# G Randall Gladstone

List of Publications by Year
in descending order



| 216 | 8,830 | 36303 51 | 54911 84 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 233 | 233 | 233 | 3645 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

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|---|---|---|---|
| 1 | The Pluto system: Initial results from its exploration by New Horizons. Science, 2015, 350, aad1815. | 12.6 | 407 |
| 2 | Hydrocarbon Photochemistry in the Upper Atmosphere of Jupiter. Icarus, 1996, 119, 1-52. | 2.5 | 250 |
| 3 | The geology of Pluto and Charon through the eyes of New Horizons. Science, 2016, 351, 1284-1293. | 12.6 | 219 |
| 4 | Ultraviolet emissions from the magnetic footprints of Io, Ganymede and Europa on Jupiter. Nature, 2002, 415, 997-1000. | 27.8 | 203 |
| 5 | The atmosphere of Pluto as observed by New Horizons. Science, 2016, 351, aad8866. | 12.6 | 201 |
| 6 | A pulsating auroral X-ray hot spot on Jupiter. Nature, 2002, 415, 1000-1003. | 27.8 | 183 |
| 7 | Hubble Space Telescope imaging of Jupiter's UV aurora during the Galileo orbiter mission. Journal of Geophysical Research, 1998, 103, 20217-20236. | 3.3 | 170 |
| 8 | Photochemistry and diffusion in Jupiter's stratosphere: Constraints from ISO observations and comparisons with other giant planets. Journal of Geophysical Research, 2005, 110, n/a-n/a. | 3.3 | 167 |
| 9 | Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287. | 8.1 | 163 |
| 10 | Response of Jupiter's and Saturn's auroral activity to the solar wind. Journal of Geophysical Research, 2009, 114, . | 3.3 | 161 |
| 11 | Simultaneous Chandra X ray, Hubble Space Telescope ultraviolet, and Ulysses radio observations of Jupiter's aurora. Journal of Geophysical Research, 2005, 110, . | 3.3 | 149 |
| 12 | LRO-LAMP Observations of the LCROSS Impact Plume. Science, 2010, 330, 472-476. | 12.6 | 141 |
| 13 | Auroral emissions of the giant planets. Reviews of Geophysics, 2000, 38, 295-353. | 23.0 | 136 |
| 14 | An auroral flare at Jupiter. Nature, 2001, 410, 787-789. | 27.8 | 130 |
| 15 | Detection of Atomic Deuterium in the Upper Atmosphere of Mars. Science, 1998, 280, 1576-1580. | 12.6 | 124 |
| 16 | Farâ€ultraviolet reflectance properties of the Moon's permanently shadowed regions. Journal of Geophysical Research, 2012, 117, . | 3.3 | 115 |
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| 18 | ALICE: The Ultraviolet Imaging Spectrograph Aboard the New Horizons Plutoâ€“Kuiper Belt Mission. Space Science Reviews, 2008, 140, 155-187. | 8.1 | 111 |

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| 20 | The Ultraviolet Spectrograph on NASAâ€™s Juno Mission. Space Science Reviews, 2017, 213, 447-473. | 8.1 | 109 |
| 21 | A study of Jupiter's aurorae with XMM-Newton. Astronomy and Astrophysics, 2007, 463, 761-774. | 5.1 | 104 |
| 22 | H2 fluorescence spectrum from 1200 to 1700 A by electron impact - Laboratory study and application to Jovian aurora. Astrophysical Journal, 1982, 254, L65. | 4.5 | 95 |
| 23 | Auroral oxygen precipitation at Jupiter. Journal of Geophysical Research, 1995, 100, 17153. | 3.3 | 94 |
| 24 | Equatorial X-ray Emissions: Implications for Jupiter's High Exospheric Temperatures. Science, 1997, 276, 104-108. | 12.6 | 91 |
| 25 | Implications of Jovian X-ray emission for magnetosphere-ionosphere coupling. Journal of Geophysical Research, 2003, 108, . | 3.3 | 91 |
| 26 | Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. Geophysical Research Letters, 2017, 44, 4410-4418. | 4.0 | 90 |
| 27 | Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. Icarus, 2018, 300, 174-199. | 2.5 | 90 |
| 28 | ROSAT observations of the Jupiter aurora. Journal of Geophysical Research, 1994, 99, 14799. | 3.3 | 87 |
| 29 | LAMP: The Lyman Alpha Mapping Project on NASAâ€™s Lunar Reconnaissance Orbiter Mission. Space Science Reviews, 2010, 150, 161-181. | 8.1 | 83 |
| 30 | Discrete and broadband electron acceleration in Jupiterâ€™s powerful aurora. Nature, 2017, 549, 66-69. | 27.8 | 79 |
| 31 | The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. Science, 2020, 367, . | 12.6 | 79 |
| 32 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 12.6 | 76 |
| 33 | Spectral morphology of the Xâ€ray emission from Jupiter's aurorae. Journal of Geophysical Research, 2008, 113, . | 3.3 | 75 |
| 34 | The photochemistry of Pluto's atmosphere as illuminated by New Horizons. Icarus, 2017, 287, 110-115. | 2.5 | 75 |
| 35 | New Horizons: Anticipated Scientific Investigations atÂtheÂPluto System. Space Science Reviews, 2008, 140, 93-127. | 8.1 | 74 |
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| 40 | Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. Geophysical Research Letters, 2017, 44, 7643-7652. | 4.0 | 68 |
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| 42 | A possible auroral signature of a magnetotail reconnection process on Jupiter. Journal of Geophysical Research, 2004, 109, . | 3.3 | 64 |
| 43 | Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 12.6 | 64 |
| 44 | UV resonance line dayglow emissions on Earth and Jupiter. Journal of Geophysical Research, 1988, 93, 14623-14630. | 3.3 | 63 |
| 45 | First observation of Jupiter by XMM-Newton. Astronomy and Astrophysics, 2004, 424, 331-337. | 5.1 | 62 |
| 46 | Twoâ€dimensional distribution of volatiles in the lunar regolith from space weathering simulations. Geophysical Research Letters, 2012, 39, . | 4.0 | 61 |
| 47 | Plutoâ€™s interaction with its space environment: Solar wind, energetic particles, and dust. Science, 2016, 351, aad9045. | 12.6 | 60 |
| 48 | A Remarkable Auroral Event on Jupiter Observed in the Ultraviolet with the Hubble Space Telescope. Science, 1994, 266, 1675-1678. | 12.6 | 55 |
| 49 | New upper limits on numerous atmospheric species in the native lunar atmosphere. Icarus, 2013, 225, 681-687. | 2.5 | 55 |
| 50 | Jovian X-ray emission from solar X-ray scattering. Geophysical Research Letters, 2000, 27, 1339-1342. | 4.0 | 54 |
| 51 | Morphology of the UV aurorae Jupiter during Juno's first perijove observations. Geophysical Research Letters, 2017, 44, 4463-4471. | 4.0 | 54 |
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| 61 | Characteristics of Jovian morning bright FUV aurora from Hubble Space Telescope/Space Telescope Imaging Spectrograph imaging and spectral observations. Journal of Geophysical Research, 2006, 111, . | 3.3 | 48 |
| 62 | In Situ Observations Connected to the Io Footprint Tail Aurora. Journal of Geophysical Research E: Planets, 2018, 123, 3061-3077. | 3.6 | 48 |
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| 67 | Spectro-imaging observations of Jupiter's 2-Î¼m auroral emission. I.ÂH3+Âdistribution and temperature. Icarus, 2004, 171, 133-152. | 2.5 | 45 |
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| 71 | Io's Atmospheric Response to Eclipse: UV Aurorae Observations. Science, 2007, 318, 237-240. | 12.6 | 41 |
| 72 | Birkeland currents in Jupiterâ€™s magnetosphere observed by the polar-orbiting Juno spacecraft. Nature Astronomy, 2019, 3, 904-909. | 10.1 | 40 |

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| 106 | HSTSpectra of the Jovian Ultraviolet Aurora: Search for Heavy Ion Precipitation. Astrophysical Journal, 1998, 507, 955-967. | 4.5 | 24 |
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| 129 | The distribution of hot hydrogen atoms produced by electron and proton precipitation in the Jovian aurora. Journal of Geophysical Research, 1996, 101, 21157-21168. | 3.3 | 17 |
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