James W. Head

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| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 239 | Mars Orbiter Laser Altimeter: Experiment summary after the first year of global mapping of Mars. Journal of Geophysical Research, 2001 , 106, 23689-23722 | | 1094 |
| 238 | The global topography of Mars and implications for surface evolution. <i>Science</i> , 1999 , 284, 1495-503 | 33.3 | 718 |
| 237 | Recent ice ages on Mars. <i>Nature</i> , 2003 , 426, 797-802 | 50.4 | 608 |
| 236 | Ascent and eruption of basaltic magma on the Earth and Moon. <i>Journal of Geophysical Research</i> , 1981 , 86, 2971-3001 | | 548 |
| 235 | Geologic history of Mars. Earth and Planetary Science Letters, 2010 , 294, 185-203 | 5.3 | 431 |
| 234 | Formation of glaciers on Mars by atmospheric precipitation at high obliquity. <i>Science</i> , 2006 , 311, 368-71 | 33.3 | 356 |
| 233 | The timing of martian valley network activity: Constraints from buffered crater counting. <i>Icarus</i> , 2008 , 195, 61-89 | 3.8 | 322 |
| 232 | Valley network-fed, open-basin lakes on Mars: Distribution and implications for Noachian surface and subsurface hydrology. <i>Icarus</i> , 2008 , 198, 37-56 | 3.8 | 322 |
| 231 | Lunar mare volcanism: Stratigraphy, eruption conditions, and the evolution of secondary crusts. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 2155-2175 | 5.5 | 322 |
| 230 | Antarctic dry valleys: Microclimate zonation, variable geomorphic processes, and implications for assessing climate change on Mars. <i>Icarus</i> , 2007 , 192, 187-222 | 3.8 | 299 |
| 229 | Ages and stratigraphy of mare basalts in Oceanus Procellarum, Mare Nubium, Mare Cognitum, and Mare Insularum. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 279 |
| 228 | Initial observations from the Lunar Orbiter Laser Altimeter (LOLA). <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 273 |
| 227 | Kilometer-scale roughness of Mars: Results from MOLA data analysis. <i>Journal of Geophysical Research</i> , 2000 , 105, 26695-26711 | | 263 |
| 226 | Ages of mare basalts on the lunar nearside. <i>Journal of Geophysical Research</i> , 2000 , 105, 29239-29275 | | 262 |
| 225 | Lunar Mascon Basins: Lava filling, tectonics, and evolution of the lithosphere. <i>Reviews of Geophysics</i> , 1980 , 18, 107 | 23.1 | 249 |
| 224 | Lunar volcanism in space and time. <i>Reviews of Geophysics</i> , 1976 , 14, 265 | 23.1 | 249 |
| 223 | New perspectives on ancient Mars. <i>Science</i> , 2005 , 307, 1214-20 | 33.3 | 230 |

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| 222 | Clay minerals in delta deposits and organic preservation potential on Mars. <i>Nature Geoscience</i> , 2008 , 1, 355-358 | 18.3 | 227 |
|-----|---|------|-----|
| 221 | Amazonian northern mid-latitude glaciation on Mars: A proposed climate scenario. <i>Icarus</i> , 2009 , 203, 390-405 | 3.8 | 202 |
| 220 | Cold-based mountain glaciers on Mars: Western Arsia Mons. <i>Geology</i> , 2003 , 31, 641 | 5 | 179 |
| 219 | Topography of the northern hemisphere of Mars from the Mars Orbiter Laser Altimeter. <i>Science</i> , 1998 , 279, 1686-92 | 33.3 | 174 |
| 218 | Vertical movement in mare basins: Relation to mare emplacement, basin tectonics, and lunar thermal history. <i>Journal of Geophysical Research</i> , 1979 , 84, 1667 | | 168 |
| 217 | Mars: Nature and evolution of young latitude-dependent water-ice-rich mantle. <i>Geophysical Research Letters</i> , 2002 , 29, 14-1-14-4 | 4.9 | 151 |
| 216 | Global distribution of large lunar craters: implications for resurfacing and impactor populations. <i>Science</i> , 2010 , 329, 1504-7 | 33.3 | 150 |
| 215 | Transient reducing greenhouse warming on early Mars. <i>Geophysical Research Letters</i> , 2017 , 44, 665-671 | 4.9 | 137 |
| 214 | Rock types of South Pole-Aitken basin and extent of basaltic volcanism. <i>Journal of Geophysical Research</i> , 2001 , 106, 28001-28022 | | 133 |
| 213 | Evidence for geochemical terranes on Mercury: Global mapping of major elements with MESSENGER's X-Ray Spectrometer. <i>Earth and Planetary Science Letters</i> , 2015 , 416, 109-120 | 5.3 | 132 |
| 212 | Episodic warming of early Mars by punctuated volcanism. <i>Nature Geoscience</i> , 2014 , 7, 865-868 | 18.3 | 128 |
| 211 | Orientale multi-ringed basin interior and implications for the petrogenesis of lunar highland samples. <i>The Moon</i> , 1974 , 11, 327-356 | | 127 |
| 210 | Comparison of Warm and wethand fold and icylscenarios for early Mars in a 3-D climate model. Journal of Geophysical Research E: Planets, 2015 , 120, 1201-1219 | 4.1 | 126 |
| 209 | The Moon Mineralogy Mapper (M3) imaging spectrometer for lunar science: Instrument description, calibration, on-orbit measurements, science data calibration and on-orbit validation. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 125 |
| 208 | Fate of outflow channel effluents in the northern lowlands of Mars: The Vastitas Borealis Formation as a sublimation residue from frozen ponded bodies of water. <i>Journal of Geophysical Research</i> , 2002 , 107, 4-1-4-25 | | 125 |
| 207 | Global surface slopes and roughness of the Moon from the Lunar Orbiter Laser Altimeter. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 122 |
| 206 | Sequence and timing of conditions on early Mars. <i>Icarus</i> , 2011 , 211, 1204-1214 | 3.8 | 121 |
| 205 | Formation of gullies on Mars: link to recent climate history and insolation microenvironments implicate surface water flow origin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13258-63 | 11.5 | 120 |

| 204 | Lunar impact basins: New data for the western limb and far side (Orientale and South Pole-Aitken Basins) from the first Galileo flyby. <i>Journal of Geophysical Research</i> , 1993 , 98, 17149 | | 120 |
|-----|---|------|-----|
| 203 | The geologic history of Venus: A stratigraphic view. <i>Journal of Geophysical Research</i> , 1998 , 103, 8531- | 8544 | 111 |
| 202 | Mineralogy of the Nili Fossae region with OMEGA/Mars Express data: 1. Ancient impact melt in the Isidis Basin and implications for the transition from the Noachian to Hesperian. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 109 |
| 201 | Lunar impact basins revealed by Gravity Recovery and Interior Laboratory measurements. <i>Science Advances</i> , 2015 , 1, e1500852 | 14.3 | 108 |
| 200 | Venus volcanism: initial analysis from magellan data. <i>Science</i> , 1991 , 252, 276-88 | 33.3 | 103 |
| 199 | Constraints on the volatile distribution within Shackleton crater at the lunar south pole. <i>Nature</i> , 2012 , 486, 378-81 | 50.4 | 100 |
| 198 | Martian surface/near-surface water inventory: Sources, sinks, and changes with time. <i>Geophysical Research Letters</i> , 2015 , 42, 726-732 | 4.9 | 98 |
| 197 | Mars outflow channels: A reappraisal of the estimation of water flow velocities from water depths, regional slopes, and channel floor properties. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 97 |
| 196 | Generation, ascent and eruption of magma on the Moon: New insights into source depths, magma supply, intrusions and effusive/explosive eruptions (Part 2: Predicted emplacement processes and observations). <i>Icarus</i> , 2017 , 283, 176-223 | 3.8 | 93 |
| 195 | Geology and petrology of enormous volumes of impact melt on the Moon: A case study of the Orientale basin impact melt sea. <i>Icarus</i> , 2013 , 223, 749-765 | 3.8 | 93 |
| 194 | Ages and stratigraphy of lunar mare basalts in Mare Frigoris and other nearside maria based on crater size-frequency distribution measurements. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 93 |
| 193 | Lunar impact basins: Stratigraphy, sequence and ages from superposed impact crater populations measured from Lunar Orbiter Laser Altimeter (LOLA) data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 92 |
| 192 | Global geological map of Venus. <i>Planetary and Space Science</i> , 2011 , 59, 1559-1600 | 2 | 92 |
| 191 | Modification of the dichotomy boundary on Mars by Amazonian mid-latitude regional glaciation. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 92 |
| 190 | An overfilled lacustrine system and progradational delta in Jezero crater, Mars: Implications for Noachian climate. <i>Planetary and Space Science</i> , 2012 , 67, 28-45 | 2 | 91 |
| 189 | Lunar mare domes: Classification and modes of origin. <i>The Moon and the Planets</i> , 1980 , 22, 235-258 | | 90 |
| 188 | Mineralogy of the Mafic Anomaly in the South Pole-Aitken Basin: Implications for excavation of the lunar mantle. <i>Geophysical Research Letters</i> , 1997 , 24, 1903-1906 | 4.9 | 89 |
| 187 | Steep-sided domes on Venus: Characteristics, geologic setting, and eruption conditions from Magellan data. <i>Journal of Geophysical Research</i> , 1992 , 97, 13445 | | 85 |

| 186 | Generation, ascent and eruption of magma on the Moon: New insights into source depths, magma supply, intrusions and effusive/explosive eruptions (Part 1: Theory). <i>Icarus</i> , 2017 , 283, 146-175 | 3.8 | 84 |
|-----|---|--------|--------------------|
| 185 | Characteristics and origin of polygonal terrain in southern Utopia Planitia, Mars: Results from Mars Orbiter Laser Altimeter and Mars Orbiter Camera data. <i>Journal of Geophysical Research</i> , 2000 , 105, 1199 | 99-120 | 2 <mark>8</mark> 4 |
| 184 | Concentric crater fill in the northern mid-latitudes of Mars: Formation processes and relationships to similar landforms of glacial origin. <i>Icarus</i> , 2010 , 209, 390-404 | 3.8 | 82 |
| 183 | Lunar mare basalt flow units: Thicknesses determined from crater size-frequency distributions. <i>Geophysical Research Letters</i> , 2002 , 29, 89-1-89-4 | 4.9 | 82 |
| 182 | Active volcanism on Venus in the Ganiki Chasma rift zone. <i>Geophysical Research Letters</i> , 2015 , 42, 4762- | 4769 | 80 |
| 181 | Geological Characteristics of Von KĒmĒl Crater, Northwestern South Pole-Aitken Basin: Chang'E-4 Landing Site Region. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1684-1700 | 4.1 | 80 |
| 180 | Periods of active permafrost layer formation during the geological history of Mars: Implications for circum-polar and mid-latitude surface processes. <i>Planetary and Space Science</i> , 2008 , 56, 289-302 | 2 | 79 |
| 179 | Lunar floor-fractured craters: Classification, distribution, origin and implications for magmatism and shallow crustal structure. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 78 |
| 178 | Lunar graben formation due to near-surface deformation accompanying dike emplacement. <i>Planetary and Space Science</i> , 1993 , 41, 719-727 | 2 | 77 |
| 177 | The evolution of impact basins: Viscous relaxation of topographic relief. <i>Journal of Geophysical Research</i> , 1982 , 87, 3975 | | 77 |
| 176 | An analysis of open-basin lake deposits on Mars: Evidence for the nature of associated lacustrine deposits and post-lacustrine modification processes. <i>Icarus</i> , 2012 , 219, 211-229 | 3.8 | 76 |
| 175 | Supraglacial and proglacial valleys on Amazonian Mars. <i>Icarus</i> , 2010 , 208, 86-100 | 3.8 | 75 |
| 174 | Lunar regional dark mantle deposits: Geologic, multispectral, and modeling studies. <i>Journal of Geophysical Research</i> , 1998 , 103, 22725-22759 | | 75 |
| 173 | Stratigraphy of Oceanus Procellarum basalts: Sources and styles of emplacement. <i>Journal of Geophysical Research</i> , 1980 , 85, 6579-6609 | | 75 |
| 172 | Lunar sinuous rilles: Distribution, characteristics, and implications for their origin. <i>Planetary and Space Science</i> , 2013 , 79-80, 1-38 | 2 | 74 |
| 171 | Crustal diversity of the moon: Compositional analyses of Galileo solid state imaging data. <i>Journal of Geophysical Research</i> , 1993 , 98, 17127 | | 73 |
| 170 | Lunar mare deposits associated with the Orientale impact basin: New insights into mineralogy, history, mode of emplacement, and relation to Orientale Basin evolution from Moon Mineralogy Mapper (M3) data from Chandrayaan-1. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 72 |
| 169 | Impact melt differentiation in the South Pole-Aitken basin: Some observations and speculations. <i>Planetary and Space Science</i> , 2014 , 91, 101-106 | 2 | 71 |

| 168 | The climate history of early Mars: insights from the Antarctic McMurdo Dry Valleys hydrologic system. <i>Antarctic Science</i> , 2014 , 26, 774-800 | 1.7 | 71 |
|-----|---|------|----|
| 167 | Lunar topographic roughness maps from Lunar Orbiter Laser Altimeter (LOLA) data: Scale dependence and correlation with geologic features and units. <i>Icarus</i> , 2013 , 226, 52-66 | 3.8 | 71 |
| 166 | Summary of the results from the lunar orbiter laser altimeter after seven years in lunar orbit. <i>Icarus</i> , 2017 , 283, 70-91 | 3.8 | 70 |
| 165 | Glaciation in the Late Noachian Icy Highlands: Ice accumulation, distribution, flow rates, basal melting, and top-down melting rates and patterns. <i>Planetary and Space Science</i> , 2015 , 106, 82-98 | 2 | 7° |
| 164 | Lunar impact basins and crustal heterogeneity: new Western limb and far side data from galileo. <i>Science</i> , 1992 , 255, 570-6 | 33.3 | 70 |
| 163 | Criteria for the detection of lunar cryptomaria. <i>Earth, Moon and Planets</i> , 1995 , 69, 141-172 | 0.6 | 68 |
| 162 | Processes of lunar crater degradation: Changes in style with geologic time. <i>The Moon</i> , 1975 , 12, 299-32 | 9 | 67 |
| 161 | The global albedo of the Moon at 1064 nm from LOLA. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 1665-1679 | 4.1 | 65 |
| 160 | Imbrian-age highland volcanism on the moon: the gruithuisen and mairan domes. <i>Science</i> , 1978 , 199, 1433-6 | 33.3 | 65 |
| 159 | Classification and analysis of candidate impact crater-hosted closed-basin lakes on Mars. <i>Icarus</i> , 2015 , 260, 346-367 | 3.8 | 63 |
| 158 | Structure and evolution of the lunar Procellarum region as revealed by GRAIL gravity data. <i>Nature</i> , 2014 , 514, 68-71 | 50.4 | 62 |
| 157 | Lineated valley fill (LVF) and lobate debris aprons (LDA) in the Deuteronilus Mensae northern dichotomy boundary region, Mars: Constraints on the extent, age and episodicity of Amazonian glacial events. <i>Icarus</i> , 2009 , 202, 22-38 | 3.8 | 62 |
| 156 | Lava flooding of ancient planetary crusts: Geometry, thickness, and volumes of flooded lunar impact basins. <i>The Moon and the Planets</i> , 1982 , 26, 61-88 | | 62 |
| 155 | Compositional diversity and geologic insights of the Aristarchus crater from Moon Mineralogy Mapper data. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 60 |
| 154 | Thickness of proximal ejecta from the Orientale Basin from Lunar Orbiter Laser Altimeter (LOLA) data: Implications for multi-ring basin formation. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 58 |
| 153 | The transition from complex crater to peak-ring basin on the Moon: New observations from the Lunar Orbiter Laser Altimeter (LOLA) instrument. <i>Icarus</i> , 2011 , 214, 377-393 | 3.8 | 57 |
| 152 | The deep structure of lunar basins: Implications for basin formation and modification. <i>Journal of Geophysical Research</i> , 1985 , 90, 3049 | | 56 |
| 151 | The evolution of impact basins: Cooling, subsidence, and thermal stress. <i>Journal of Geophysical Research</i> , 1985 , 90, 12415 | | 56 |

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| 150 | Lunar cryptomaria: Physical characteristics, distribution, and implications for ancient volcanism. <i>Icarus</i> , 2015 , 247, 150-171 | 3.8 | 55 |
|-----|--|------|----|
| 149 | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , 2014 , 42, 1051-1054 | 5 | 55 |
| 148 | The mineralogy of late stage lunar volcanism as observed by the Moon Mineralogy Mapper on Chandrayaan-1. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 55 |
| 147 | Lunar Gruithuisen and Mairan domes: Rheology and mode of emplacement. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a | | 55 |
| 146 | Geology and Scientific Significance of the Rihker Region in Northern Oceanus Procellarum: China's Chang'E-5 Landing Region. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1407-1430 | 4.1 | 54 |
| 145 | The dispersal of pyroclasts from ancient explosive volcanoes on Mars: Implications for the friable layered deposits. <i>Icarus</i> , 2012 , 219, 358-381 | 3.8 | 53 |
| 144 | Lunar floor-fractured craters as magmatic intrusions: Geometry, modes of emplacement, associated tectonic and volcanic features, and implications for gravity anomalies. <i>Icarus</i> , 2015 , 248, 424 | -447 | 52 |
| 143 | New insights into lunar petrology: Distribution and composition of prominent low-Ca pyroxene exposures as observed by the Moon Mineralogy Mapper (M3). <i>Journal of Geophysical Research</i> , 2011 , 116, | | 52 |
| 142 | Amazonian-aged fluvial valley systems in a climatic microenvironment on Mars: Melting of ice deposits on the interior of Lyot Crater. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 52 |
| 141 | Volumes of lunar lava ponds in South Pole-Aitken and Orientale Basins: Implications for eruption conditions, transport mechanisms, and magma source regions. <i>Journal of Geophysical Research</i> , 1997 , 102, 10909-10931 | | 51 |
| 140 | Areally Extensive Surface Bedrock Exposures on Mars: Many Are Clastic Rocks, Not Lavas. <i>Geophysical Research Letters</i> , 2018 , 45, 1767-1777 | 4.9 | 50 |
| 139 | Insights into surface runoff on early Mars from paleolake basin morphology and stratigraphy. <i>Geology</i> , 2016 , 44, 419-422 | 5 | 50 |
| 138 | Spectral properties of the Marius Hills volcanic complex and implications for the formation of lunar domes and cones. <i>Journal of Geophysical Research</i> , 1999 , 104, 18933-18956 | | 49 |
| 137 | Formation of lobate debris aprons on Mars: Assessment of regional ice sheet collapse and debris-cover armoring. <i>Icarus</i> , 2014 , 228, 54-63 | 3.8 | 48 |
| 136 | The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. <i>Geophysical Research Letters</i> , 2015 , 42, 6939-6944 | 4.9 | 45 |
| 135 | Compositional variability of the Marius Hills volcanic complex from the Moon Mineralogy Mapper (M3). <i>Journal of Geophysical Research</i> , 2011 , 116, | | 45 |
| 134 | NorthBouth topographic slope asymmetry on Mars: Evidence for insolation-related erosion at high obliquity. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 45 |
| 133 | Layered mantling deposits in northeast Arabia Terra, Mars: Noachian-Hesperian sedimentation, erosion, and terrain inversion. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 43 |

| 132 | Pedestal crater heights on Mars: A proxy for the thicknesses of past, ice-rich, Amazonian deposits. <i>Icarus</i> , 2010 , 210, 92-101 | 3.8 | 42 |
|-----|--|------|----|
| 131 | Mare Tranquillitatis: Basalt emplacement history and relation to lunar samples. <i>Journal of Geophysical Research</i> , 1996 , 101, 23213-23228 | | 42 |
| 130 | Absence of large shield volcanoes and calderas on the Moon: Consequence of magma transport phenomena?. <i>Geophysical Research Letters</i> , 1991 , 18, 2121-2124 | 4.9 | 42 |
| 129 | Formation of the Orientale lunar multiring basin. <i>Science</i> , 2016 , 354, 441-444 | 33.3 | 41 |
| 128 | Buried stratigraphic relationships along the southwestern shores of Oceanus Procellarum: Implications for early lunar volcanism. <i>Journal of Geophysical Research</i> , 1996 , 101, 18913-18925 | | 41 |
| 127 | Galileo observations of post-imbrium lunar craters during the first Eearth-Moon flyby. <i>Journal of Geophysical Research</i> , 1993 , 98, 17207 | | 41 |
| 126 | Venus: The Atmosphere, Climate, Surface, Interior and Near-Space Environment of an Earth-Like Planet. <i>Space Science Reviews</i> , 2018 , 214, 1 | 7.5 | 40 |
| 125 | Sinton crater, Mars: Evidence for impact into a plateau icefield and melting to produce valley networks at the HesperianAmazonian boundary. <i>Icarus</i> , 2009 , 202, 39-59 | 3.8 | 40 |
| 124 | Amazonian mid- to high-latitude glaciation on Mars: Supply-limited ice sources, ice accumulation patterns, and concentric crater fill glacial flow and ice sequestration. <i>Planetary and Space Science</i> , 2014 , 91, 60-76 | 2 | 39 |
| 123 | Origin of lunar sinuous rilles: Modeling effects of gravity, surface slope, and lava composition on erosion rates during the formation of Rima Prinz. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 39 |
| 122 | Late Noachian Icy Highlands climate model: Exploring the possibility of transient melting and fluvial/lacustrine activity through peak annual and seasonal temperatures. <i>Icarus</i> , 2018 , 300, 261-286 | 3.8 | 38 |
| 121 | Patterns of accumulation and flow of ice in the mid-latitudes of Mars during the Amazonian. <i>Icarus</i> , 2012 , 219, 723-732 | 3.8 | 38 |
| 120 | Recent shallow moonquake and impact-triggered boulder falls on the Moon: New insights from the Schridinger basin. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 147-179 | 4.1 | 37 |
| 119 | Viscous flow lobes in central Taylor Valley, Antarctica: Origin as remnant buried glacial ice. <i>Geomorphology</i> , 2010 , 120, 174-185 | 4.3 | 37 |
| 118 | Sequence of tectonic deformation in the history of Venus: Evidence from global stratigraphic relationships. <i>Geology</i> , 1998 , 26, 35 | 5 | 37 |
| 117 | The transition from complex craters to multi-ring basins on the Moon: Quantitative geometric properties from Lunar Reconnaissance Orbiter Lunar Orbiter Laser Altimeter (LOLA) data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 36 |
| 116 | Global geological mapping of Ganymede. <i>Icarus</i> , 2010 , 207, 845-867 | 3.8 | 36 |
| 115 | Young lunar mare basalts in the Chang'e-5 sample return region, northern Oceanus Procellarum. Earth and Planetary Science Letters, 2021 , 555, 116702 | 5.3 | 36 |

| 114 | Venus as a Laboratory for Exoplanetary Science. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 2015-2028 | 4.1 | 35 | |
|-----|---|-----|----|--|
| 113 | Formation of double-layered ejecta craters on Mars: A glacial substrate model. <i>Geophysical Research Letters</i> , 2013 , 40, 3819-3824 | 4.9 | 35 | |
| 112 | An extended period of episodic northern mid-latitude glaciation on Mars during the Middle to Late Amazonian: Implications for long-term obliquity history. <i>Geology</i> , 2014 , 42, 763-766 | 5 | 35 | |
| 111 | Evidence for Amazonian northern mid-latitude regional glacial landsystems on Mars: Glacial flow models using GCM-driven climate results and comparisons to geological observations. <i>Icarus</i> , 2011 , 216, 23-39 | 3.8 | 34 | |
| 110 | Dark ring in southwestern Orientale Basin: Origin as a single pyroclastic eruption. <i>Journal of Geophysical Research</i> , 2002 , 107, 1-1 | | 34 | |
| 109 | Eruption of magmatic foams on the Moon: Formation in the waning stages of dike emplacement events as an explanation of Irregular mare patches <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 335, 113-127 | 2.8 | 33 | |
| 108 | Ina pit crater on the Moon: Extrusion of waning-stage lava lake magmatic foam results in extremely young crater retention ages. <i>Geology</i> , 2017 , 45, 455-458 | 5 | 32 | |
| 107 | Modification of impact craters in the northern plains of Mars: Implications for Amazonian climate history. <i>Meteoritics and Planetary Science</i> , 2006 , 41, 1633-1646 | 2.8 | 32 | |
| 106 | Geology of mare deposits in South Pole-Aitken basin as seen by Clementine UV/VIS data. <i>Journal of Geophysical Research</i> , 1999 , 104, 18957-18979 | | 32 | |
| 105 | Thicknesses of mare basalts on the Moon from gravity and topography. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 854-870 | 4.1 | 32 | |
| 104 | Lunar cryptomaria: Mineralogy and composition of ancient volcanic deposits. <i>Planetary and Space Science</i> , 2015 , 106, 67-81 | 2 | 31 | |
| 103 | 3D modelling of the climatic impact of outflow channel formation events on early Mars. <i>Icarus</i> , 2017 , 288, 10-36 | 3.8 | 30 | |
| 102 | Comparisons of fresh complex impact craters on Mercury and the Moon: Implications for controlling factors in impact excavation processes. <i>Icarus</i> , 2014 , 228, 260-275 | 3.8 | 30 | |
| 101 | Duration of tessera deformation on Venus. <i>Journal of Geophysical Research</i> , 1997 , 102, 13357-13368 | | 30 | |
| 100 | Stratigraphic sequence and ages of volcanic units in the Gruithuisen region of the Moon. <i>Journal of Geophysical Research</i> , 2002 , 107, 14-1-14-15 | | 30 | |
| 99 | Late Noachian and early Hesperian ridge systems in the south circumpolar Dorsa Argentea Formation, Mars: Evidence for two stages of melting of an extensive late Noachian ice sheet. <i>Planetary and Space Science</i> , 2015 , 109-110, 1-20 | 2 | 29 | |
| 98 | Modeling vapor diffusion within cold and dry supraglacial tills of Antarctica: Implications for the preservation of ancient ice. <i>Geomorphology</i> , 2011 , 126, 159-173 | 4.3 | 29 | |
| 97 | Cold-based debris-covered glaciers: Evaluating their potential as climate archives through studies of ground-penetrating radar and surface morphology. <i>Journal of Geophysical Research F: Earth Surface</i> 2014 119 2505-2540 | 3.8 | 28 | |

| 96 | Lava fountains from the 1999 Tvashtar Catena fissure eruption on Io: Implications for dike emplacement mechanisms, eruption rates, and crustal structure. <i>Journal of Geophysical Research</i> , 2001 , 106, 32997-33004 | | 28 |
|----|---|------------------|----|
| 95 | China's Chang'e-5 landing site: Geology, stratigraphy, and provenance of materials. <i>Earth and Planetary Science Letters</i> , 2021 , 561, 116855 | 5-3 | 28 |
| 94 | Thermal stress weathering and the spalling of Antarctic rocks. <i>Journal of Geophysical Research F:</i> Earth Surface, 2017 , 122, 3-24 | 3.8 | 27 |
| 93 | Deep generation of magmatic gas on the Moon and implications for pyroclastic eruptions. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 27 |
| 92 | Age and composition of young basalts on the Moon, measured from samples returned by Chang'e-5. <i>Science</i> , 2021 , 374, 887-890 | 33.3 | 27 |
| 91 | Comparison of areas in shadow from imaging and altimetry in the north polar region of Mercury and implications for polar ice deposits. <i>Icarus</i> , 2016 , 280, 158-171 | 3.8 | 27 |
| 90 | Controls on Lunar Basaltic Volcanic Eruption Structure and Morphology: Gas Release Patterns in Sequential Eruption Phases. <i>Geophysical Research Letters</i> , 2018 , 45, 5852 | 4.9 | 26 |
| 89 | New observational evidence of global seismic effects of basin-forming impacts on the Moon from Lunar Reconnaissance Orbiter Lunar Orbiter Laser Altimeter data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 26 |
| 88 | Morphology and structure of the taurus-littrow highlands (Apollo 17): evidence for their origin and evolution. <i>The Moon</i> , 1974 , 9, 355-395 | | 25 |
| 87 | Evidence for stabilization of the ice-cemented cryosphere in earlier martian history: Implications for the current abundance of groundwater at depth on Mars. <i>Icarus</i> , 2017 , 288, 120-147 | 3.8 | 23 |
| 86 | Serenitatis multi-ringed basin: Regional geology and basin ring interpretation. <i>The Moon and the Planets</i> , 1979 , 21, 439-462 | | 23 |
| 85 | Analyzing the ages of south polar craters on the Moon: Implications for the sources and evolution of surface water ice <i>Icarus</i> , 2020 , 336, 113455 | 3.8 | 22 |
| 84 | Model for the origin, ascent, and eruption of lunar picritic magmas. <i>American Mineralogist</i> , 2017 , 102, 2045-2053 | 2.9 | 21 |
| 83 | Late Noachian fluvial erosion on Mars: Cumulative water volumes required to carve the valley networks and grain size of bed-sediment. <i>Planetary and Space Science</i> , 2015 , 117, 429-435 | 2 | 21 |
| 82 | New evidence for surface water ice in small-scale cold traps and in three large craters at the north polar region of Mercury from the Mercury Laser Altimeter. <i>Geophysical Research Letters</i> , 2017 , 44, 9233-5 | 12 41 | 21 |
| 81 | Lunar red spots: Stratigraphic sequence and ages of domes and plains in the Hansteen and Helmet regions on the lunar nearside. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 21 |
| 80 | Shallow seismic surveys and ice thickness estimates of the Mullins Valley debris-covered glacier, McMurdo Dry Valleys, Antarctica. <i>Antarctic Science</i> , 2007 , 19, 485-496 | 1.7 | 21 |
| 79 | Impact crater air fall deposits on the surface of Venus: Areal distribution, estimated thickness, recognition in surface panoramas, and implications for provenance of sampled surface materials. | | 21 |

| 78 | A coupled model of episodic warming, oxidation and geochemical transitions on early Mars. <i>Nature Geoscience</i> , 2021 , 14, 127-132 | 18.3 | 20 |
|----|---|-------------------|----|
| 77 | The steepest slopes on the Moon from Lunar Orbiter Laser Altimeter (LOLA) Data: Spatial Distribution and Correlation with Geologic Features. <i>Icarus</i> , 2016 , 273, 329-336 | 3.8 | 19 |
| 76 | Detecting volcanic resurfacing of heavily cratered terrain: Flooding simulations on the Moon using Lunar Orbiter Laser Altimeter (LOLA) data. <i>Planetary and Space Science</i> , 2013 , 85, 24-37 | 2 | 19 |
| 75 | The regolith properties of the Chang'e-5 landing region and the ground drilling experiments using lunar regolith simulants. <i>Icarus</i> , 2020 , 337, 113508 | 3.8 | 19 |
| 74 | The role of substrate characteristics in producing anomalously young crater retention ages in volcanic deposits on the Moon: Morphology, topography, subresolution roughness, and mode of emplacement of the Sosigenes lunar irregular mare patch. <i>Meteoritics and Planetary Science</i> , 2018 , | 2.8 | 19 |
| 73 | 53, 778-812 Impact cratering as a cause of climate change, surface alteration, and resurfacing during the early history of Mars. <i>Meteoritics and Planetary Science</i> , 2018 , 53, 687-725 | 2.8 | 18 |
| 72 | Geology, tectonism and composition of the northwest Imbrium region. <i>Icarus</i> , 2018 , 303, 67-90 | 3.8 | 17 |
| 71 | The martian hydrosphere/cryosphere system: Implications of the absence of hydrologic activity at Lyot crater. <i>Geophysical Research Letters</i> , 2002 , 29, 8-1-8-4 | 4.9 | 17 |
| 70 | The environmental effects of very large bolide impacts on early Mars explored with a hierarchy of numerical models. <i>Icarus</i> , 2020 , 335, 113419 | 3.8 | 17 |
| 69 | Geologic History of the Northern Portion of the South Pole-Aitken Basin on the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2585-2612 | 4.1 | 17 |
| 68 | Crater degradation in the Noachian highlands of Mars: Assessing the hypothesis of regional snow and ice deposits on a cold and icy early Mars. <i>Planetary and Space Science</i> , 2015 , 117, 401-420 | 2 | 16 |
| 67 | Lunar floor-fractured craters: Modes of dike and sill emplacement and implications of gas production and intrusion cooling on surface morphology and structure. <i>Icarus</i> , 2018 , 305, 105-122 | 3.8 | 16 |
| 66 | Early Mars Climate History: Characterizing a Warm and WetlMartian Climate With a 3-D Global Climate Model and Testing Geological Predictions. <i>Geophysical Research Letters</i> , 2018 , 45, 10,249-10,25 | 58 ^{4.9} | 16 |
| 65 | Geological Characterization of the Ina Shield Volcano Summit Pit Crater on the Moon: Evidence for Extrusion of Waning-Stage Lava Lake Magmatic Foams and Anomalously Young Crater Retention Ages. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 1100-1140 | 4.1 | 15 |
| 64 | Did the Orientale impact melt sheet undergo large-scale igneous differentiation by crystal settling?. <i>Geophysical Research Letters</i> , 2016 , 43, 11,156 | 4.9 | 15 |
| 63 | Large mineralogically distinct impact melt feature at Copernicus crater Evidence for retention of compositional heterogeneity. <i>Geophysical Research Letters</i> , 2013 , 40, 1043-1048 | 4.9 | 15 |
| 62 | Venus, an Astrobiology Target. <i>Astrobiology</i> , 2021 , 21, 1163-1185 | 3.7 | 14 |
| 61 | Lunar Orientale Impact Basin Secondary Craters: Spatial Distribution, Size-Frequency Distribution, and Estimation of Fragment Size. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1344-1367 | 4.1 | 14 |

| 60 | Rainfall on Noachian Mars: Nature, timing, and influence on geologic processes and climate history. <i>Icarus</i> , 2020 , 347, 113782 | 3.8 | 13 |
|----|--|--------|-----------------|
| 59 | A review of geomorphic processes and landforms in the Dry Valleys of southern Victoria Land: implications for evaluating climate change and ice-sheet stability. <i>Geological Society Special Publication</i> , 2013 , 381, 319-352 | 1.7 | 13 |
| 58 | Rethinking Lunar Mare Basalt Regolith Formation: New Concepts of Lava Flow Protolith and Evolution of Regolith Thickness and Internal Structure. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL | .08833 | 4 ¹³ |
| 57 | Impact ejecta-induced melting of surface ice deposits on Mars. <i>Icarus</i> , 2016 , 280, 205-233 | 3.8 | 13 |
| 56 | Geological mapping of impact melt deposits at lunar complex craters Jackson and Tycho: Morphologic and topographic diversity and relation to the cratering process. <i>Icarus</i> , 2017 , 283, 268-281 | 3.8 | 12 |
| 55 | GRAIL gravity observations of the transition from complex crater to peak-ring basin on the Moon: Implications for crustal structure and impact basin formation. <i>Icarus</i> , 2017 , 292, 54-73 | 3.8 | 12 |
| 54 | Age constraints of Mercury's polar deposits suggest recent delivery of ice. <i>Earth and Planetary Science Letters</i> , 2019 , 520, 26-33 | 5.3 | 12 |
| 53 | Analyses of Lunar Orbiter Laser Altimeter 1,064-nm Albedo in Permanently Shadowed Regions of Polar Crater Flat Floors: Implications for Surface Water Ice Occurrence and Future In Situ Exploration. <i>Earth and Space Science</i> , 2019 , 6, 467-488 | 3.1 | 12 |
| 52 | Constraining the thickness of polar ice deposits on Mercury using the Mercury Laser Altimeter and small craters in permanently shadowed regions. <i>Icarus</i> , 2018 , 305, 139-148 | 3.8 | 12 |
| 51 | Reexamination of Early Lunar Chronology With GRAIL Data: Terranes, Basins, and Impact Fluxes. Journal of Geophysical Research E: Planets, 2018 , 123, 1596-1617 | 4.1 | 12 |
| 50 | The volume of water required to carve the martian valley networks: Improved constraints using updated methods. <i>Icarus</i> , 2019 , 317, 379-387 | 3.8 | 12 |
| 49 | Transient post-glacial processes on Mars: Geomorphologic evidence for a paraglacial period. <i>Icarus</i> , 2018 , 309, 187-206 | 3.8 | 11 |
| 48 | Potential Lunar Base on Mons Malapert: Topographic, Geologic and Trafficability Considerations. <i>Solar System Research</i> , 2019 , 53, 383-398 | 0.8 | 11 |
| 47 | Low-amplitude topographic features and textures on the Moon: Initial results from detrended Lunar Orbiter Laser Altimeter (LOLA) topography. <i>Icarus</i> , 2017 , 283, 138-145 | 3.8 | 11 |
| 46 | Volcanically Induced Transient Atmospheres on the Moon: Assessment of Duration, Significance, and Contributions to Polar Volatile Traps. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089509 | 4.9 | 11 |
| 45 | Salt or ice diapirism origin for the honeycomb terrain in Hellas basin, Mars?: Implications for the early martian climate. <i>Icarus</i> , 2017 , 284, 249-263 | 3.8 | 10 |
| 44 | Newly Discovered Ring-Moat Dome Structures in the Lunar Maria: Possible Origins and Implications. <i>Geophysical Research Letters</i> , 2017 , 44, 9216-9224 | 4.9 | 10 |
| 43 | The geologic evolution of Venus: Insights into Earth history. <i>Geology</i> , 2014 , 42, 95-96 | 5 | 10 |

(2021-2020)

| 42 | Erosion of lunar surface rocks by impact processes: A synthesis. <i>Planetary and Space Science</i> , 2020 , 194, 105105 | 2 | 10 |
|----|---|--|------|
| 41 | Mars Climate History: Insights From Impact Crater Wall Slope Statistics. <i>Geophysical Research Letters</i> , 2018 , 45, 1751-1758 | 4.9 | 9 |
| 40 | Evidence for the sedimentary origin of imbrium sculpture and lunar basin radial texture. <i>The Moon</i> , 1976 , 15, 445-462 | | 9 |
| 39 | Mare Crisium: Regional stratigraphy and geologic history. <i>Geophysical Research Letters</i> , 1978 , 5, 313-316 | 54.9 | 8 |
| 38 | Stratigraphy of Ice and Ejecta Deposits at the Lunar Poles. <i>Geophysical Research Letters</i> , 2020 , 47, e2020 |) 6 19 19 19 19 19 19 19 19 19 19 19 19 19 | 8%20 |
| 37 | A theoretical model for the formation of Ring Moat Dome Structures: Products of second boiling in lunar basaltic lava flows. <i>Journal of Volcanology and Geothermal Research</i> , 2019 , 374, 160-180 | 2.8 | 8 |
| 36 | Extensive Amazonian-aged fluvial channels on Mars: Evaluating the role of Lyot crater in their formation. <i>Geophysical Research Letters</i> , 2017 , 44, 5336-5344 | 4.9 | 7 |
| 35 | Ring-Moat Dome Structures (RMDSs) in the Lunar Maria: Statistical, Compositional, and Morphological Characterization and Assessment of Theories of Origin. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE005967 | 4.1 | 7 |
| 34 | The Apollo peak-ring impact basin: Insights into the structure and evolution of the South PoleAitken basin. <i>Icarus</i> , 2018 , 306, 139-149 | 3.8 | 7 |
| 33 | Lunar Irregular Mare Patches: Classification, Characteristics, Geologic Settings, Updated Catalog, Origin, and Outstanding Questions. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE0063 | 6 ⁴ 2 ^{.1} | 6 |
| 32 | The Cauchy 5 Small, Low-Volume Lunar Shield Volcano: Evidence for Volatile Exsolution-Eruption Patterns and Type 1/Type 2 Hybrid Irregular Mare Patch Formation. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006171 | 4.1 | 6 |
| 31 | Basin formation on Mercury: Caloris and the origin of its low-reflectance material. <i>Earth and Planetary Science Letters</i> , 2017 , 474, 427-435 | 5.3 | 6 |
| 30 | Acquisition and history of water on Mars 2010 , 31-67 | | 6 |
| 29 | A Noachian Proglacial Paleolake on Mars: Fluvial Activity and Lake Formation within a Closed-source Drainage Basin Crater and Implications for Early Mars Climate. <i>Planetary Science Journal</i> , 2021 , 2, 52 | 2.9 | 6 |
| 28 | Formation and dispersal of pyroclasts on the Moon: Indicators of lunar magma volatile contents. Journal of Volcanology and Geothermal Research, 2021, 413, 107217 | 2.8 | 6 |
| 27 | Regolith textures on Mercury: Comparison with the Moon. <i>Icarus</i> , 2020 , 351, 113945 | 3.8 | 5 |
| 26 | Searching for Lunar Horizon Glow With the Lunar Orbiter Laser Altimeter. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 2728-2744 | 4.1 | 5 |
| 25 | Geological Characteristics and Targets of High Scientific Interest in the Zhurong Landing Region on Mars. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094903 | 4.9 | 5 |

| 24 | Thermophysical Features of the Rinker Region in Northern Oceanus Procellarum: Insights from CE-2 CELMS Data. <i>Remote Sensing</i> , 2020 , 12, 3272 | 5 | 5 |
|----|--|-----|---|
| 23 | Testing landslide and atmospheric-effects models for the formation of double-layered ejecta craters on Mars. <i>Meteoritics and Planetary Science</i> , 2018 , 53, 741-777 | 2.8 | 5 |
| 22 | Oceans on Mars: The possibility of a Noachian groundwater-fed ocean in a sub-freezing martian climate. <i>Icarus</i> , 2019 , 331, 209-225 | 3.8 | 4 |
| 21 | Assessing the Roughness Properties of Circumpolar Lunar Craters: Implications for the Timing of Water-Ice Delivery to the Moon. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087782 | 4.9 | 4 |
| 20 | Copernican-Aged (. Geophysical Research Letters, 2021, 48, e2021GL095341 | 4.9 | 4 |
| 19 | Quantitative Characterization of Impact Crater Materials on the Moon: Changes in Topographic Roughness and Thermophysical Properties With Age. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006091 | 4.1 | 4 |
| 18 | The Long Sinuous Rille System in Northern Oceanus Procellarum and Its Relation to the Chang'e-5 Returned Samples. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092663 | 4.9 | 4 |
| 17 | In search of the RNA world on Mars. <i>Geobiology</i> , 2021 , 19, 307-321 | 4.3 | 4 |
| 16 | Magmatic intrusion-related processes in the upper lunar crust: The role of country rock porosity/permeability in magmatic percolation and thermal annealing, and implications for gravity signatures. <i>Planetary and Space Science</i> , 2020 , 180, 104765 | 2 | 3 |
| 15 | A Volcanic Ash Layer in the Nfidlinger Ries Impact Structure (Miocene, Germany): Indication of Crater Fill Geometry and Origins of Long-Term Crater Floor Sagging. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006764 | 4.1 | 3 |
| 14 | Groundwater Release on Early Mars: Utilizing Models and Proposed Evidence for Groundwater Release to Estimate the Required Climate and Subsurface Water Budget. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087230 | 4.9 | 2 |
| 13 | Degassing of volcanic extrusives on Mercury: Potential contributions to transient atmospheres and buried polar deposits. <i>Earth and Planetary Science Letters</i> , 2021 , 564, 116907 | 5.3 | 2 |
| 12 | The Lunar Mare Ring-Moat Dome Structure (RMDS) Age Conundrum: Contemporaneous With Imbrian-Aged Host Lava Flows or Emplaced in the Copernican?. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006880 | 4.1 | 2 |
| 11 | Temperature-Dependent Changes in the Normal Albedo of the Lunar Surface at 1,064 nm. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006338 | 4.1 | 1 |
| 10 | Glaciation on Mercury: Accumulation and flow of ice in permanently shadowed circum-polar crater interiors. <i>Icarus</i> , 2019 , 317, 81-93 | 3.8 | 1 |
| 9 | Time-Lapse Imaging in Polar Environments. <i>Eos</i> , 2014 , 95, 417-418 | 1.5 | 1 |
| 8 | Noachian Proglacial Paleolakes on Mars: Regionally Recurrent Fluvial Activity and Lake Formation within Closed-source Drainage Basin Craters. <i>Planetary Science Journal</i> , 2022 , 3, 38 | 2.9 | 1 |
| 7 | Experimental Investigations on the Effects of Dissolved Gases on the Freezing Dynamics of Ocean Worlds. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006528 | 4.1 | 1 |

LIST OF PUBLICATIONS

| 6 | Ina Lunar Irregular Mare Patch Mission Concepts: Distinguishing between Ancient and Modern Volcanism Models. <i>Planetary Science Journal</i> , 2021 , 2, 66 | 2.9 | 1 |
|---|---|-----|---|
| 5 | Patterns of late Amazonian deglaciation from the distribution of martian paraglacial features. <i>Icarus</i> , 2021 , 355, 114117 | 3.8 | 1 |
| 4 | Mare Domes in Mare Tranquillitatis: Identification, Characterization, and Implications for Their Origin. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006888 | 4.1 | 1 |
| | D 11 | | |
| 3 | Boulders on Mercury. <i>Icarus</i> , 2021 , 369, 114628 | 3.8 | 1 |
| 2 | Sulfides in Mercury's Mantle: Implications for Mercury's Interior as Interpreted From Moment of Inertia. <i>Geophysical Research Letters</i> , 2022 , 49, | 3.8 | 1 |