# Ralph L Mcnutt

List of Publications by Year
in descending order



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| 198 | 12,531 | 23567 | 27406 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 204 | 204 | 204 | 5351 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

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|---|---|---|---|
| 1 | Cassini Ion and Neutral Mass Spectrometer: Enceladus Plume Composition and Structure. Science, 2006, 311, 1419-1422. | 12.6 | 590 |
| 2 | Liquid water on Enceladus from observations of ammonia and 40Ar in the plume. Nature, 2009, 460, 487-490. | 27.8 | 470 |
| 3 | The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815. | 12.6 | 407 |
| 4 | Ion Neutral Mass Spectrometer Results from the First Flyby of Titan. Science, 2005, 308, 982-986. | 12.6 | 402 |
| 5 | The Major-Element Composition of Mercuryâ€™s Surface from MESSENGER X-ray Spectrometry. Science, 2011, 333, 1847-1850. | 12.6 | 386 |
| 6 | The MESSENGER mission to Mercury: scientific objectives and implementation. Planetary and Space Science, 2001, 49, 1445-1465. | 1.7 | 361 |
| 7 | MESSENGER Mission Overview. Space Science Reviews, 2007, 131, 3-39. | 8.1 | 345 |
| 8 | AlfvÃ©nic velocity spikes and rotational flows in the near-Sun solar wind. Nature, 2019, 576, 228-231. | 27.8 | 311 |
| 9 | The Global Magnetic Field of Mercury from MESSENGER Orbital Observations. Science, 2011, 333, 1859-1862. | 12.6 | 301 |
| 10 | MESSENGER Observations of Magnetic Reconnection in Mercuryâ€™s Magnetosphere. Science, 2009, 324, 606-610. | 12.6 | 234 |
| 11 | Radioactive Elements on Mercuryâ€™s Surface from MESSENGER: Implications for the Planetâ€™s Formation and Evolution. Science, 2011, 333, 1850-1852. | 12.6 | 233 |
| 12 | Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. Science, 2012, 336, 217-220. | 12.6 | 223 |
| 13 | Plasma Observations Near Jupiter: Initial Results from Voyager 1. Science, 1979, 204, 987-991. | 12.6 | 220 |
| 14 | The Structure of Mercury's Magnetic Field from MESSENGER's First Flyby. Science, 2008, 321, 82-85. | 12.6 | 194 |
| 15 | Composition of Titan's ionosphere. Geophysical Research Letters, 2006, 33, . | 4.0 | 191 |
| 16 | The Cassini Ion and Neutral Mass Spectrometer (INMS) Investigation. Space Science Reviews, 2004, 114, 113-231. | 8.1 | 188 |
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| 18 | MESSENGER Observations of Extreme Loading and Unloading of Mercuryâ€™s Magnetic Tail. Science, 2010, 329, 665-668. | 12.6 | 172 |

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| 20 | Return to Mercury: A Global Perspective on MESSENGER's First Mercury Flyby. Science, 2008, 321, 59-62. | 12.6 | 170 |
| 21 | Reflectance and Color Variations on Mercury: Regolith Processes and Compositional Heterogeneity. Science, 2008, 321, 66-69. | 12.6 | 167 |
| 22 | Mercury's Magnetosphere After MESSENGER's First Flyby. Science, 2008, 321, 85-89. | 12.6 | 166 |
| 23 | MESSENGER observations of magnetopause structure and dynamics at Mercury. Journal of Geophysical Research: Space Physics, 2013, 118, 997-1008. | 2.4 | 141 |
| 24 | Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. Space Science Reviews, 2016, 204, 187-256. | 8.1 | 139 |
| 25 | Lowâ€degree structure in Mercury's planetary magnetic field. Journal of Geophysical Research, 2012, 117, . | 3.3 | 131 |
| 26 | MESSENGER observations of Mercury's dayside magnetosphere under extreme solar wind conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 8087-8116. | 2.4 | 125 |
| 27 | The Elemental Composition of Asteroid 433 Eros: Results of the NEAR-Shoemaker X-ray Spectrometer. Science, 2000, 289, 2101-2105. | 12.6 | 123 |
| 28 | MESSENGER Observations of the Composition of Mercury's Ionized Exosphere and Plasma Environment. Science, 2008, 321, 90-92. | 12.6 | 121 |
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| 30 | The MESSENGER mission to Mercury: scientific payload. Planetary and Space Science, 2001, 49, 1467-1479. | 1.7 | 118 |
| 31 | Plasma Observations Near Uranus: Initial Results from Voyager 2. Science, 1986, 233, 89-93. | 12.6 | 114 |
| 32 | Initial results from the New Horizons exploration of 2014 MU <sub>69</sub> , a small Kuiper Belt object. Science, 2019, 364, . | 12.6 | 113 |
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| 40 | The Magnetic Field of Mercury. Space Science Reviews, 2010, 152, 307-339. | 8.1 | 94 |
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| 47 | Titan's ionosphere: Model comparisons with Cassini Ta data. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 81 |
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| 49 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 12.6 | 76 |
| 50 | Revised ion temperatures for Voyager plasma measurements in the Io plasma torus. Journal of Geophysical Research, 1985, 90, 1755-1757. | 3.3 | 75 |
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| 52 | MESSENGER observations of dipolarization events in Mercury's magnetotail. Journal of Geophysical Research, 2012, 117, . | 3.3 | 72 |
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| 61 | MESSENGER observations of large flux transfer events at Mercury. Geophysical Research Letters, 2010, 37, . | 4.0 | 57 |
| 62 | Simulation of the heliosphere: Model. Journal of Geophysical Research, 1998, 103, 1905-1912. | 3.3 | 55 |
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| 72 | Lowâ€energy plasma observations in the magnetosphere of Uranus. Journal of Geophysical Research, 1987, 92, 4399-4410. | 3.3 | 45 |

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