

# John Holt

## List of Publications by Year in descending order

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45  
papers

3,031  
citations

186254

28  
h-index

233409

45  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	The north polar basal unit of Mars: An Amazonian record of surface processes and climate events. <i>Icarus</i> , 2022, 373, 114716.	2.5	9
2	Martian Mantle Heat Flow Estimate From the Lack of Lithospheric Flexure in the South Pole of Mars: Implications for Planetary Evolution and Basal Melting. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091409.	4.0	18
3	The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. <i>Planetary Science Journal</i> , 2021, 2, 76.	3.6	2
4	A Solid Interpretation of Bright Radar Reflectors Under the Mars South Polar Ice. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093618.	4.0	29
5	Sparse subsurface radar reflectors in Hellas Planitia, Mars. <i>Icarus</i> , 2020, 348, 113847.	2.5	4
6	The Holy Grail: A road map for unlocking the climate record stored within Mars's polar layered deposits. <i>Planetary and Space Science</i> , 2020, 184, 104841.	1.7	30
7	Radar Reflectivity as a Proxy for the Dust Content of Individual Layers in the Martian North Polar Layered Deposits. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1690-1703.	3.6	25
8	Buried Ice and Sand Caps at the North Pole of Mars: Revealing a Record of Climate Change in the Cavi Unit With SHARAD. <i>Geophysical Research Letters</i> , 2019, 46, 7278-7286.	4.0	35
9	Exposed subsurface ice sheets in the Martian mid-latitudes. <i>Science</i> , 2018, 359, 199-201.	12.6	174
10	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.	3.6	9
11	Sequence architecture of the cavi unit, Chasma Boreale, Mars. <i>Icarus</i> , 2018, 308, 42-60.	2.5	10
12	Earliest accumulation history of the north polar layered deposits, Mars from SHARAD. <i>Icarus</i> , 2018, 308, 128-137.	2.5	11
13	High Ice Purity of Martian Lobate Debris Aprons at the Regional Scale: Evidence From an Orbital Radar Sounding Survey in Deuteronilus and Protonilus Mensae. <i>Geophysical Research Letters</i> , 2018, 45, 11,595.	4.0	41
14	New Magnetic Anomaly Map of the Antarctic. <i>Geophysical Research Letters</i> , 2018, 45, 6437-6449.	4.0	78
15	New Martian climate constraints from radar reflectivity within the north polar layered deposits. <i>Geophysical Research Letters</i> , 2017, 44, 657-664.	4.0	18
16	Geometry and ice dynamics of the Darwin-Hatherton glacial system, Transantarctic Mountains. <i>Journal of Glaciology</i> , 2017, 63, 959-972.	2.2	4
17	Three-dimensional structure and origin of a 1.8-km thick ice dome within Korolev Crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 1443-1449.	4.0	10
18	An ice age recorded in the polar deposits of Mars. <i>Science</i> , 2016, 352, 1075-1078.	12.6	81

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19	SHARAD detection and characterization of subsurface water ice deposits in Utopia Planitia, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 9484-9491.	4.0	110
20	Constraints on the formation and properties of a Martian lobate debris apron: Insights from high-resolution topography, SHARAD radar data, and a numerical ice flow model. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 432-453.	3.6	10
21	Surface Clutter and Echo Location Analysis for the Interpretation of SHARAD Data From Mars. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1285-1289.	3.1	49
22	Planum Boreum basal unit topography, Mars: Irregularities and insights from SHARAD. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1357-1375.	3.6	72
23	Spiral trough diversity on the north pole of Mars, as seen by Shallow Radar (SHARAD). <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 362-387.	3.6	33
24	Widespread excess ice in Arcadia Planitia, Mars. <i>Geophysical Research Letters</i> , 2015, 42, 6566-6574.	4.0	126
25	SHARAD soundings and surface roughness at past, present, and proposed landing sites on Mars: Reflections at Phoenix may be attributable to deep ground ice. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1936-1949.	3.6	43
26	Integrating radar stratigraphy with high resolution visible stratigraphy of the north polar layered deposits, Mars. <i>Icarus</i> , 2013, 226, 1241-1251.	2.5	40
27	The spiral troughs of Mars as cyclic steps. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1835-1857.	3.6	65
28	Orbital radar, imagery, and atmospheric modeling reveal an aeolian origin for Abalos Mensa, Mars. <i>Geophysical Research Letters</i> , 2013, 40, 1334-1339.	4.0	15
29	Shallow Radar (SHARAD), pedestal craters, and the lost Martian layers: Initial assessments. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
30	Testing for flow in the north polar layered deposits of Mars using radar stratigraphy and a simple 3D ice-flow model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	22
31	The construction of Chasma Boreale on Mars. <i>Nature</i> , 2010, 465, 446-449.	27.8	63
32	Subsurface structure of Planum Boreum from Mars Reconnaissance Orbiter Shallow Radar soundings. <i>Icarus</i> , 2009, 204, 443-457.	2.5	153
33	Dielectric properties of lava flows west of Ascraeus Mons, Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	57
34	Radar evidence for ice in lobate debris aprons in the mid-northern latitudes of Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	270
35	Using radar-sounding data to identify the distribution and sources of subglacial water: application to Dome C, East Antarctica. <i>Journal of Glaciology</i> , 2009, 55, 1025-1040.	2.2	55
36	Rapid, precise, and high-sensitivity acquisition of paleomagnetic and rock-magnetic data: Development of a low-noise automatic sample changing system for superconducting rock magnetometers. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	115

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37	First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	16
38	New airborne laser altimetry over the Thwaites Glacier catchment, West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	12
39	Mars North Polar Deposits: Stratigraphy, Age, and Geodynamical Response. <i>Science</i> , 2008, 320, 1182-1185.	12.6	271
40	Radar Sounding Evidence for Buried Glaciers in the Southern Mid-Latitudes of Mars. <i>Science</i> , 2008, 322, 1235-1238.	12.6	341
41	Radar-based subglacial lake classification in Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	115
42	Airborne gravity over Lake Vostok and adjacent highlands of East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	19
43	New boundary conditions for the West Antarctic Ice Sheet: Subglacial topography of the Thwaites and Smith glacier catchments. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	138
44	New boundary conditions for the West Antarctic ice sheet: Subglacial topography beneath Pine Island Glacier. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	146
45	Echo source discrimination in single-pass airborne radar sounding data from the Dry Valleys, Antarctica: Implications for orbital sounding of Mars. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	57