Ganna Portyankina

List of Publications by Year
in descending order

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39 papers	1,326 citations	394421 19 h-index	361022 35 g-index
42 all docs	42 docs citations	42 times ranked	993 citing authors

#	Article	IF	Citations
1	Seasonal Erosion and Restoration of Marsâ€™ Northern Polar Dunes. Science, 2011, 331, 575-578.	12.6	205
2	Evidence from the Mars Express High Resolution Stereo Camera for a frozen sea close to Mars' equator. Nature, 2005, 434, 352-356.	27.8	201
3	Observations of the northern seasonal polar cap on Mars: I. Spring sublimation activity and processes. Icarus, 2013, 225, 881-897.	2.5	109
4	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: I. Erosion of the surface. Icarus, 2010, 205, 283-295.	2.5	84
5	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: II. Surficial deposits and their origins. Icarus, 2010, 205, 296-310.	2.5	63
6	Agents of change on Marsâ€™ northern dunes: CO2 ice and wind. Icarus, 2015, 251, 264-274.	2.5	63
7	Water and related chemistry in the solar system. A guaranteed time key programme for Herschel. Planetary and Space Science, 2009, 57, 1596-1606.	1.7	58
8	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: III. Models of processes involving translucent ice. Icarus, 2010, 205, 311-320.	2.5	53
9	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. Geomorphology, 2021, 380, 107627.	2.6	40
10	Evolution of south seasonal cap during Martian spring: Insights from high-resolution observations by HiRISE and CRISM on Mars Reconnaissance Orbiter. Journal of Geophysical Research, 2011, 116, .	3.3	36
11	An Environmental Wind Tunnel Facility for Testing Meteorological Sensor Systems. Journal of Atmospheric and Oceanic Technology, 2014, 31, 447-457.	1.3	35
12	Photometry and bulk physical properties of Solar System surfaces icy analogs: The Planetary Ice Laboratory at University of Bern. Planetary and Space Science, 2011, 59, 1601-1612.	1.7	33
13	Present-day erosion of Martian polar terrain by the seasonal CO2 jets. Icarus, 2017, 282, 93-103.	2.5	33
14	Polygonal cracks in the seasonal semiâ€translucent CO₂ ice layer in Martian polar areas. Journal of Geophysical Research, 2012, 117, .	3.3	29
15	The composition and structure of Enceladus' plume from the complete set of Cassini UVIS occultation observations. Icarus, 2020, 344, 113461.	2.5	29
16	HiRISE observations of gas sublimation-driven activity in Marsâ€™ southern polar regions: IV. Fluid dynamics models of CO2 jets. Icarus, 2011, 212, 66-85.	2.5	27
17	Observations of the northern seasonal polar cap on Mars III: CRISM/HiRISE observations of spring sublimation. Icarus, 2013, 225, 911-922.	2.5	25
18	Planet Four: Terrains â€“ Discovery of araneiforms outside of the South Polar layered deposits. Icarus, 2018, 308, 148-187.	2.5	23

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19	Investigation of diurnal variability of water vapor in Enceladus' plume by the Cassini ultraviolet imaging spectrograph. Geophysical Research Letters, 2017, 44, 672-677.	4.0	20
20	Planet Four: Probing springtime winds on Mars by mapping the southern polar CO2 jet deposits. Icarus, 2019, 319, 558-598.	2.5	18
21	6th international conference on Mars polar science and exploration: Conference summary and five top questions. Icarus, 2018, 308, 2-14.	2.5	17
22	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	3.6	17
23	Sub-surface CO₂gas flow in Mars' polar regions: Gas transport under constant production rate conditions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	15
24	Spatial variations in the dust-to-gas ratio of Enceladusâ€™ plume. Icarus, 2018, 305, 123-138.	2.5	15
25	Observations of the northern seasonal polar cap on Mars II: HiRISE photometric analysis of evolution of northern polar dunes in spring. Icarus, 2013, 225, 898-910.	2.5	12
26	Revealing Active Mars with HiRISE Digital Terrain Models. Remote Sensing, 2022, 14, 2403.	4.0	11
27	Variability of spider spatial configuration at the Martian south pole. Planetary and Space Science, 2020, 185, 104848.	1.7	10
28	How martian araneiforms get their shapes: morphological analysis and diffusion-limited aggregation model for polar surface erosion. Icarus, 2020, 342, 113217.	2.5	8
29	Multiband photometry of Martian Recurring Slope Lineae (RSL) and dust-removed features at Horowitz crater, Mars from TGO/CaSSIS color observations. Planetary and Space Science, 2022, 214, 105443.	1.7	8
30	The evolution of exposed ice in a fresh mid-latitude crater on Mars. Icarus, 2011, 211, 195-206.	2.5	7
31	Laboratory investigations of the physical state of CO2 ice in a simulated Martian environment. Icarus, 2019, 322, 210-220.	2.5	7
32	Past, Present, and Future of Mars Polar Science: Outcomes and Outlook from the 7th International Conference on Mars Polar Science and Exploration. Planetary Science Journal, 2021, 2, 209.	3.6	6
33	The Exotic Processes Driving Ephemeral Seasonal Surface Change on Mars. , 2018, , 157-186.		2
34	Irregular polygonal ridge networks in ancient Noachian terrain on Mars. Icarus, 2021, 374, 114833.	2.5	2
35	Planet Four: Derived South Polar Martian Winds Interpreted Using Mesoscale Modeling. Planetary Science Journal, 2022, 3, 31.	3.6	2
36	Current Activity on the Martian Surface: A Key Subject for Future Exploration. , 2021, 53, .		1

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37	The Importance of the Climate Record in the Martian Polar Layered Deposits. , 2021, 53, .		1
38	Modeling the complete set of Cassiniâ€™s UVIS occultation observations of Enceladusâ€™ plume. Icarus, 2022, 383, 114918.	2.5	1
39	CO2-Driven Geomorphological Processes. , 2018, , 187-205.		0