Lori K Fenton

List of Publications by Year
in descending order

42	1,763	257450 24	265206 42
papers	citations	h-index	g-index

44	44	44	1023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Martian Dust. , 2022, , 637-666.		6
2	Transverse Aeolian Ridge Growth Mechanisms and Pattern Evolution in Scandia Cavi, Mars. Frontiers in Earth Science, 2021, 8, .	1.8	5
3	Ancient Martian Aeolian Sand Dune Deposits Recorded in the Stratigraphy of Valles Marineris and Implications for Past Climates. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006510.	3.6	16
4	Updating the global inventory of dune fields on Mars and identification of many small dune fields. Icarus, 2020, 352, 114018.	2.5	18
5	Boundary condition controls on the high-sand-flux regions of Mars. Geology, 2019, 47, 427-430.	4.4	43
6	The Mars Global Digital Dune Database (MGD3): Global patterns of mineral composition and bedform stability. Icarus, 2019, 330, 189-203.	2.5	12
7	Climate Forcing of Ripple Migration and Crest Alignment in the Last 400 kyr in Meridiani Planum, Mars. Journal of Geophysical Research E: Planets, 2018, 123, 849-863.	3.6	16
8	Patterns in Mobility and Modification of Middleâ€•and Highâ€Łatitude Southern Hemisphere Dunes on Mars. Journal of Geophysical Research E: Planets, 2018, 123, 3205-3219.	3.6	35
9	The Geologic Exploration of the Bagnold Dune Field at Gale Crater by the Curiosity Rover. Journal of Geophysical Research E: Planets, 2017, 122, 2216-2222.	3.6	5
10	Sedimentary differentiation of aeolian grains at the White Sands National Monument, New Mexico, USA. Aeolian Research, 2017, 26, 117-136.	2.7	10
11	Aeolian dune sediment flux heterogeneity in Meridiani Planum, Mars. Aeolian Research, 2017, 26, 73-88.	2.7	26
12	The albedo of martian dunes: Insights into aeolian activity and dust devil formation. Aeolian Research, 2017, 26, 89-100.	2.7	7
13	Dust Devil Tracks. Space Science Reviews, 2016, 203, 143-181.	8.1	32
14	Orbital monitoring of martian surface changes. Icarus, 2016, 278, 279-300.	2.5	18
15	Dust Devil Formation. Space Science Reviews, 2016, 203, 183-207.	8.1	34
16	Orbital Observations of Dust Lofted by Daytime Convective Turbulence. Space Science Reviews, 2016, 203, 89-142.	8.1	35
17	Dust devil height and spacing with relation to the martian planetary boundary layer thickness. Icarus, 2015, 260, 246-262.	2.5	48
18	Object-based Dune Analysis: Automated dune mapping and pattern characterization for Ganges Chasma and Gale crater, Mars. Geomorphology, 2015, 250, 128-139.	2.6	21

#	Article	IF	Citations
19	Late Amazonian aeolian features, gradation, wind regimes, and Sediment State in the Vicinity of the Mars Exploration Rover Opportunity, Meridiani Planum, Mars. Aeolian Research, 2015, 16, 75-99.	2.7	33
20	Persistent aeolian activity at Endeavour crater, Meridiani Planum, Mars; new observations from orbit and the surface. Icarus, 2015, 251, 275-290.	2.5	49
21	Inverse maximum gross bedform-normal transport 1: How to determine a dune-constructing wind regime using only imagery. Icarus, 2014, 230, 5-14.	2.5	24
22	Inverse maximum gross bedform-normal transport 2: Application to a dune field in Ganges Chasma, Mars and comparison with HiRISE repeat imagery and MRAMS. Icarus, 2014, 230, 47-63.	2.5	18
23	Mars Global Digital Dune Database (MGD3): Global dune distribution and wind pattern observations. Icarus, 2014, 230, 38-46.	2.5	70
24	Summary of the Third International Planetary Dunes Workshop: Remote Sensing and Image Analysis of Planetary Dunes, Flagstaff, Arizona, USA, June 12â€“15, 2012. Aeolian Research, 2013, 8, 29-38.	2.7	3
25	Pervasive aeolian activity along rover Curiosity's traverse in Gale Crater, Mars. Geology, 2013, 41, 483-486.	4.4	110
26	Shifting sands on Mars: insights from tropical intraâ€crater dunes. Earth Surface Processes and Landforms, 2013, 38, 407-412.	2.5	19
27	Field measurements of horizontal forward motion velocities of terrestrial dust devils: Towards a proxy for ambient winds on Mars and Earth. Icarus, 2012, 221, 632-645.	2.5	51
28	Interpretation of the complex dune morphology on Mars: dune activity, modelling and a terrestrial analogue. Earth Surface Processes and Landforms, 2012, 37, 1424-1436.	2.5	23
29	Summary of the Second International Planetary Dunes Workshop: Planetary Analogs â€" Integrating Models, Remote Sensing, and Field Data, Alamosa, Colorado, USA, May 18â€“21, 2010. Aeolian Research, 2010, 2, 173-178.	2.7	12
30	Southern high latitude dune fields on Mars: Morphology, aeolian inactivity, and climate change. Geomorphology, 2010, 121, 98-121.	2.6	86
31	Extraterrestrial dunes: An introduction to the special issue on planetary dune systems. Geomorphology, 2010, 121, 1-14.	2.6	144
32	Aeolian dunes as ground truth for atmospheric modeling on Mars. Journal of Geophysical Research, 2009, 114, .	3.3	40
33	Mars Global Digital Dune Database and initial science results. Journal of Geophysical Research, 2007, 112, .	3.3	180
34	Global warming and climate forcing by recent albedo changes on Mars. Nature, 2007, 446, 646-649.	27.8	89
35	Thermal properties of sand from Thermal Emission Spectrometer (TES) and Thermal Emission Imaging System (THEMIS): Spatial variations within the Proctor Crater dune field on Mars. Journal of Geophysical Research, 2006, 111, .	3.3	29
36	Dune migration and slip face advancement in the Rabe Crater dune field, Mars. Geophysical Research Letters, 2006, 33, .	4.0	65

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37	Aeolian processes in Proctor Crater on Mars: Mesoscale modeling of dune-forming winds. Journal of Geophysical Research, 2005, 110, .	3.3	68
38	Potential sand sources for the dune fields in Noachis Terra, Mars. Journal of Geophysical Research, 2005, 110, .	3.3	38
39	Aeolian processes in Proctor Crater on Mars: Sedimentary history as analyzed from multiple data sets. Journal of Geophysical Research, 2003, 108, .	3.3	94
40	Martian surface winds: Insensitivity to orbital changes and implications for aeolian processes. Journal of Geophysical Research, 2001, 106, 32885-32902.	3.3	67
41	Topography and Stratigraphy of the Northern Martian Polar Layered Deposits Using Photoclinometry, Stereogrammetry, and MOLA Altimetry. Icarus, 2000, 147, 433-443.	2.5	21
42	Mapping Mariner 9 Dust Opacities. Icarus, 1997, 130, 115-124.	2.5	27