## Scott L Murchie

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18,347 128 78 235 h-index g-index citations papers 6.08 20,406 245 9.5 avg, IF L-index ext. citations ext. papers

| #   | Paper   | IF    | Citations |
|-----|---|-------|-----------|
| 235 | Science Goals and Mission Concept for a Landed Investigation of Mercury. <i>Planetary Science Journal</i> , <b>2022</b> , 3, 68   | 2.9   | O         |
| 234 | The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 76  | 2.9   | 1         |
| 233 | Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. <i>Icarus</i> , <b>2020</b> , 341, 113634-113634   | 3.8   | 12        |
| 232 | A search for early- to mid-Noachian chloride-rich deposits on Mars. <i>Icarus</i> , <b>2020</b> , 338, 113552   | 3.8   | 4         |
| 231 | Anomalous Phyllosilicate-Bearing Outcrops South of Coprates Chasma: A Study of Possible Emplacement Mechanisms. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2019JE006043  | 4.1   | 3         |
| 230 | Composition of Amazonian volcanic materials in Tharsis and Elysium, Mars, from MRO/CRISM reflectance spectra. <i>Icarus</i> , <b>2019</b> , 328, 274-286  | 3.8   | 17        |
| 229 | The distribution, composition, and particle properties of Mars mesospheric aerosols: An analysis of CRISM visible/near-IR limb spectra with context from near-coincident MCS and MARCI observations. <i>Icarus</i> , <b>2019</b> , 328, 246-273 | 3.8   | 23        |
| 228 | Measuring the Elemental Composition of Phobos: The Mars-moon Exploration with GAmma rays and NEutrons (MEGANE) Investigation for the Martian Moons eXploration (MMX) Mission. <i>Earth and Space Science</i> , <b>2019</b> , 6, 2605-2623       | 3.1   | 17        |
| 227 | Spectral Analyses of Mercury <b>2019</b> , 351-367  |       |           |
| 226 | Visible to Short-Wave Infrared Spectral Analyses of Mars from Orbit Using CRISM and OMEGA <b>2019</b> , 453   | 3-483 | 4         |
| 225 | Global Distribution and Spectral Properties of Low-Reflectance Material on Mercury. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 2945-2953   | 4.9   | 27        |
| 224 | Calibration, Projection, and Final Image Products of MESSENGER® Mercury Dual Imaging System. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1  | 7.5   | 38        |
| 223 | Challenges in the Search for Perchlorate and Other Hydrated Minerals With 2.1-th Absorptions on Mars. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12180-12189   | 4.9   | 29        |
| 222 | Spectral Reflectance Constraints on the Composition and Evolution of Mercury Surface <b>2018</b> , 191-216  |       | 6         |
| 221 | Mercuryඕ Hollows <b>2018</b> , 324-345  |       | 9         |
| 220 | The structural, stratigraphic, and paleoenvironmental record exposed on the rim and walls of Iazu Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2017</b> , 122, 1138-1156  | 4.1   | 5         |
| 219 | Vertical profiles of Mars 1.27 II m O 2 dayglow from MRO CRISM limb spectra: Seasonal/global behaviors, comparisons to LMDGCM simulations, and a global definition for Mars water vapor profiles. <i>Icarus</i> , <b>2017</b> , 293, 132-156    | 3.8   | 41        |

# (2015-2017)

| 218         | Extending MESSENGER's Mercury dual imager's eight-color photometric standardization to cover all eleven filters. <i>Icarus</i> , <b>2017</b> , 297, 83-89   | 3.8  | 3  |  |
|-------------|---|------|----|--|
| 217         | Compositional and structural constraints on the geologic history of eastern Tharsis Rise, Mars. <i>Icarus</i> , <b>2017</b> , 284, 43-58  | 3.8  | 25 |  |
| 216         | Analysis of MESSENGER high-resolution images of Mercury's hollows and implications for hollow formation. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 1798-1813           | 4.1  | 20 |  |
| 215         | Determining shape of a seasonally shadowed asteroid using stellar occultation imaging. <i>Planetary and Space Science</i> , <b>2016</b> , 131, 24-32  | 2    |    |  |
| 214         | Smectite deposits in Marathon Valley, Endeavour Crater, Mars, identified using CRISM hyperspectral reflectance data. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4885-4892              | 4.9  | 32 |  |
| 213         | Methodology for finding and evaluating safe landing sites on small bodies. <i>Planetary and Space Science</i> , <b>2016</b> , 134, 71-81  | 2    | 7  |  |
| 212         | Imaging Mercury's Polar Deposits during MESSENGER's Low-altitude Campaign. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9461-9468  | 4.9  | 22 |  |
| 211         | Mineralogical indicators of Mercury's hollows composition in MESSENGER color observations. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1450-1456  | 4.9  | 28 |  |
| <b>21</b> 0 | Orbital evidence for more widespread carbonate-bearing rocks on Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2016</b> , 121, 652-677  | 4.1  | 84 |  |
| 209         | Application of multiple photometric models to disk-resolved measurements of Mercury surface: Insights into Mercury regolith characteristics. <i>Icarus</i> , <b>2016</b> , 268, 172-203             | 3.8  | 32 |  |
| 208         | Remote sensing evidence for an ancient carbon-bearing crust on Mercury. <i>Nature Geoscience</i> , <b>2016</b> , 9, 273-276   | 18.3 | 90 |  |
| 207         | Characterization of artifacts introduced by the empirical volcano-scan atmospheric correction commonly applied to CRISM and OMEGA near-infrared spectra. <i>Icarus</i> , <b>2016</b> , 269, 111-121 | 3.8  | 15 |  |
| 206         | Discovery of alunite in cross crater, terra sirenum, mars: evidence for acidic, sulfurous waters. <i>American Mineralogist</i> , <b>2016</b> , 101, 1527-1542                                       | 2.9  | 39 |  |
| 205         | Evidence from MESSENGER for sulfur- and carbon-driven explosive volcanism on Mercury. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3653-3661   | 4.9  | 35 |  |
| 204         | Mars-Moons Exploration, Reconnaissance, and Landed Investigation (MERLIN) 2016,   |      | 1  |  |
| 203         | New insights into gully formation on Mars: Constraints from composition as seen by MRO/CRISM. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 8893-8902                                     | 4.9  | 16 |  |
| 202         | Constraints on the abundance of carbon in near-surface materials on Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Planetary and Space Science</i> , <b>2015</b> , 108, 98-107      | 2    | 48 |  |
| 201         | Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. <i>Icarus</i> , <b>2015</b> , 251, 315-331   | 3.8  | 18 |  |

| 200                      | Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. <i>Icarus</i> , <b>2015</b> , 254, 287-305   | 3.8                              | 77   |
|--------------------------|--|----------------------------------|--|
| 199                      | Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , <b>2015</b> , 8, 829-   | <b>832</b> .3                    | 415  |
| 198                      | Embedded clays and sulfates in Meridiani Planum, Mars. <i>Icarus</i> , <b>2015</b> , 248, 269-288  | 3.8                              | 32   |
| 197                      | Stratigraphy of the Caloris basin, Mercury: Implications for volcanic history and basin impact melt. <i>Icarus</i> , <b>2015</b> , 250, 413-429  | 3.8                              | 37   |
| 196                      | Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. <i>Journal of Geophysical Research E: Planets</i> , <b>2015</b> , 120, 429-451  | 4.1                              | 26   |
| 195                      | Mercury global color mosaic: An update from MESSENGER orbital observations. <i>Icarus</i> , <b>2015</b> , 257, 477-488   | 3.8                              | 23   |
| 194                      | Phobos and Deimos <b>2015</b> ,  |                                  | 9  |
| 193                      | The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , <b>2014</b> , 228, 364-374  | 3.8                              | 65   |
| 192                      | Spectral absorptions on Phobos and Deimos in the visible/near infrared wavelengths and their compositional constraints. <i>Icarus</i> , <b>2014</b> , 229, 196-205   | 3.8                              | 48   |
|                          |  |                                  |  |
| 191                      | Ancient aqueous environments at Endeavour crater, Mars. <i>Science</i> , <b>2014</b> , 343, 1248097  | 33.3                             | 132  |
| 191<br>190               | Ancient aqueous environments at Endeavour crater, Mars. <i>Science</i> , <b>2014</b> , 343, 1248097  Images of surface volatiles in Mercury® polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  | 33·3<br>5                        | 132<br>55  |
|                          | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft.   | 5                                |  |
| 190                      | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  | 5                                | 55   |
| 190<br>189               | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  Composition of Surface Materials on the Moons of Mars. <i>Planetary and Space Science</i> , <b>2014</b> , 102, 144-1.   | 5                                | 55<br>33   |
| 190<br>189<br>188        | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  Composition of Surface Materials on the Moons of Mars. <i>Planetary and Space Science</i> , <b>2014</b> , 102, 144-1.  MESSENGER at Mercury: Early orbital operations. <i>Acta Astronautica</i> , <b>2014</b> , 93, 509-515  Mineral abundances at the final four curiosity study sites and implications for their formation.   | 5<br>512<br>2.9                  | 55<br>33<br>2  |
| 190<br>189<br>188        | Images of surface volatiles in Mercury polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  Composition of Surface Materials on the Moons of Mars. <i>Planetary and Space Science</i> , <b>2014</b> , 102, 144-1.  MESSENGER at Mercury: Early orbital operations. <i>Acta Astronautica</i> , <b>2014</b> , 93, 509-515  Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , <b>2014</b> , 231, 65-76  SciBox, an end-to-end automated science planning and commanding system. <i>Acta Astronautica</i> ,  | 5<br>5<br>5<br>2.9<br>3.8        | 55<br>33<br>2<br>55  |
| 190<br>189<br>188<br>187 | Images of surface volatiles in Mercury® polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , <b>2014</b> , 42, 1051-1054  Composition of Surface Materials on the Moons of Mars. <i>Planetary and Space Science</i> , <b>2014</b> , 102, 144-1.  MESSENGER at Mercury: Early orbital operations. <i>Acta Astronautica</i> , <b>2014</b> , 93, 509-515  Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , <b>2014</b> , 231, 65-76  SciBox, an end-to-end automated science planning and commanding system. <i>Acta Astronautica</i> , <b>2014</b> , 93, 490-496  Mineralogy of the MSL Curiosity landing site in Gale crater as observed by MRO/CRISM. <i>Geophysical</i> | 5<br>5<br>5<br>2.9<br>3.8<br>2.9 | <ul><li>55</li><li>33</li><li>2</li><li>55</li><li>5</li></ul> |

| 182 | Recurring slope lineae in equatorial regions of Mars. <i>Nature Geoscience</i> , <b>2014</b> , 7, 53-58   | 18.3 | 212 |
|-----|---|------|-----|
| 181 | Phase-ratio images of the surface of Mercury: Evidence for differences in sub-resolution texture. <i>Icarus</i> , <b>2014</b> , 242, 142-148  | 3.8  | 21  |
| 180 | The value of Phobos sample return. <i>Planetary and Space Science</i> , <b>2014</b> , 102, 176-182  | 2    | 22  |
| 179 | MERLIN: Mars-Moon Exploration, Reconnaissance and Landed Investigation. <i>Acta Astronautica</i> , <b>2014</b> , 93, 475-482  | 2.9  | 5   |
| 178 | A hematite-bearing layer in Gale Crater, Mars: Mapping and implications for past aqueous conditions. <i>Geology</i> , <b>2013</b> , 41, 1103-1106   | 5    | 91  |
| 177 | Automated processing of planetary hyperspectral datasets for the extraction of weak mineral signatures and applications to CRISM observations of hydrated silicates on Mars. <i>Planetary and Space Science</i> , <b>2013</b> , 76, 53-67 | 2    | 35  |
| 176 | Prolonged magmatic activity on Mars inferred from the detection of felsic rocks. <i>Nature Geoscience</i> , <b>2013</b> , 6, 1013-1017  | 18.3 | 99  |
| 175 | Craters hosting radar-bright deposits in Mercury's north polar region: Areas of persistent shadow determined from MESSENGER images. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 26-36                          | 4.1  | 29  |
| 174 | What the ancient phyllosilicates at Mawrth Vallis can tell us about possible habitability on early Mars. <i>Planetary and Space Science</i> , <b>2013</b> , 86, 130-149   | 2    | 79  |
| 173 | First detection of Mars atmospheric hydroxyl: CRISM Near-IR measurement versus LMD GCM simulation of OH Meinel band emission in the Mars polar winter atmosphere. <i>Icarus</i> , <b>2013</b> , 226, 272-281                              | 3.8  | 41  |
| 172 | High spatial and temporal resolution sampling of Martian gas abundances from CRISM spectra.<br>Journal of Geophysical Research E: Planets, <b>2013</b> , 118, 89-104  | 4.1  | 28  |
| 171 | Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 487-513         | 4.1  | 47  |
| 170 | Dark spots on Mercury: A distinctive low-reflectance material and its relation to hollows. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 1752-1765   | 4.1  | 18  |
| 169 | Spectral constraints on the formation mechanism of recurring slope lineae. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5621-5626  | 4.9  | 29  |
| 168 | Hydrous minerals on Mars as seen by the CRISM and OMEGA imaging spectrometers: Updated global view. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 831-858  | 4.1  | 326 |
| 167 | Vertical distribution of dust and water ice aerosols from CRISM limb-geometry observations.<br>Journal of Geophysical Research E: Planets, <b>2013</b> , 118, 321-334   | 4.1  | 58  |
| 166 | The distribution and origin of smooth plains on Mercury. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 891-907   | 4.1  | 160 |
| 165 | Insights into the subsurface structure of the Caloris basin, Mercury, from assessments of mechanical layering and changes in long-wavelength topography. <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 2030-2044 | 4.1  | 22  |

| 164 | Areas of permanent shadow in Mercury's south polar region ascertained by MESSENGER orbital imaging. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a  | 4.9  | 34  |
|-----|--|------|-----|
| 163 | GETEMMEE mission to explore the Martian satellites and the fundamentals of solar system physics. <i>Experimental Astronomy</i> , <b>2012</b> , 34, 243-271   | 1.3  | 15  |
| 162 | Extensive MRO CRISM observations of 1.27 fb O2 airglow in Mars polar night and their comparison to MRO MCS temperature profiles and LMD GCM simulations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a |      | 40  |
| 161 | Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) north polar springtime recession mapping: First 3 Mars years of observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a               |      | 31  |
| 160 | Analysis of disk-resolved OMEGA and CRISM spectral observations of Phobos and Deimos. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a  |      | 37  |
| 159 | A spectroscopic analysis of Martian crater central peaks: Formation of the ancient crust. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a  |      | 29  |
| 158 | Most Mars minerals in a nutshell: Various alteration phases formed in a single environment in Noctis Labyrinthus. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a  |      | 54  |
| 157 | The morphology of craters on Mercury: Results from MESSENGER flybys. <i>Icarus</i> , <b>2012</b> , 219, 414-427  | 3.8  | 49  |
| 156 | Characterization of hydrated silicate-bearing outcrops in Tyrrhena Terra, Mars: Implications to the alteration history of Mars. <i>Icarus</i> , <b>2012</b> , 219, 476-497   | 3.8  | 39  |
| 155 | Hydrated minerals on Endeavour Crater's rim and interior, and surrounding plains: New insights from CRISM data. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a  | 4.9  | 22  |
| 154 | Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,  |      | 116 |
| 153 | New near-IR observations of mesospheric CO2 and H2O clouds on Mars. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,  |      | 54  |
| 152 | Subsurface water and clay mineral formation during the early history of Mars. <i>Nature</i> , <b>2011</b> , 479, 53-60   | 50.4 | 519 |
| 151 | Flood volcanism in the northern high latitudes of Mercury revealed by MESSENGER. <i>Science</i> , <b>2011</b> , 333, 1853-6  | 33.3 | 180 |
| 150 | Journey to the innermost planet. Scientific American, 2011, 304, 34-9  | 0.5  |     |
| 149 | Eminescu impact structure: Insight into the transition from complex crater to peak-ring basin on Mercury. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1949-1959   | 2    | 13  |
| 148 | Photometric correction of Mercury's global color mosaic. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1873-18  | 387  | 18  |
| 147 | The global distribution of pyroclastic deposits on Mercury: The view from MESSENGER flybys 1B. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1895-1909  | 2    | 86  |

| 146 | Mercury's spectrophotometric properties: Update from the Mercury Dual Imaging System observations during the third MESSENGER flyby. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1853-1872                             | 2      | 20  |
|-----|--|--------|-----|
| 145 | The transition from complex crater to peak-ring basin on Mercury: New observations from MESSENGER flyby data and constraints on basin formation models. <i>Planetary and Space Science</i> , <b>2011</b> , 59, 1932-1948         | 2      | 40  |
| 144 | Evidence for Low-Grade Metamorphism, Hydrothermal Alteration, and Diagenesis on Mars from Phyllosilicate Mineral Assemblages. <i>Clays and Clay Minerals</i> , <b>2011</b> , 59, 359-377   | 2.1    | 81  |
| 143 | Seasonal flows on warm Martian slopes. <i>Science</i> , <b>2011</b> , 333, 740-3   | 33.3   | 381 |
| 142 | Hollows on Mercury: MESSENGER evidence for geologically recent volatile-related activity. <i>Science</i> , <b>2011</b> , 333, 1856-9   | 33.3   | 97  |
| 141 | Stratigraphy, mineralogy, and origin of layered deposits inside Terby crater, Mars. <i>Icarus</i> , <b>2011</b> , 211, 273   | 3-3.04 | 116 |
| 140 | Robust unmixing of hyperspectral images: Application to Mars <b>2011</b> ,   |        | 4   |
| 139 | Silica deposits in the Nili Patera caldera on the Syrtis Major volcanic complex on Mars. <i>Nature Geoscience</i> , <b>2010</b> , 3, 838-841   | 18.3   | 149 |
| 138 | Detection of hydrated silicates in crustal outcrops in the northern plains of Mars. <i>Science</i> , <b>2010</b> , 328, 1682-6   | 33.3   | 113 |
| 137 | Near-tropical subsurface ice on Mars. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a  | 4.9    | 66  |
| 136 | Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) south polar mapping: First Mars year of observations. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,   |        | 43  |
| 135 | Spectrally distinct ejecta in Syrtis Major, Mars: Evidence for environmental change at the Hesperian-Amazonian boundary. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,   |        | 19  |
| 134 | Mineralogy and stratigraphy of phyllosilicate-bearing and dark mantling units in the greater Mawrth Vallis/west Arabia Terra area: Constraints on geological origin. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, |        | 83  |
| 133 | Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,   |        | 63  |
| 132 | Spectral and stratigraphic mapping of hydrated sulfate and phyllosilicate-bearing deposits in northern Sinus Meridiani, Mars. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,  |        | 59  |
| 131 | Investigation of an Argyre basin ring structure using Mars Reconnaissance Orbiter/Compact Reconnaissance Imaging Spectrometer for Mars. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,                              |        | 23  |
| 130 | Definitive evidence of Hesperian basalt in Acidalia and Chryse planitiae. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,  |        | 66  |
| 129 | Geologic setting of serpentine deposits on Mars. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a   | 4.9    | 244 |

| 128 | Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. <i>Icarus</i> , <b>2010</b> , 209, 101-124  | 3.8  | 28  |
|-----|--|------|-----|
| 127 | Geomorphic knobs of Candor Chasma, Mars: New Mars Reconnaissance Orbiter data and comparisons to terrestrial analogs. <i>Icarus</i> , <b>2010</b> , 205, 138-153   | 3.8  | 15  |
| 126 | Hydrated mineral stratigraphy of Ius Chasma, Valles Marineris. <i>Icarus</i> , <b>2010</b> , 206, 253-268  | 3.8  | 100 |
| 125 | A Late Amazonian alteration layer related to local volcanism on Mars. <i>Icarus</i> , <b>2010</b> , 207, 265-276   | 3.8  | 37  |
| 124 | Diagenetic haematite and sulfate assemblages in Valles Marineris. <i>Icarus</i> , <b>2010</b> , 207, 659-674   | 3.8  | 54  |
| 123 | Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. <i>Icarus</i> , <b>2010</b> , 209, 210-223  | 3.8  | 57  |
| 122 | Diverse aqueous environments on ancient Mars revealed in the southern highlands. <i>Geology</i> , <b>2009</b> , 37, 1043-1046  | 5    | 125 |
| 121 | Distribution of mid-latitude ground ice on Mars from new impact craters. <i>Science</i> , <b>2009</b> , 325, 1674-6  | 33.3 | 241 |
| 120 | An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , <b>2009</b> , 57, 809-815   | 2    | 147 |
| 119 | The tectonics of Mercury: The view after MESSENGER's first flyby. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 283-296  | 5.3  | 104 |
| 118 | Volcanism on Mercury: Evidence from the first MESSENGER flyby for extrusive and explosive activity and the volcanic origin of plains. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 227-242    | 5.3  | 92  |
| 117 | Evidence for intrusive activity on Mercury from the first MESSENGER flyby. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 251-262   | 5.3  | 43  |
| 116 | Emplacement and tectonic deformation of smooth plains in the Caloris basin, Mercury. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 309-319   | 5.3  | 42  |
| 115 | Explosive volcanic eruptions on Mercury: Eruption conditions, magma volatile content, and implications for interior volatile abundances. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 263-271 | 5.3  | 108 |
| 114 | Caloris impact basin: Exterior geomorphology, stratigraphy, morphometry, radial sculpture, and smooth plains deposits. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 285, 297-308                   | 5.3  | 75  |
| 113 | Phyllosilicates and sulfates at Endeavour Crater, Meridiani Planum, Mars. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,  | 4.9  | 72  |
| 112 | Identification of hydrated silicate minerals on Mars using MRO-CRISM: Geologic context near Nili Fossae and implications for aqueous alteration. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,     |      | 373 |
| 111 | A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars<br>Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,                                 |      | 354 |

#### (2008-2009)

| 110   | Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,   |                      | 131                           |
|---|---|----------------------|-------------------------------|
| 109   | Compact Reconnaissance Imaging Spectrometer for Mars investigation and data set from the Mars Reconnaissance Orbiter's primary science phase. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,   |                      | 143                           |
| 108   | Compact Reconnaissance Imaging Spectrometer for Mars observations of northern Martian latitudes in summer. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,  |                      | 19                            |
| 107   | Composition, Morphology, and Stratigraphy of Noachian Crust around the Isidis basin. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,  |                      | 120                           |
| 106   | Mineralogy of Juventae Chasma: Sulfates in the light-toned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,   |                      | 119                           |
| 105   | Testing evidence of recent hydration state change in sulfates on Mars. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,  |                      | 64                            |
| 104   | Characterization of phyllosilicates observed in the central Mawrth Vallis region, Mars, their potential formational processes, and implications for past climate. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,   |                      | 89                            |
| 103   | Wavelength dependence of dust aerosol single scattering albedo as observed by the Compact Reconnaissance Imaging Spectrometer. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,  |                      | 153                           |
| 102   | Compact Reconnaissance Imaging Spectrometer observations of water vapor and carbon monoxide. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,  |                      | 113                           |
|   |   |                      |                               |
| 101   | In-flight performance of MESSENGER's Mercury Dual Imaging System 2009,  |                      | 15                            |
| 101   | In-flight performance of MESSENGER's Mercury Dual Imaging System <b>2009</b> ,  Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  | 33.3                 | 15<br>38                      |
|   |   | 33.3                 | 38                            |
| 100   | Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  |                      | 38                            |
| 100   | Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  The evolution of Mercury's crust: a global perspective from MESSENGER. <i>Science</i> , <b>2009</b> , 324, 613-8  Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM  | 33.3                 | 38<br>155                     |
| <ul><li>100</li><li>99</li><li>98</li></ul>                       | Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  The evolution of Mercury's crust: a global perspective from MESSENGER. <i>Science</i> , <b>2009</b> , 324, 613-8  Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , <b>2008</b> , 454, 305-9  Clay minerals in delta deposits and organic preservation potential on Mars. <i>Nature Geoscience</i> , <b>2008</b>   | 33·3<br>50·4         | 38<br>155<br>547              |
| <ul><li>100</li><li>99</li><li>98</li><li>97</li></ul>            | Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  The evolution of Mercury's crust: a global perspective from MESSENGER. <i>Science</i> , <b>2009</b> , 324, 613-8  Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , <b>2008</b> , 454, 305-9  Clay minerals in delta deposits and organic preservation potential on Mars. <i>Nature Geoscience</i> , <b>2008</b> , 1, 355-358  | 33·3<br>50·4<br>18·3 | 38<br>155<br>547<br>227       |
| <ul><li>100</li><li>99</li><li>98</li><li>97</li><li>96</li></ul> | Evolution of the Rembrandt impact basin on Mercury. <i>Science</i> , <b>2009</b> , 324, 618-21  The evolution of Mercury's crust: a global perspective from MESSENGER. <i>Science</i> , <b>2009</b> , 324, 613-8  Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , <b>2008</b> , 454, 305-9  Clay minerals in delta deposits and organic preservation potential on Mars. <i>Nature Geoscience</i> , <b>2008</b> , 1, 355-358  . <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2008</b> , 46, 4020-4040 | 33·3<br>50·4<br>18·3 | 38<br>155<br>547<br>227<br>32 |

| 92 | Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, |      | 78  |
|----|---|------|-----|
| 91 | Geology of the Caloris basin, Mercury: a view from MESSENGER. <i>Science</i> , <b>2008</b> , 321, 73-6  | 33.3 | 114 |
| 90 | Reflectance and color variations on Mercury: regolith processes and compositional heterogeneity. <i>Science</i> , <b>2008</b> , 321, 66-9   | 33.3 | 143 |
| 89 | Opaline silica in young deposits on Mars. <i>Geology</i> , <b>2008</b> , 36, 847  | 5    | 259 |
| 88 | Orbital identification of carbonate-bearing rocks on Mars. <i>Science</i> , <b>2008</b> , 322, 1828-32  | 33.3 | 470 |
| 87 | Spectroscopic observations of Mercury's surface reflectance during MESSENGER's first Mercury flyby. <i>Science</i> , <b>2008</b> , 321, 62-5  | 33.3 | 85  |
| 86 | Volcanism on Mercury: evidence from the first MESSENGER flyby. <i>Science</i> , <b>2008</b> , 321, 69-72  | 33.3 | 152 |
| 85 | Return to Mercury: a global perspective on MESSENGER's first Mercury flyby. <i>Science</i> , <b>2008</b> , 321, 59-62   | 33.3 | 143 |
| 84 | Phyllosilicate diversity and past aqueous activity revealed at Mawrth Vallis, Mars. <i>Science</i> , <b>2008</b> , 321, 830-3   | 33.3 | 283 |
| 83 | New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , <b>2008</b> , 140, 93-127   | 7.5  | 71  |
| 82 | Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) on Mars Reconnaissance Orbiter (MRO). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,  |      | 640 |
| 81 | Mineralogic constraints on sulfur-rich soils from Pancam spectra at Gusev crater, Mars. <i>Geophysical Research Letters</i> , <b>2007</b> , 34, n/a-n/a   | 4.9  | 68  |
| 80 | The Geology of Mercury: The View Prior to the MESSENGER Mission. <i>Space Science Reviews</i> , <b>2007</b> , 131, 41-84  | 7.5  | 29  |
| 79 | The Mercury Dual Imaging System on the MESSENGER Spacecraft. <i>Space Science Reviews</i> , <b>2007</b> , 131, 247-338  | 7.5  | 199 |
| 78 | A closer look at water-related geologic activity on Mars. <i>Science</i> , <b>2007</b> , 317, 1706-9  | 33.3 | 165 |
| 77 | CRISM multispectral summary products: Parameterizing mineral diversity on Mars from reflectance. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,  |      | 266 |
| 76 | The Mercury Dual Imaging System on the MESSENGER Spacecraft <b>2007</b> , 247-338   |      | O   |
| 75 | The Geology of Mercury: The View Prior to the MESSENGER Mission <b>2007</b> , 41-84   |      |     |

## (2001-2004)

| 74 | CRISM (Compact Reconnaissance Imaging Spectrometer for Mars) on MRO (Mars Reconnaissance Orbiter) <b>2004</b> ,   |               | 10  |
|----|---|---------------|-----|
| 73 | The CONTOUR remote imager and spectrograph. <i>Acta Astronautica</i> , <b>2003</b> , 52, 427-431  | 2.9           |     |
| 72 | Spectral properties and geologic processes on Eros from combined NEAR NIS and MSI data sets. <i>Meteoritics and Planetary Science</i> , <b>2003</b> , 38, 1053-1077                             | 2.8           | 31  |
| 71 | Preliminary Remediation of Scattered Light in NEAR MSI Images. <i>Icarus</i> , <b>2002</b> , 155, 244-252   | 3.8           | 16  |
| 70 | Inflight Calibration of the NEAR Multispectral Imager. <i>Icarus</i> , <b>2002</b> , 155, 229-243   | 3.8           | 15  |
| 69 | Detection of Temperature-Dependent Spectral Variation on the Asteroid Eros and New Evidence for the Presence of an Olivine-Rich Silicate Assemblage. <i>Icarus</i> , <b>2002</b> , 155, 181-188 | 3.8           | 18  |
| 68 | An Estimate of Eros's Porosity and Implications for Internal Structure. <i>Icarus</i> , <b>2002</b> , 155, 94-103   | 3.8           | 52  |
| 67 | Near-IR Reflectance Spectroscopy of 433 Eros from the NIS Instrument on the NEAR Mission. <i>Icarus</i> , <b>2002</b> , 155, 119-144  | 3.8           | 59  |
| 66 | Eros: Shape, Topography, and Slope Processes. <i>Icarus</i> , <b>2002</b> , 155, 18-37  | 3.8           | 136 |
| 65 | Color Variations on Eros from NEAR Multispectral Imaging. <i>Icarus</i> , <b>2002</b> , 155, 145-168  | 3.8           | 69  |
| 64 | 433 Eros Global Basemap from NEAR Shoemaker MSI Images. <i>Icarus</i> , <b>2002</b> , 155, 38-50  | 3.8           | 12  |
| 63 | The NEAR shoemaker mission to asteroid 433 eros. <i>Acta Astronautica</i> , <b>2002</b> , 51, 491-500   | 2.9           | 26  |
| 62 | A model for formation of dust, soil, and rock coatings on Mars: Physical and chemical processes on the Martian surface. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, 7-1-7-17    |               | 53  |
| 61 | The geology of 433 Eros. <i>Meteoritics and Planetary Science</i> , <b>2002</b> , 37, 1651-1684   | 2.8           | 117 |
| 60 | The MESSENGER mission to Mercury: scientific objectives and implementation. <i>Planetary and Space Science</i> , <b>2001</b> , 49, 1445-1465  | 2             | 317 |
| 59 | The MESSENGER mission to Mercury: scientific payload. <i>Planetary and Space Science</i> , <b>2001</b> , 49, 1467-14  | 79            | 104 |
| 58 | The landing of the NEAR-Shoemaker spacecraft on asteroid 433 Eros. <i>Nature</i> , <b>2001</b> , 413, 390-3   | 50.4          | 141 |
| 57 | Shoemaker crater as the source of most ejecta blocks on the asteroid 433 Eros. <i>Nature</i> , <b>2001</b> , 413, 394-  | <b>6</b> 50.4 | 87  |

| 56 | The nature of ponded deposits on Eros. <i>Nature</i> , <b>2001</b> , 413, 396-400   | 50.4 | 135 |
|----|---|------|-----|
| 55 | Laser altimetry of small-scale features on 433 Eros from NEAR-Shoemaker. <i>Science</i> , <b>2001</b> , 292, 488-91   | 33.3 | 34  |
| 54 | Imaging of small-scale features on 433 Eros from NEAR: evidence for a complex regolith. <i>Science</i> , <b>2001</b> , 292, 484-8   | 33.3 | 122 |
| 53 | Space weathering on Eros: Constraints from albedo and spectral measurements of Psyche crater. <i>Meteoritics and Planetary Science</i> , <b>2001</b> , 36, 1617-1637  | 2.8  | 76  |
| 52 | Mineralogical interpretation of reflectance spectra of Eros from NEAR near-infrared spectrometer low phase flyby. <i>Meteoritics and Planetary Science</i> , <b>2001</b> , 36, 1711-1726                    | 2.8  | 40  |
| 51 | NEAR Lightcurves of Asteroid 433 Eros. <i>Icarus</i> , <b>2000</b> , 145, 641-644   | 3.8  | 2   |
| 50 | Near-Infrared Spectral Variations of Martian Surface Materials from ISM Imaging Spectrometer Data. <i>Icarus</i> , <b>2000</b> , 147, 444-471   | 3.8  | 78  |
| 49 | In-Flight Calibration of the Near Earth Asteroid Rendezvous Mission's Near Infrared Spectrometer I. Initial Calibrations. <i>Icarus</i> , <b>2000</b> , 148, 550-571  | 3.8  | 10  |
| 48 | NEAR at eros: imaging and spectral results. <i>Science</i> , <b>2000</b> , 289, 2088-97   | 33.3 | 191 |
| 47 | Mineralogic and compositional properties of Martian soil and dust: Results from Mars Pathfinder.<br>Journal of Geophysical Research, <b>2000</b> , 105, 1721-1755   |      | 225 |
| 46 | Inflight Calibration of the NEAR Multispectral Imager. <i>Icarus</i> , <b>1999</b> , 140, 66-91   | 3.8  | 30  |
| 45 | NEAR Encounter with Asteroid 253 Mathilde: Overview. <i>Icarus</i> , <b>1999</b> , 140, 3-16  | 3.8  | 99  |
| 44 | Mathilde: Size, Shape, and Geology. <i>Icarus</i> , <b>1999</b> , 140, 17-27  | 3.8  | 69  |
| 42 |   |      | 86  |
| 43 | NEAR Photometry of Asteroid 253 Mathilde. <i>Icarus</i> , <b>1999</b> , 140, 53-65  | 3.8  | 00  |
| 43 | NEAR Photometry of Asteroid 253 Mathilde. <i>Icarus</i> , <b>1999</b> , 140, 53-65  Imaging of asteroid 433 eros during NEAR's flyby reconnaissance. <i>Science</i> , <b>1999</b> , 285, 562-4              | 3.8  | 50  |
|    |   |      |     |
| 42 | Imaging of asteroid 433 eros during NEAR's flyby reconnaissance. <i>Science</i> , <b>1999</b> , 285, 562-4  Preliminary results on photometric properties of materials at the Sagan Memorial Station, Mars. |      | 50  |

| 38 | Overview of the Mars Pathfinder Mission: Launch through landing, surface operations, data sets, and science results. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 8523-8553     |      | 104 |
|----|--|------|-----|
| 37 | Observations of Phobos, Deimos, and bright stars with the Imager for Mars Pathfinder. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 9055-9068                                    |      | 26  |
| 36 | Rocks at the Mars Pathfinder Landing Site. <i>American Scientist</i> , <b>1999</b> , 87, 36  | 2.7  | 3   |
| 35 | An overview of the NEAR multispectral imager-near-infrared spectrometer investigation. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23709-23727                                 |      | 34  |
| 34 | In situ compositions of Martian volcanics: Implications for the mantle. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 25605-25615  |      | 88  |
| 33 | Results from the Mars Pathfinder camera. <i>Science</i> , <b>1997</b> , 278, 1758-65   | 33.3 | 216 |
| 32 | NEAR's flyby of 253 mathilde: images of a C asteroid. <i>Science</i> , <b>1997</b> , 278, 2109-14  | 33.3 | 160 |
| 31 | Near Infrared Spectrometer for the Near Earth Asteroid Rendezvous Mission. <i>Space Science Reviews</i> , <b>1997</b> , 82, 101-167  | 7.5  | 14  |
| 30 | Multi-Spectral Imager on the Near Earth Asteroid Rendezvous Mission. <i>Space Science Reviews</i> , <b>1997</b> , 82, 31-100   | 7.5  | 20  |
| 29 | Multi-Spectral Imager On the Near Earth Asteroid Rendezvous Mission <b>1997</b> , 31-100   |      | 2   |
| 28 | Near Infrared Spectrometer for the Near Earth Asteroid Rendezvous Mission 1997, 101-167  |      | 3   |
| 27 | Spectral properties and rotational spectral heterogeneity of 433 Eros. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 2201-2214   |      | 52  |
| 26 | Spectral Properties and Heterogeneity of Phobos from Measurements byPhobos 2. <i>Icarus</i> , <b>1996</b> , 123, 63-86   | 3.8  | 68  |
| 25 | Mass spectrometer instrumentation for landers on small bodies and planetary moons. <i>Acta Astronautica</i> , <b>1996</b> , 38, 377-384  | 2.9  | 5   |
| 24 | The Galileo Imaging Team plan for observing the satellites of Jupiter. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 18935   |      | 28  |
| 23 | Diagenetic layers in the upper walls of Valles Marineris, Mars: Evidence for drastic climate change since the mid-Hesperian. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 26339 |      | 16  |
| 22 | Galileo Photometry of Asteroid 951 Gaspra. <i>Icarus</i> , <b>1994</b> , 107, 37-60  | 3.8  | 101 |
|    |  |      |     |

| 20 | Martian Aerosols: Near-Infrared Spectral Properties and Effects on the Observation of the Surface. <i>Icarus</i> , <b>1994</b> , 111, 317-337   | 3.8   | 53  |
|----|---|-------|-----|
| 19 | Galileo imaging observations of lunar maria and related deposits. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17183  |       | 78  |
| 18 | Crustal diversity of the moon: Compositional analyses of Galileo solid state imaging data. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17127   |       | 73  |
| 17 | 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> , <b>1993</b> , 98, 17149 |       | 120 |
| 16 | Spatial Variations in the Spectral Properties of Bright Regions on Mars. <i>Icarus</i> , <b>1993</b> , 105, 454-468   | 3.8   | 83  |
| 15 | An Unusual Spectral Unit in West Candor Chasma: Evidence for Aqueous or Hydrothermal Alteration in the Martian Canyons. <i>Icarus</i> , <b>1993</b> , 106, 380-391                                      | 3.8   | 41  |
| 14 | Galileo encounter with 951 gaspra: first pictures of an asteroid. <i>Science</i> , <b>1992</b> , 257, 1647-52   | 33.3  | 150 |
| 13 | Preliminary assessment of Termoskan observations of Mars. <i>Planetary and Space Science</i> , <b>1991</b> , 39, 237  | '-265 | 11  |
| 12 | Results of TV imaging of Phobos (Experiment VSK-Fregat). Planetary and Space Science, 1991, 39, 281-9   | 952   | 29  |
| 11 | A possible interpretation of bright features on the surface of Phobos. <i>Planetary and Space Science</i> , <b>1991</b> , 39, 341-347   | 2     | 13  |
| 10 | Phobos: Spectrophotometry between 0.3 and 0.6 th and IR-radiometry. <i>Planetary and Space Science</i> , <b>1991</b> , 39, 311-326  | 2     | 18  |
| 9  | Color heterogeneity of the surface of Phobos: Relationships to geologic features and comparison to meteorite analogs. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 5925-5945              |       | 45  |
| 8  | Tectonic and volcanic evolution of dark terrain and its implications for the internal structure and evolution of Ganymede. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 10743             |       | 21  |
| 7  | The tectonics of icy satellites. Advances in Space Research, <b>1990</b> , 10, 173-182  | 2.4   | 2   |
| 6  | The geologic evolution of Ganymede and its implications for the origin of the Ganymede-Callisto Eichotomy[]Advances in Space Research, <b>1990</b> , 10, 183-186  | 2.4   |     |
| 5  | Crater densities and crater ages of different terrain types on Ganymede. <i>Icarus</i> , <b>1989</b> , 81, 271-297  | 3.8   | 16  |
| 4  | Television observations of Phobos. <i>Nature</i> , <b>1989</b> , 341, 585-587   | 50.4  | 31  |
| 3  | Possible breakup of dark terrain on Ganymede by large-scale shear faulting. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 8795   |       | 26  |

Terrain types and local-scale stratigraphy of grooved terrain on Ganymede. *Journal of Geophysical Research*, **1986**, 91, E222

23

Global reorientation and its effect on tectonic patterns on Ganymede. *Geophysical Research Letters*, **1986**, 13, 345-348

4.9 14