

# Lori K Fenton

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,763  
citations

257450

24  
h-index

265206

42  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mars Global Digital Dune Database and initial science results. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	180
2	Extraterrestrial dunes: An introduction to the special issue on planetary dune systems. <i>Geomorphology</i> , 2010, 121, 1-14.	2.6	144
3	Pervasive aeolian activity along rover Curiosity's traverse in Gale Crater, Mars. <i>Geology</i> , 2013, 41, 483-486.	4.4	110
4	Aeolian processes in Proctor Crater on Mars: Sedimentary history as analyzed from multiple data sets. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	94
5	Global warming and climate forcing by recent albedo changes on Mars. <i>Nature</i> , 2007, 446, 646-649.	27.8	89
6	Southern high latitude dune fields on Mars: Morphology, aeolian inactivity, and climate change. <i>Geomorphology</i> , 2010, 121, 98-121.	2.6	86
7	Mars Global Digital Dune Database (MGD3): Global dune distribution and wind pattern observations. <i>Icarus</i> , 2014, 230, 38-46.	2.5	70
8	Aeolian processes in Proctor Crater on Mars: Mesoscale modeling of dune-forming winds. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	68
9	Martian surface winds: Insensitivity to orbital changes and implications for aeolian processes. <i>Journal of Geophysical Research</i> , 2001, 106, 32885-32902.	3.3	67
10	Dune migration and slip face advancement in the Rabe Crater dune field, Mars. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	65
11	Field measurements of horizontal forward motion velocities of terrestrial dust devils: Towards a proxy for ambient winds on Mars and Earth. <i>Icarus</i> , 2012, 221, 632-645.	2.5	51
12	Persistent aeolian activity at Endeavour crater, Meridiani Planum, Mars; new observations from orbit and the surface. <i>Icarus</i> , 2015, 251, 275-290.	2.5	49
13	Dust devil height and spacing with relation to the martian planetary boundary layer thickness. <i>Icarus</i> , 2015, 260, 246-262.	2.5	48
14	Boundary condition controls on the high-sand-flux regions of Mars. <i>Geology</i> , 2019, 47, 427-430.	4.4	43
15	Aeolian dunes as ground truth for atmospheric modeling on Mars. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	40
16	Potential sand sources for the dune fields in Noachis Terra, Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	38
17	Orbital Observations of Dust Lofted by Daytime Convective Turbulence. <i>Space Science Reviews</i> , 2016, 203, 89-142.	8.1	35
18	Patterns in Mobility and Modification of Middle- and High-Latitude Southern Hemisphere Dunes on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3205-3219.	3.6	35

#	ARTICLE	IF	CITATIONS
19	Dust Devil Formation. <i>Space Science Reviews</i> , 2016, 203, 183-207.	8.1	34
20	Late Amazonian aeolian features, gradation, wind regimes, and Sediment State in the Vicinity of the Mars Exploration Rover Opportunity, Meridiani Planum, Mars. <i>Aeolian Research</i> , 2015, 16, 75-99.	2.7	33
21	Dust Devil Tracks. <i>Space Science Reviews</i> , 2016, 203, 143-181.	8.1	32
22	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. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
23	Mapping Mariner 9 Dust Opacities. <i>Icarus</i> , 1997, 130, 115-124.	2.5	27
24	Aeolian dune sediment flux heterogeneity in Meridiani Planum, Mars. <i>Aeolian Research</i> , 2017, 26, 73-88.	2.7	26
25	Inverse maximum gross bedform-normal transport 1: How to determine a dune-constructing wind regime using only imagery. <i>Icarus</i> , 2014, 230, 5-14.	2.5	24
26	Interpretation of the complex dune morphology on Mars: dune activity, modelling and a terrestrial analogue. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1424-1436.	2.5	23
27	Topography and Stratigraphy of the Northern Martian Polar Layered Deposits Using Photoclinometry, Stereogrammetry, and MOLA Altimetry. <i>Icarus</i> , 2000, 147, 433-443.	2.5	21
28	Object-based Dune Analysis: Automated dune mapping and pattern characterization for Ganges Chasma and Gale crater, Mars. <i>Geomorphology</i> , 2015, 250, 128-139.	2.6	21
29	Shifting sands on Mars: insights from tropical intra-crater dunes. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 407-412.	2.5	19
30	Inverse maximum gross bedform-normal transport 2: Application to a dune field in Ganges Chasma, Mars and comparison with HiRISE repeat imagery and MRAMS. <i>Icarus</i> , 2014, 230, 47-63.	2.5	18
31	Orbital monitoring of martian surface changes. <i>Icarus</i> , 2016, 278, 279-300.	2.5	18
32	Updating the global inventory of dune fields on Mars and identification of many small dune fields. <i>Icarus</i> , 2020, 352, 114018.	2.5	18
33	Climate Forcing of Ripple Migration and Crest Alignment in the Last 400 kyr in Meridiani Planum, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 849-863.	3.6	16
34	Ancient Martian Aeolian Sand Dune Deposits Recorded in the Stratigraphy of Valles Marineris and Implications for Past Climates. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006510.	3.6	16
35	Summary of the Second International Planetary Dunes Workshop: Planetary Analogs – Integrating Models, Remote Sensing, and Field Data, Alamosa, Colorado, USA, May 18–21, 2010. <i>Aeolian Research</i> , 2010, 2, 173-178.	2.7	12
36	The Mars Global Digital Dune Database (MGD3): Global patterns of mineral composition and bedform stability. <i>Icarus</i> , 2019, 330, 189-203.	2.5	12

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37	Sedimentary differentiation of aeolian grains at the White Sands National Monument, New Mexico, USA. <i>Aeolian Research</i> , 2017, 26, 117-136.	2.7	10
38	The albedo of martian dunes: Insights into aeolian activity and dust devil formation. <i>Aeolian Research</i> , 2017, 26, 89-100.	2.7	7
39	Martian Dust. , 2022, , 637-666.		6
40	The Geologic Exploration of the Bagnold Dune Field at Gale Crater by the Curiosity Rover. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2216-2222.	3.6	5
41	Transverse Aeolian Ridge Growth Mechanisms and Pattern Evolution in Scandia Cavi, Mars. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	5
42	Summary of the Third International Planetary Dunes Workshop: Remote Sensing and Image Analysis of Planetary Dunes, Flagstaff, Arizona, USA, June 12â€“15, 2012. <i>Aeolian Research</i> , 2013, 8, 29-38.	2.7	3