

Patrick McGovern

List of Publications by Year in descending order

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26
papers

2,374
citations

394421

19
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2080
citing authors

#	ARTICLE	IF	CITATIONS
1	The Global Topography of Mars and Implications for Surface Evolution. <i>Science</i> , 1999, 284, 1495-1503.	12.6	826
2	New Perspectives on Ancient Mars. <i>Science</i> , 2005, 307, 1214-1220.	12.6	265
3	Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. <i>Science</i> , 2013, 339, 675-678.	12.6	177
4	Thermal evolution of the Earth: effects of volatile exchange between atmosphere and interior. <i>Earth and Planetary Science Letters</i> , 1989, 96, 27-37.	4.4	147
5	Constraining the size of the South Pole-Aitken basin impact. <i>Icarus</i> , 2012, 220, 730-743.	2.5	131
6	GRAIL gravity constraints on the vertical and lateral density structure of the lunar crust. <i>Geophysical Research Letters</i> , 2014, 41, 5771-5777.	4.0	126
7	Olympus Mons aureole deposits: New evidence for a flank failure origin. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	93
8	Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. <i>Nature</i> , 2014, 514, 68-71.	27.8	85
9	Volcanic spreading and lateral variations in the structure of Olympus Mons, Mars. <i>Geology</i> , 2009, 37, 139-142.	4.4	79
10	The thermal evolution of Mars as constrained by paleo-heat flows. <i>Icarus</i> , 2011, 215, 508-517.	2.5	69
11	Gale Crater: Formation and post-impact hydrous environments. <i>Planetary and Space Science</i> , 2012, 70, 84-95.	1.7	67
12	Deep-seated thrust faults bound the Mare Crisium lunar mascon. <i>Earth and Planetary Science Letters</i> , 2015, 427, 183-190.	4.4	39
13	Elastic models of magma reservoir mechanics: a key tool for investigating planetary volcanism. <i>Geological Society Special Publication</i> , 2015, 401, 239-267.	1.3	37
14	Ring faults and ring dikes around the Orientale basin on the Moon. <i>Icarus</i> , 2018, 310, 1-20.	2.5	31
15	The early thermal and magnetic state of the cratered highlands of Mars. <i>Earth and Planetary Science Letters</i> , 2006, 241, 2-10.	4.4	27
16	Radial dike formation on Venus: Insights from models of uplift, flexure and magmatism. <i>Icarus</i> , 2013, 225, 538-547.	2.5	26
17	Flexural stresses beneath Hawaii: Implications for the October 15, 2006, earthquakes and magma ascent. <i>Geophysical Research Letters</i> , 2007, 34, n/a-n/a.	4.0	24
18	The influence of lithospheric flexure on magma ascent at large volcanoes on Venus. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2423-2437.	3.6	24

#	ARTICLE	IF	CITATIONS
19	Evidence for a differentiated crust in Solis Planum, Mars, from lithospheric strength and heat flow. <i>Icarus</i> , 2006, 180, 308-313.	2.5	20
20	Mantle fault zones beneath the Himalayan collision: Flexure of the continental lithosphere. <i>Tectonophysics</i> , 2009, 477, 66-76.	2.2	19
21	Lithospheric flexure and volcano basal boundary conditions: keys to the structural evolution of large volcanic edifices on the terrestrial planets. <i>Geological Society Special Publication</i> , 2015, 401, 219-237.	1.3	18
22	New constraints on volcano-tectonic evolution of large volcanic edifices on Venus from stereo topography-derived strain estimates. <i>Geology</i> , 2014, 42, 59-62.	4.4	15
23	Magma ascent pathways associated with large mountains on Io. <i>Icarus</i> , 2016, 272, 246-257.	2.5	10
24	Kunhild and Ereshkigal, an extinct hot-spot region on Venus. <i>Geophysical Research Letters</i> , 2000, 27, 839-842.	4.0	8
25	Tectonism and Enhanced Cryovolcanic Potential Around a Loaded Sputnik Planitia Basin, Pluto. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006964.	3.6	6
26	Circumferential graben and the structural evolution of Alba Mons, Mars. <i>Icarus</i> , 2014, 233, 114-125.	2.5	5