Patricio Becerra

List of Publications by Year
in descending order

27	383	759233 12	794594 19
papers	citations	h-index	g-index

32	32	32	473
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The oxidation state of nanophase Fe particles in lunar soil: Implications for space weathering. Meteoritics and Planetary Science, 2016, 51, 1082-1095.	1.6	49
2	Signals of astronomical climate forcing in the exposure topography of the North Polar Layered Deposits of Mars. Geophysical Research Letters, 2017, 44, 62-70.	4.0	36
3	The Holy Grail: A road map for unlocking the climate record stored within Marsâ€™ polar layered deposits. Planetary and Space Science, 2020, 184, 104841.	1.7	30
4	Martian north polar cap summer water cycle. Icarus, 2016, 277, 401-415.	2.5	29
5	Stratigraphy of the north polar layered deposits of Mars from highâ€resolution topography. Journal of Geophysical Research E: Planets, 2016, 121, 1445-1471.	3.6	28
6	Implications for the origin and evolution of Martian Recurring Slope Lineae at Hale crater from CaSSIS observations. Planetary and Space Science, 2020, 187, 104947.	1.7	28
7	Transient bright â€œhalosâ€•on the South Polar Residual Cap of Mars: Implications for mass-balance. Icarus, 2015, 251, 211-225.	2.5	26
8	Timescales of the Climate Record in the South Polar Ice Cap of Mars. Geophysical Research Letters, 2019, 46, 7268-7277.	4.0	26
9	Image Simulation and Assessment of the Colour and Spatial Capabilities of the Colour and Stereo Surface Imaging System (CaSSIS) on the ExoMars Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	24
10	The brightening of Saturnâ€™s F ring. Icarus, 2012, 219, 181-193.	2.5	23
11	6th international conference on Mars polar science and exploration: Conference summary and five top questions. Icarus, 2018, 308, 2-14.	2.5	17
12	Active Mars: A Dynamic World. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006876.	3.6	17
13	A laboratory-based dielectric model for the radar sounding of the martian subsurface. Icarus, 2019, 321, 960-973.	2.5	11
14	Islands of ice on Mars and Pluto. Journal of Geophysical Research E: Planets, 2019, 124, 2522-2542.	3.6	7
15	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
16	CaSSIS color and multi-angular observations of Martian slope streaks. Planetary and Space Science, 2021, 209, 105373.	1.7	6
17	Orbital Forcing of Martian Climate Revealed in a South Polar Outlier Ice Deposit. Geophysical Research Letters, 2022, 49, .	4.0	6
18	Mars polar science at the end of the world. Nature Astronomy, 2020, 4, 566-568.	10.1	3

#	Article	IF	Citations
19	Solar-System-Wide Significance of Mars Polar Science. , 2021, 53, .		2
20	Mid-Latitude Ice on Mars: A Science Target for Planetary Climate Histories and an Exploration Target for In Situ Resources. , 2021, 53, .		2
21	The case for a multi-channel polarization sensitive LIDAR for investigation of insolation-driven ices and atmospheres. , 2021, 53, .		1
22	The Importance of the Climate Record in the Martian Polar Layered Deposits. , 2021, 53, .		1
23	A Comparative View of Glacial and Periglacial Landforms on Earth and Mars. , 2021, 53, .		1
24	Mars and the ESA Science Programme - the case for Mars polar science. Experimental Astronomy, 2022, 54, 677-693.	3.7	1
25	Gutta. , 2014, , 1-4.		0
26	Dielectric Spectroscopy Measurements of Saline Aqueous Solutions in the VHF-UHF Bands: Toward a Dielectric Model of Icy Satellite Water Reservoirs. , 2018, , .		0
27	Gutta. , 2015, , 908-910.		0