs citations	82 times ranked	2750 citing authors

#	Article	IF	Citations
1	The physics of wind-blown sand and dust. Reports on Progress in Physics, 2012, 75, 106901.	8.1	847
2	Particle-based simulation of powder application in additive manufacturing. Powder Technology, 2016, 288, 96-102.	2.1	271
3	Giant saltation on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6222-6226.	3.3	144
4	Extraterrestrial dunes: An introduction to the special issue on planetary dune systems. Geomorphology, 2010, 121, 1-14.	1.1	144
5	Attractive particle interaction forces and packing density of fine glass powders. Scientific Reports, 2014, 4, 6227.	1.6	138
6	Minimal size of a barchan dune. Physical Review E, 2007, 75, 011301.	0.8	99
7	Dune formation under bimodal winds. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22085-22089.	3.3	98
8	Evidence for indurated sand dunes in the Martian north polar region. Journal of Geophysical Research, 2006, 111, .	3.3	82
9	Dunes on Pluto. Science, 2018, 360, 992-997.	6.0	81
10	A continuous model for sand dunes: Review, new developments and application to barchan dunes and barchan dune fields. Earth Surface Processes and Landforms, 2010, 35, 1591-1600.	1.2	78
11	Model for the genesis of coastal dune fields with vegetation. Geomorphology, 2011, 129, 215-224.	1.1	73
12	Origins of barchan dune asymmetry: Insights from numerical simulations. Aeolian Research, 2014, 12, 121-133.	1.1	66
13	Flux Saturation Length of Sediment Transport. Physical Review Letters, 2013, 111, 218002.	2.9	62
14	Dune formation on the present Mars. Physical Review E, 2007, 76, 041307.	0.8	57
15	DEM simulation of particles of complex shapes using the multisphere method: Application for additive manufacturing. AIP Conference Proceedings, 2013, , .	0.3	53
16	Numerical modeling of the wind flow over a transverse dune. Scientific Reports, 2013, 3, 2858.	1.6	46
17	Transverse Instability of Dunes. Physical Review Letters, 2011, 107, 188001.	2.9	45
18	Profile measurement and simulation of a transverse dune field in the LenÃ§Ã³is Maranhenses. Geomorphology, 2006, 81, 29-42.	1.1	44

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19	Optimal array of sand fences. Scientific Reports, 2017, 7, 45148.	1.6	44
20	Calculation of the separation streamlines of barchans and transverse dunes. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 44-49.	1.2	42
21	Saltation Transport on Mars. Physical Review Letters, 2007, 98, 198001.	2.9	42
22	Morphodynamic modeling of aeolian dunes: Review and future plans. European Physical Journal: Special Topics, 2014, 223, 2269-2283.	1.2	37
23	Analytical model for flux saturation in sediment transport. Physical Review E, 2014, 89, 052213.	0.8	35
24	Long-term assessment of land-use and climate change on water scarcity in an arid basin in Iran. Ecological Modelling, 2022, 467, 109934.	1.2	35
25	Origin of Granular Capillarity Revealed by Particle-Based Simulations. Physical Review Letters, 2017, 118, 218001.	2.9	34
26	Packings of micron-sized spherical particles â€“ Insights from bulk density determination, X-ray microtomography and discrete element simulations. Advanced Powder Technology, 2020, 31, 2293-2304.	2.0	34
27	Granular dampers: does particle shape matter?. New Journal of Physics, 2016, 18, 073049.	1.2	33
28	Vegetation and Induration as Sand Dunes Stabilizators. Journal of Coastal Research, 2008, 246, 1357-1368.	0.1	31
29	Model for a dune field with an exposed water table. Geomorphology, 2012, 159-160, 169-177.	1.1	29
30	Helical inner-wall texture prevents jamming in granular pipe flows. Soft Matter, 2015, 11, 4295-4305.	1.2	28
31	A simple model for a transverse dune field. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 554-562.	1.2	26
32	Linear stability analysis of transverse dunes. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4606-4614.	1.2	24
33	An expression for the angle of repose of dry cohesive granular materials on Earth and in planetary environments. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
34	CFD simulation of the wind field over a terrain with sand fences: Critical spacing for the wind shear velocity. Aeolian Research, 2020, 43, 100574.	1.1	23
35	Modeling transverse dunes with vegetation. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4205-4217.	1.2	22
36	Bidirectional winds, barchan dune asymmetry and formation of seif dunes from barchans: a discussion. Environmental Earth Sciences, 2016, 75, 1.	1.3	22

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37	Migration and Morphology of Asymmetric Barchans in the Central Hexi Corridor of Northwest China. Geosciences (Switzerland), 2018, 8, 204.	1.0	22
38	Two-dimensional airflow modeling underpredicts the wind velocity over dunes. Scientific Reports, 2015, 5, 16572.	1.6	16
39	Self-organized percolation in multi-layered structures. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P03026.	0.9	14
40	Particle transport in flow through a ratchet-like channel. Microfluidics and Nanofluidics, 2011, 10, 543-550.	1.0	13
41	Reply to â€œComment on â€˜Minimal size of a barchan duneâ€™ â€• Physical Review E, 2007, 76, .	0.8	12
42	Sand transport on Mars. Computer Physics Communications, 2009, 180, 609-611.	3.0	12
43	Nontrivial temporal scaling in a Galilean stick-slip dynamics. Physical Review E, 2005, 71, 036137.	0.8	11
44	MODELLING FORMATION AND EVOLUTION OF TRANSVERSE DUNE FIELDS. International Journal of Modern Physics C, 2005, 16, 1879-1892.	0.8	9
45	Splash function for the collision of sand-sized particles onto an inclined granular bed, based on discrete-element-simulations. Powder Technology, 2021, 378, 348-358.	2.1	9
46	Omori law for sliding of blocks on inclined rough surfaces. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 536-544.	1.2	8
47	Modelling the Retreat of a Coastal Dune under Changing Winds. Journal of Coastal Research, 2018, 85, 166-170.	0.1	8
48	Scaling Laws in Aeolian Sand Transport Under Low Sand Availability. Geophysical Research Letters, 2022, 49, .	1.5	8
49	Particle separation in a ramified structure. Chemical Engineering Science, 2010, 65, 1400-1406.	1.9	7
50	Uranium isotopes of aeolian dust deposited in northern Tibetan Plateau glaciers: Implications for tracing aeolian dust provenance. Fundamental Research, 2022, 2, 716-726.	1.6	6
51	Lifting of Tribocharged Grains by Martian Winds. Planetary Science Journal, 2021, 2, 238.	1.5	6
52	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
53	The Spatial Origin of Chondrules in Individual Chondrites: Constraints from Modeling Chondrule Mixing. Astrophysical Journal, 2018, 863, 54.	1.6	5
54	Uranium Isotopic Composition and Constraints on the Provenance of the Qinghaiâ€Tibet Plateau's Surface Dust. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	5

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55	Vertical motion of particles in vibration-induced granular capillarity. EPJ Web of Conferences, 2017, 140, 16008.	0.1	4
56	The implications of sampling approach and geomorphological processes for cosmogenic 10Be exposure dating of marine terraces. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 130-139.	0.6	4
57	Insight into atmospheric deposition and spatial distribution of bioavailable iron in the glaciers of northeastern Tibetan Plateau. Science of the Total Environment, 2022, 825, 153946.	3.9	4
58	Ping-pong ball cannon: Why do barrel and balls fly in the same direction?. American Journal of Physics, 2019, 87, 255-263.	0.3	3
59	Sliding susceptibility of a rough cylinder on a rough inclined perturbed surface. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 47-58.	1.2	2
60	Toward a large-scale particle-based parallel simulator of Aeolian sand transport, including a model for mobile sand availability. EPJ Web of Conferences, 2021, 249, 13004.	0.1	2
61	Reply to Andreotti: Consistent saltation height measurements and physical assumptions. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, .	3.3	1
62	Homogenization of granular pipe flow by means of helical inner-wall texture. EPJ Web of Conferences, 2017, 140, 03069.	0.1	1
63	Barchan dunes on Pluto?. EPJ Web of Conferences, 2017, 140, 14010.	0.1	1
64	Wind-tunnel experiments of Aeolian sand transport reveal a bimodal probability distribution function for the particle lift-off velocities. Catena, 2022, 217, 106496.	2.2	1
65	Surface drag. , 2009, , .		0
66	Drop Dune. , 2014, , 1-2.		0
67	Dome Dune. , 2014, , 1-3.		0
68	Effect of particle shape on the efficiency of granular dampers. EPJ Web of Conferences, 2017, 140, 06006.	0.1	0
69	Rectilinear Dune. , 2015, , 1717-1718.		0
70	Drop Dune. , 2015, , 629-630.		0
71	Dome Dune. , 2015, , 601-603.		0