

Mikhail A Kreslavsky

List of Publications by Year in descending order

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71
papers

5,182
citations

117453

34
h-index

95083

68
g-index

75
all docs

75
docs citations

75
times ranked

2502
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent ice ages on Mars. <i>Nature</i> , 2003, 426, 797-802.	13.7	705
2	Possible Ancient Oceans on Mars: Evidence from Mars Orbiter Laser Altimeter Data. <i>Science</i> , 1999, 286, 2134-2137.	6.0	379
3	Tropical to mid-latitude snow and ice accumulation, flow and glaciation on Mars. <i>Nature</i> , 2005, 434, 346-351.	13.7	352
4	Kilometer-scale roughness of Mars: Results from MOLA data analysis. <i>Journal of Geophysical Research</i> , 2000, 105, 26695-26711.	3.3	313
5	Northern lowlands of Mars: Evidence for widespread volcanic flooding and tectonic deformation in the Hesperian Period. <i>Journal of Geophysical Research</i> , 2002, 107, 3-1.	3.3	238
6	Extensive valley glacier deposits in the northern mid-latitudes of Mars: Evidence for Late Amazonian obliquity-driven climate change. <i>Earth and Planetary Science Letters</i> , 2006, 241, 663-671.	1.8	188
7	Mars: Nature and evolution of young latitude-dependent water-ice-rich mantle. <i>Geophysical Research Letters</i> , 2002, 29, 14-1-14-4.	1.5	180
8	Fate of outflow channel effluents in the northern lowlands of Mars: The Vastitas Borealis Formation as a sublimation residue from frozen ponded bodies of water. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1-4-25.	3.3	166
9	Opposition Effect from Clementine Data and Mechanisms of Backscatter. <i>Icarus</i> , 1999, 141, 132-155.	1.1	160
10	Global surface slopes and roughness of the Moon from the Lunar Orbiter Laser Altimeter. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	149
11	Martian gullies in the southern mid-latitudes of Mars: Evidence for climate-controlled formation of young fluvial features based upon local and global topography. <i>Icarus</i> , 2007, 188, 315-323.	1.1	147
12	Formation of gullies on Mars: Link to recent climate history and insolation microenvironments implicate surface water flow origin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13258-13263.	3.3	137
13	Slope streaks on Mars: A new "wet" mechanism. <i>Icarus</i> , 2009, 201, 517-527.	1.1	124
14	A Critical review of theoretical models of negatively polarized light scattered by atmosphereless solar system bodies. <i>Earth, Moon and Planets</i> , 1994, 65, 201-246.	0.3	116
15	Periods of active permafrost layer formation during the geological history of Mars: Implications for circum-polar and mid-latitude surface processes. <i>Planetary and Space Science</i> , 2008, 56, 289-302.	0.9	108
16	Oceans in the past history of Mars: Tests for their presence using Mars Orbiter Laser Altimeter (MOLA) data. <i>Geophysical Research Letters</i> , 1998, 25, 4401-4404.	1.5	104
17	Kilometer-scale slopes on Mars and their correlation with geologic units: Initial results from Mars Orbiter Laser Altimeter (MOLA) data. <i>Journal of Geophysical Research</i> , 1999, 104, 21911-21924.	3.3	90
18	Lunar topographic roughness maps from Lunar Orbiter Laser Altimeter (LOLA) data: Scale dependence and correlation with geologic features and units. <i>Icarus</i> , 2013, 226, 52-66.	1.1	90

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19	The structure of the regolith on 67P/Churyumov-Gerasimenko from ROLIS descent imaging. <i>Science</i> , 2015, 349, aab0232.	6.0	86
20	Near-tropical subsurface ice on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	79
21	Geologic interpretation of the near-infrared images of the surface taken by the Venus Monitoring Camera, Venus Express. <i>Icarus</i> , 2012, 217, 434-450.	1.1	62
22	Recent high-latitude icy mantle in the northern plains of Mars: Characteristics and ages of emplacement. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	61
23	Principle of Undulatory Invariance in Photometry of Atmosphereless Celestial Bodies. <i>Icarus</i> , 1994, 109, 168-190.	1.1	59
24	Latitudinal variation in spectral properties of the lunar maria and implications for space weathering. <i>Icarus</i> , 2015, 261, 66-79.	1.1	54
25	North-south topographic slope asymmetry on Mars: Evidence for insolation-related erosion at high obliquity. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	53
26	Polarimetric and photometric properties of the Moon: Telescopic observations and laboratory simulations. <i>Icarus</i> , 1992, 95, 283-299.	1.1	51
27	Photometric anomalies of the lunar surface studied with SMART-1 AMIE data. <i>Icarus</i> , 2009, 202, 393-413.	1.1	48
28	Morphometry of small impact craters in the Lunokhod-1 and Lunokhod-2 study areas. <i>Planetary and Space Science</i> , 2014, 92, 77-87.	0.9	46
29	Ina pit crater on the Moon: Extrusion of waning-stage lava lake magmatic foam results in extremely young crater retention ages. <i>Geology</i> , 2017, 45, 455-458.	2.0	44
30	The comparison of topographic long profiles of gullies on Earth to gullies on Mars: A signal of water on Mars. <i>Icarus</i> , 2015, 253, 189-204.	1.1	43
31	The resurfacing history of Venus: Constraints from buffered crater densities. <i>Icarus</i> , 2015, 250, 438-450.	1.1	42
32	Kilometer-scale topographic roughness of Mercury: Correlation with geologic features and units. <i>Geophysical Research Letters</i> , 2014, 41, 8245-8251.	1.5	39
33	Ice concentration and distribution near the south pole of Mars: Synthesis of odyssey and global surveyor analyses. <i>Geophysical Research Letters</i> , 2002, 29, 10-1-10-4.	1.5	38
34	Topographic measurements of slope streaks on Mars. <i>Icarus</i> , 2016, 278, 52-61.	1.1	34
35	Mars at very low obliquity: Atmospheric collapse and the fate of volatiles. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	33
36	Modification of impact craters in the northern plains of Mars: Implications for Amazonian climate history. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1633-1646.	0.7	33

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37	Our evolving understanding of aeolian bedforms, based on observation of dunes on different worlds. <i>Aeolian Research</i> , 2017, 26, 5-27.	1.1	33
38	New observational evidence of global seismic effects of basin-forming impacts on the Moon from Lunar Reconnaissance Orbiter Lunar Orbiter Laser Altimeter data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
39	Possible mechanism of boulder clustering on Mars. <i>Icarus</i> , 2013, 225, 992-999.	1.1	29
40	Distribution of Tessera Terrain on Venus: Prediction for Magellan. <i>Geophysical Research Letters</i> , 1990, 17, 171-174.	1.5	28
41	High-latitude cold-based glacial deposits on Mars: Multiple superposed drop moraines in a crater interior at 70°N latitude. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1659-1674.	0.7	28
42	Morphometry of wrinkle ridges on Venus: Comparison with other planets. <i>Journal of Geophysical Research</i> , 1998, 103, 11103-11111.	3.3	27
43	Pitted rock surfaces on Mars: A mechanism of formation by transient melting of snow and ice. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
44	Carbon dioxide glaciers on Mars: Products of recent low obliquity epochs (?). <i>Icarus</i> , 2011, 216, 111-115.	1.1	25
45	The steepest slopes on the Moon from Lunar Orbiter Laser Altimeter (LOLA) Data: Spatial Distribution and Correlation with Geologic Features. <i>Icarus</i> , 2016, 273, 329-336.	1.1	25
46	Title is missing!. <i>Solar System Research</i> , 2001, 35, 29-34.	0.3	22
47	Search for ongoing volcanic activity on Venus: Case study of Maat Mons, Sapas Mons and Ozza Mons volcanoes. <i>Planetary and Space Science</i> , 2012, 73, 294-301.	0.9	22
48	Hubble Space Telescope imaging polarimetry of Mars during the 2003 opposition. <i>Icarus</i> , 2005, 176, 1-11.	1.1	21
49	Lunar Orientale Impact Basin Secondary Craters: Spatial Distribution, Size-Frequency Distribution, and Estimation of Fragment Size. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1344-1367.	1.5	18
50	Patterned ground in martian high northern latitudes: Morphology and age constraints. <i>Icarus</i> , 2013, 225, 960-970.	1.1	17
51	Small impact craters in the polar regions of the Moon: Peculiarities of morphometric characteristics. <i>Solar System Research</i> , 2015, 49, 295-302.	0.3	16
52	North-south roughness anisotropy on Venus from the Magellan Radar Altimeter: Correlation with geology. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	15
53	Mars Climate History: Insights From Impact Crater Wall Slope Statistics. <i>Geophysical Research Letters</i> , 2018, 45, 1751-1758.	1.5	15
54	A possible interpretation of bright features on the surface of Phobos. <i>Planetary and Space Science</i> , 1991, 39, 341-347.	0.9	13

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55	Low-amplitude topographic features and textures on the Moon: Initial results from detrended Lunar Orbiter Laser Altimeter (LOLA) topography. <i>Icarus</i> , 2017, 283, 138-145.	1.1	13
56	Assessing the Roughness Properties of Circumpolar Lunar Craters: Implications for the Timing of Water-Ice Delivery to the Moon. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087782.	1.5	13
57	Surface Roughness and Gravitational Slope Distributions of Vesta and Ceres. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 14-30.	1.5	12
58	Regolith textures on Mercury: Comparison with the Moon. <i>Icarus</i> , 2020, 351, 113945.	1.1	10
59	Distribution and Characteristics of Boulder Halos at High Latitudes on Mars: Ground Ice and Surface Processes Drive Surface Reworking. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 322-334.	1.5	9
60	Quantitative Characterization of Impact Crater Materials on the Moon: Changes in Topographic Roughness and Thermophysical Properties With Age. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006091.	1.5	9
61	Measurements of winds on Mars with Hubble Space Telescope images in 2003 opposition. <i>Icarus</i> , 2006, 185, 97-101.	1.1	8
62	Heat loss and tectonic style of Venus. <i>Earth, Moon and Planets</i> , 1992, 58, 1-29.	0.3	6
63	Surface properties and surficial deposits on Venus: New results from Magellan radar altimeter data analysis. <i>Icarus</i> , 2018, 309, 162-176.	1.1	6
64	Summary of the Mars recent climate change workshop NASA/Ames Research Center, May 15-17, 2012. <i>Icarus</i> , 2013, 222, 415-418.	1.1	5
65	Has the impact flux of small and large asteroids varied through time on Mars, the Earth and the Moon?. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117362.	1.8	5
66	The SMART-1 Mission: Photometric Studies of the Moon with the AMIE Camera. <i>Solar System Research</i> , 2003, 37, 251-259.	0.3	4
67	Boulders on Mercury. <i>Icarus</i> , 2021, 369, 114628.	1.1	3
68	Impact-Caused Regolith Reworking within the Polar Regions of the Moon. <i>Solar System Research</i> , 2022, 56, 155-163.	0.3	1
69	Microdune. , 2014, , 1-3.		0
70	Triangular Scar (Mars). , 2015, , 2192-2194.		0
71	Microdune. , 2015, , 1370-1372.		0