

Ganna Portyankina

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multiband photometry of Martian Recurring Slope Lineae (RSL) and dust-removed features at Horowitz crater, Mars from TGO/CaSSIS color observations. <i>Planetary and Space Science</i> , 2022, 214, 105443.	1.7	8
2	Planet Four: Derived South Polar Martian Winds Interpreted Using Mesoscale Modeling. <i>Planetary Science Journal</i> , 2022, 3, 31.	3.6	2
3	Modeling the complete set of Cassini's UVIS occultation observations of Enceladus' plume. <i>Icarus</i> , 2022, 383, 114918.	2.5	1
4	Revealing Active Mars with HiRISE Digital Terrain Models. <i>Remote Sensing</i> , 2022, 14, 2403.	4.0	11
5	Current Activity on the Martian Surface: A Key Subject for Future Exploration. , 2021, 53, .		1
6	The Importance of the Climate Record in the Martian Polar Layered Deposits. , 2021, 53, .		1
7	Modern Mars' geomorphological activity, driven by wind, frost, and gravity. <i>Geomorphology</i> , 2021, 380, 107627.	2.6	40
8	Active Mars: A Dynamic World. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006876.	3.6	17
9	Past, Present, and Future of Mars Polar Science: Outcomes and Outlook from the 7th International Conference on Mars Polar Science and Exploration. <i>Planetary Science Journal</i> , 2021, 2, 209.	3.6	6
10	Irregular polygonal ridge networks in ancient Noachian terrain on Mars. <i>Icarus</i> , 2021, 374, 114833.	2.5	2
11	How martian araneiforms get their shapes: morphological analysis and diffusion-limited aggregation model for polar surface erosion. <i>Icarus</i> , 2020, 342, 113217.	2.5	8
12	The composition and structure of Enceladus' plume from the complete set of Cassini UVIS occultation observations. <i>Icarus</i> , 2020, 344, 113461.	2.5	29
13	Variability of spider spatial configuration at the Martian south pole. <i>Planetary and Space Science</i> , 2020, 185, 104848.	1.7	10
14	Laboratory investigations of the physical state of CO ₂ ice in a simulated Martian environment. <i>Icarus</i> , 2019, 322, 210-220.	2.5	7
15	Planet Four: Probing springtime winds on Mars by mapping the southern polar CO ₂ jet deposits. <i>Icarus</i> , 2019, 319, 558-598.	2.5	18
16	Spatial variations in the dust-to-gas ratio of Enceladus' plume. <i>Icarus</i> , 2018, 305, 123-138.	2.5	15
17	Planet Four: Terrains "Discovery of araneiforms outside of the South Polar layered deposits. <i>Icarus</i> , 2018, 308, 148-187.	2.5	23
18	6th international conference on Mars polar science and exploration: Conference summary and five top questions. <i>Icarus</i> , 2018, 308, 2-14.	2.5	17

#	ARTICLE	IF	CITATIONS
19	The Exotic Processes Driving Ephemeral Seasonal Surface Change on Mars. , 2018, , 157-186.		2
20	CO2-Driven Geomorphological Processes. , 2018, , 187-205.		0
21	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
22	Present-day erosion of Martian polar terrain by the seasonal CO2 jets. Icarus, 2017, 282, 93-103.	2.5	33
23	Agents of change on Mars's northern dunes: CO2 ice and wind. Icarus, 2015, 251, 264-274.	2.5	63
24	An Environmental Wind Tunnel Facility for Testing Meteorological Sensor Systems. Journal of Atmospheric and Oceanic Technology, 2014, 31, 447-457.	1.3	35
25	Observations of the northern seasonal polar cap on Mars: I. Spring sublimation activity and processes. Icarus, 2013, 225, 881-897.	2.5	109
26	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
27	Observations of the northern seasonal polar cap on Mars III: CRISM/HiRISE observations of spring sublimation. Icarus, 2013, 225, 911-922.	2.5	25
28	Polygonal cracks in the seasonal semi-transparent CO ₂ ice layer in Martian polar areas. Journal of Geophysical Research, 2012, 117, .	3.3	29
29	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
30	Sub-surface CO ₂ gas flow in Mars' polar regions: Gas transport under constant production rate conditions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	15
31	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
32	The evolution of exposed ice in a fresh mid-latitude crater on Mars. Icarus, 2011, 211, 195-206.	2.5	7
33	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: IV. Fluid dynamics models of CO2 jets. Icarus, 2011, 212, 66-85.	2.5	27
34	Seasonal Erosion and Restoration of Mars's Northern Polar Dunes. Science, 2011, 331, 575-578.	12.6	205
35	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: II. Surficial deposits and their origins. Icarus, 2010, 205, 296-310.	2.5	63
36	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: I. Erosion of the surface. Icarus, 2010, 205, 283-295.	2.5	84

#	ARTICLE	IF	CITATIONS
37	HiRISE observations of gas sublimation-driven activity in Mars's southern polar regions: III. Models of processes involving translucent ice. <i>Icarus</i> , 2010, 205, 311-320.	2.5	53
38	Water and related chemistry in the solar system. A guaranteed time key programme for Herschel. <i>Planetary and Space Science</i> , 2009, 57, 1596-1606.	1.7	58
39	Evidence from the Mars Express High Resolution Stereo Camera for a frozen sea close to Mars' equator. <i>Nature</i> , 2005, 434, 352-356.	27.8	201