

# Patrick McGovern

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | Ring faults and ring dikes around the Orientale basin on the Moon. <i>Icarus</i> , 2018, 310, 1-20.                                                                                                                     | 2.5  | 31        |
| 3  | Magma ascent pathways associated with large mountains on Io. <i>Icarus</i> , 2016, 272, 246-257.                                                                                                                        | 2.5  | 10        |
| 4  | 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        |
| 5  | Deep-seated thrust faults bound the Mare Crisium lunar mascon. <i>Earth and Planetary Science Letters</i> , 2015, 427, 183-190.                                                                                         | 4.4  | 39        |
| 6  | 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        |
| 7  | 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        |
| 8  | Circumferential graben and the structural evolution of Alba Mons, Mars. <i>Icarus</i> , 2014, 233, 114-125.                                                                                                             | 2.5  | 5         |
| 9  | 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       |
| 10 | Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. <i>Nature</i> , 2014, 514, 68-71.                                                                                            | 27.8 | 85        |
| 11 | Radial dike formation on Venus: Insights from models of uplift, flexure and magmatism. <i>Icarus</i> , 2013, 225, 538-547.                                                                                              | 2.5  | 26        |
| 12 | Ancient Igneous Intrusions and Early Expansion of the Moon Revealed by GRAIL Gravity Gradiometry. <i>Science</i> , 2013, 339, 675-678.                                                                                  | 12.6 | 177       |
| 13 | 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        |
| 14 | Gale Crater: Formation and post-impact hydrous environments. <i>Planetary and Space Science</i> , 2012, 70, 84-95.                                                                                                      | 1.7  | 67        |
| 15 | Constraining the size of the South Pole-Aitken basin impact. <i>Icarus</i> , 2012, 220, 730-743.                                                                                                                        | 2.5  | 131       |
| 16 | The thermal evolution of Mars as constrained by paleo-heat flows. <i>Icarus</i> , 2011, 215, 508-517.                                                                                                                   | 2.5  | 69        |
| 17 | Volcanic spreading and lateral variations in the structure of Olympus Mons, Mars. <i>Geology</i> , 2009, 37, 139-142.                                                                                                   | 4.4  | 79        |
| 18 | Mantle fault zones beneath the Himalayan collision: Flexure of the continental lithosphere. <i>Tectonophysics</i> , 2009, 477, 66-76.                                                                                   | 2.2  | 19        |

| #  | ARTICLE                                                                                                                                                         | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | New Perspectives on Ancient Mars. <i>Science</i> , 2005, 307, 1214-1220.                                                                                        | 12.6 | 265       |
| 23 | Olympus Mons aureole deposits: New evidence for a flank failure origin. <i>Journal of Geophysical Research</i> , 2004, 109, .                                   | 3.3  | 93        |
| 24 | Kunhild and Ereshkigal, an extinct hot-spot region on Venus. <i>Geophysical Research Letters</i> , 2000, 27, 839-842.                                           | 4.0  | 8         |
| 25 | The Global Topography of Mars and Implications for Surface Evolution. <i>Science</i> , 1999, 284, 1495-1503.                                                    | 12.6 | 826       |
| 26 | 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       |