

Ryan C Ewing

List of Publications by Year in descending order

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Version: 2024-02-01

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	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
2	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	12.6	471
3	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
4	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
5	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
6	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
7	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
8	Aeolian dune field self-organization â€œ implications for the formation of simple versus complex dune-field patterns. <i>Geomorphology</i> , 2005, 72, 94-105.	2.6	197
9	Pattern analysis of dune-field parameters. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1176-1191.	2.5	153
10	White Sands Dune Field, New Mexico: Age, dune dynamics and recent accumulations. <i>Sedimentary Geology</i> , 2007, 197, 313-331.	2.1	145
11	Large wind ripples on Mars: A record of atmospheric evolution. <i>Science</i> , 2016, 353, 55-58.	12.6	144
12	Ancient Martian aeolian processes and palaeomorphology reconstructed from the Stimson formation on the lower slope of Aeolis Mons, Gale crater, Mars. <i>Sedimentology</i> , 2018, 65, 993-1042.	3.1	143
13	How do bedform patterns arise? New views on the role of bedform interactions within a set of boundary conditions. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 51-63.	2.5	135
14	Pervasive aeolian activity along rover Curiosity's traverse in Gale Crater, Mars. <i>Geology</i> , 2013, 41, 483-486.	4.4	110
15	Aeolian dune interactions and dune-field pattern formation: White Sands Dune Field, New Mexico. <i>Sedimentology</i> , 2010, 57, 1199.	3.1	103
16	Mineralogy of an active eolian sediment from the Namib dune, Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2344-2361.	3.6	98
17	Sedimentary processes of the Bagnold Dunes: Implications for the eolian rock record of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2544-2573.	3.6	83
18	Wind-blown sandstones cemented by sulfate and clay minerals in Gale Crater, Mars. <i>Geophysical Research Letters</i> , 2014, 41, 1149-1154.	4.0	81

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19	Development of spatially diverse and complex dune-field patterns: Gran Desierto Dune Field, Sonora, Mexico. <i>Sedimentology</i> , 2006, 53, 1391-1409.	3.1	78
20	Martian aeolian activity at the Bagnold Dunes, Gale Crater: The view from the surface and orbit. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2077-2110.	3.6	77
21	Internal boundary layer model for the evolution of desert dune fields. <i>Nature Geoscience</i> , 2012, 5, 206-209.	12.9	76
22	Sand dune movement in the Victoria Valley, Antarctica. <i>Geomorphology</i> , 2009, 109, 148-160.	2.6	74
23	Dune field pattern formation and recent transporting winds in the Olympia Undae Dune Field, north polar region of Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	74
24	Barchanâ€parabolic dune pattern transition from vegetation stability threshold. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	73
25	Origin of a complex and spatially diverse dune-field pattern, Algodones, southeastern California. <i>Geomorphology</i> , 2008, 99, 186-204.	2.6	71
26	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. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2489-2509.	3.6	64
27	Morphologic Diversity of Martian Ripples: Implications for Largeâ€Ripple Formation. <i>Geophysical Research Letters</i> , 2018, 45, 10,229.	4.0	59
28	Sand dune patterns on Titan controlled by long-term climate cycles. <i>Nature Geoscience</i> , 2015, 8, 15-19.	12.9	56
29	Multi-spatial analysis of aeolian dune-field patterns. <i>Geomorphology</i> , 2015, 240, 44-53.	2.6	52
30	Formation of sinuous ridges by inversion of river-channel belts in Utah, USA, with implications for Mars. <i>Icarus</i> , 2019, 332, 92-110.	2.5	50
31	Definition and origin of the dune-field pattern at White Sands, New Mexico. <i>Aeolian Research</i> , 2014, 15, 269-287.	2.7	41
32	Experimentally Derived Thresholds for Windblown Sand on Mars. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084484.	4.0	38
33	Rapid sea level rise in the aftermath of a Neoproterozoic snowball Earth. <i>Science</i> , 2018, 360, 649-651.	12.6	37
34	The End-Cryogenian Glaciation of South Australia. <i>Geoscience Canada</i> , 2013, 40, 256.	0.8	37
35	A Rock Record of Complex Aeolian Bedforms in a Hesperian Desert Landscape: The Stimson Formation as Exposed in the Murray Buttes, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006554.	3.6	34
36	New constraints on equatorial temperatures during a Late Neoproterozoic snowball Earth glaciation. <i>Earth and Planetary Science Letters</i> , 2014, 406, 110-122.	4.4	28

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37	Comparing dune migration measured from remote sensing with sand flux prediction based on weather data and model, a test case in Qatar. <i>Earth and Planetary Science Letters</i> , 2018, 497, 12-21.	4.4	28
38	An Evolving Understanding of Enigmatic Large Ripples on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006729.	3.6	21
39	Spatial and Temporal Development of Incipient Dunes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088919.	4.0	18
40	Source-to-Sink: An Earth/Mars Comparison of Boundary Conditions for Eolian Dune Systems. , 2012, , 151-168.		17
41	Variations in Titan's dune orientations as a result of orbital forcing. <i>Icarus</i> , 2016, 270, 197-210.	2.5	16
42	Circadian Rhythm of Dune Field Activity. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090924.	4.0	12
43	Macroscopic Flow Disequilibrium Over Aeolian Dune Fields. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088773.	4.0	7
44	Coupling Mars Ground and Orbital Views: Generate Viewsheds of Mastcam Images From the Curiosity Rover, Using ArcGIS® and Public Datasets. <i>Earth and Space Science</i> , 2020, 7, e2020EA001247.	2.6	5
45	Inferring Airflow Across Martian Dunes From Ripple Patterns and Dynamics. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	5
46	White Sands. <i>Dunes of the World</i> , 2020, , 207-237.	0.5	3
47	Aeolian sediment transport on Io from lava-frost interactions. <i>Nature Communications</i> , 2022, 13, 2076.	12.8	3
48	The Oligocene-Miocene Guadalope-Matarranya Fan, Spain, as an Analog for Long-Lived, Ridge-Bearing Megafans on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006993.	3.6	1