Ryan C Ewing

List of Publications by Year
in descending order

48 papers	5,252 citations	117625 34 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	3391 citing authors

#	Article	IF	Citations
1	Aeolian sediment transport on Io from lavaâ€“frost interactions. Nature Communications, 2022, 13, 2076.	12.8	3
2	An Evolving Understanding of Enigmatic Large Ripples on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006729.	3.6	21
3	Circadian Rhythm of Duneâ€Field Activity. Geophysical Research Letters, 2021, 48, e2020GL090924.	4.0	12
4	A Rock Record of Complex Aeolian Bedforms in a Hesperian Desert Landscape: The Stimson Formation as Exposed in the Murray Buttes, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006554.	3.6	34
5	Inferring Airflow Across Martian Dunes From Ripple Patterns and Dynamics. Frontiers in Earth Science, 2021, 9, .	1.8	5
6	The Oligoceneâ€Miocene Guadalopeâ€Matarranya Fan, Spain, as an Analog for Longâ€Lived, Ridgeâ€Bearing Megafans on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006993.	3.6	1
7	Experimentally Derived Thresholds for Windblown Sand on Mars. Geophysical Research Letters, 2020, 47, e2019GL084484.	4.0	38
8	Macroscopic Flow Disequilibrium Over Aeolian Dune Fields. Geophysical Research Letters, 2020, 47, e2020GL088773.	4.0	7
9	Coupling Mars Ground and Orbital Views: Generate Viewsheds of Mastcam Images From the Curiosity Rover, Using ArcGISÂ® and Public Datasets. Earth and Space Science, 2020, 7, e2020EA001247.	2.6	5
10	Spatial and Temporal Development of Incipient Dunes. Geophysical Research Letters, 2020, 47, e2020GL088919.	4.0	18
11	White Sands. Dunes of the World, 2020, , 207-237.	0.5	3
12	Formation of sinuous ridges by inversion of river-channel belts in Utah, USA, with implications for Mars. Icarus, 2019, 332, 92-110.	2.5	50
13	Ancient Martian aeolian processes and palaeomorphology reconstructed from the Stimson formation on the lower slope of Aeolis Mons, Gale crater, Mars. Sedimentology, 2018, 65, 993-1042.	3.1	143
14	Rapid sea level rise in the aftermath of a Neoproterozoic snowball Earth. Science, 2018, 360, 649-651.	12.6	37
15	Morphologic Diversity of Martian Ripples: Implications for Largeâ€Ripple Formation. Geophysical Research Letters, 2018, 45, 10,229.	4.0	59
16	Comparing dune migration measured from remote sensing with sand flux prediction based on weather data and model, a test case in Qatar. Earth and Planetary Science Letters, 2018, 497, 12-21.	4.4	28
17	Compositional variations in sands of the Bagnold Dunes, Gale crater, Mars, from visibleâ€shortwave infrared spectroscopy and comparison with ground truth from the Curiosity rover. Journal of Geophysical Research E: Planets, 2017, 122, 2489-2509.	3.6	64
18	Mineralogy of an active eolian sediment from the Namib dune, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2344-2361.	3.6	98

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19	Martian aeolian activity at the Bagnold Dunes, Gale Crater: The view from the surface and orbit. Journal of Geophysical Research E: Planets, 2017, 122, 2077-2110.	3.6	77
20	Sedimentary processes of the Bagnold Dunes: Implications for the eolian rock record of Mars. Journal of Geophysical Research E: Planets, 2017, 122, 2544-2573.	3.6	83
21	Large wind ripples on Mars: A record of atmospheric evolution. Science, 2016, 353, 55-58.	12.6	144
22	Variations in Titanâ€™s dune orientations as a result of orbital forcing. Icarus, 2016, 270, 197-210.	2.5	16
23	Multi-spatial analysis of aeolian dune-field patterns. Geomorphology, 2015, 240, 44-53.	2.6	52
24	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. Science, 2015, 350, aac7575.	12.6	471
25	Sand dune patterns on Titan controlled by long-term climate cycles. Nature Geoscience, 2015, 8, 15-19.	12.9	56
26	Windâ€blown sandstones cemented by sulfate and clay minerals in Gale Crater, Mars. Geophysical Research Letters, 2014, 41, 1149-1154.	4.0	81
27	Definition and origin of the dune-field pattern at White Sands, New Mexico. Aeolian Research, 2014, 15, 269-287.	2.7	41
28	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
29	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
30	New constraints on equatorial temperatures during a Late Neoproterozoic snowball Earth glaciation. Earth and Planetary Science Letters, 2014, 406, 110-122.	4.4	28
31	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
32	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
33	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
34	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
35	Pervasive aeolian activity along rover Curiosity's traverse in Gale Crater, Mars. Geology, 2013, 41, 483-486.	4.4	110
36	The End-Cryogenian Glaciation of South Australia. Geoscience Canada, 2013, 40, 256.	0.8	37

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37	Source-to-Sink: An Earth/Mars Comparison of Boundary Conditions for Eolian Dune Systems. , 2012, , 151-168.		17
38	Internal boundary layer model for the evolution of desert dune fields. Nature Geoscience, 2012, 5, 206-209.	12.9	76
39	How do bedform patterns arise? New views on the role of bedform interactions within a set of boundary conditions. Earth Surface Processes and Landforms, 2010, 35, 51-63.	2.5	135
40	Aeolian dune interactions and dune-field pattern formation: White Sands Dune Field, New Mexico. Sedimentology, 2010, 57, 1199.	3.1	103
41	Dune field pattern formation and recent transporting winds in the Olympia Undae Dune Field, north polar region of Mars. Journal of Geophysical Research, 2010, 115, .	3.3	74
42	Barchanâ€parabolic dune pattern transition from vegetation stability threshold. Geophysical Research Letters, 2010, 37, .	4.0	73
43	Sand dune movement in the Victoria Valley, Antarctica. Geomorphology, 2009, 109, 148-160.	2.6	74
44	Origin of a complex and spatially diverse dune-field pattern, Algodones, southeastern California. Geomorphology, 2008, 99, 186-204.	2.6	71
45	White Sands Dune Field, New Mexico: Age, dune dynamics and recent accumulations. Sedimentary Geology, 2007, 197, 313-331.	2.1	145
46	Development of spatially diverse and complex dune-field patterns: Gran Desierto Dune Field, Sonora, Mexico. Sedimentology, 2006, 53, 1391-1409.	3.1	78
47	Pattern analysis of dune-field parameters. Earth Surface Processes and Landforms, 2006, 31, 1176-1191.	2.5	153
48	Aeolian dune field self-organization â€“ implications for the formation of simple versus complex dune-field patterns. Geomorphology, 2005, 72, 94-105.	2.6	197