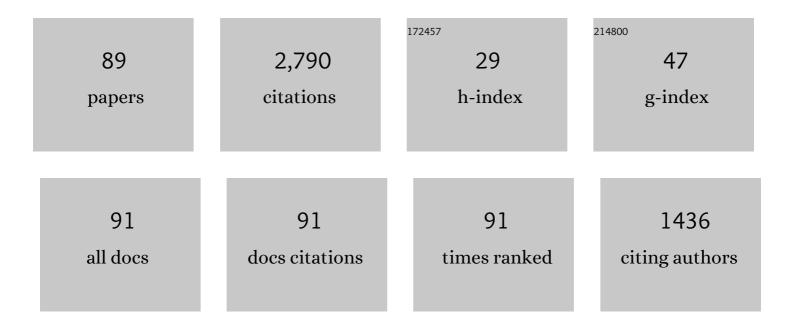
Ashley G Davies

List of Publications by Year in descending order

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ASHIEV C. DAVIES

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| 1 | High-Temperature Silicate Volcanism on Jupiter's Moon Io. , 1998, 281, 87-90. | | 198 |
| 2 | lo in the near infrared: Near-Infrared Mapping Spectrometer (NIMS) results from the Galileo flybys in 1999 and 2000. Journal of Geophysical Research, 2001, 106, 33053-33078. | 3.3 | 185 |
| 3 | Thermal signature, eruption style, and eruption evolution at Pele and Pillan on Io. Journal of Geophysical Research, 2001, 106, 33079-33103. | 3.3 | 121 |
| 4 | Io's Volcanism: Thermo-Physical Models of Silicate Lava Compared with Observations of Thermal Emission. Icarus, 1996, 124, 45-61. | 2.5 | 101 |
| 5 | The distribution of sulfur dioxide and other infrared absorbers on the surface of Io. Geophysical Research Letters, 1997, 24, 2479-2482. | 4.0 | 92 |
| 6 | Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. Planetary and Space Science, 2008, 56, 985-1013. | 1.7 | 92 |
| 7 | A Close-Up Look at Io from Galileo's Near-Infrared Mapping Spectrometer. Science, 2000, 288, 1201-1204. | 12.6 | 86 |
| 8 | New estimates for lo eruption temperatures: Implications for the interior. Icarus, 2007, 192, 491-502. | 2.5 | 81 |
| 9 | Io: Volcanic thermal sources and global heat flow. Icarus, 2012, 219, 701-722. | 2.5 | 77 |
| 10 | Loki, Io: A periodic volcano. Geophysical Research Letters, 2002, 29, 84-1-84-4. | 4.0 | 73 |
| 11 | Stealth plumes on Io. Geophysical Research Letters, 1995, 22, 3293-3296. | 4.0 | 67 |
| 12 | The summer 1997 eruption at Pillan Patera on Io: Implications for ultrabasic lava flow emplacement. Journal of Geophysical Research, 2001, 106, 33105-33119. | 3.3 | 60 |
| 13 | Observations and temperatures of Io's Pele Patera from Cassini and Galileo spacecraft images. Icarus, 2004, 169, 65-79. | 2.5 | 58 |
| 14 | Hot spots on Io: Initial results from Galileo's near infrared mapping spectrometer. Geophysical Research Letters, 1997, 24, 2439-2442. | 4.0 | 53 |
| 15 | Keck AO observations of Io in and out of eclipse. Icarus, 2004, 169, 250-263. | 2.5 | 53 |
| 16 | Two Small Transiting Planets and a Possible Third Body Orbiting HD 106315. Astronomical Journal, 2017, 153, 255. | 4.7 | 51 |
| 17 | Io: Loki Patera as a magma sea. Journal of Geophysical Research, 2006, 111, . | 3.3 | 48 |
| 18 | Evaluation of sulfur flow emplacement on Io from Galileo data and numerical modeling. Journal of Geophysical Research, 2001, 106, 33161-33174. | 3.3 | 47 |

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| 19 | Enceladus: A hypothesis for bringing both heat and chemicals to the surface. Icarus, 2012, 221, 53-62. | 2.5 | 46 |
| 20 | Multi-instrument remote and in situ observations of the Erebus Volcano (Antarctica) lava lake in 2005: A comparison with the Pele lava lake on the jovian moon Io. Journal of Volcanology and Geothermal Research, 2008, 177, 705-724. | 2.1 | 44 |
| 21 | Silicate Cooling Model Fits to Galileo NIMS Data of Volcanism on Io. Icarus, 2000, 148, 211-225. | 2.5 | 43 |
| 22 | The polar contribution to the heat flow of Io. Icarus, 2004, 169, 264-270. | 2.5 | 40 |
| 23 | Temperature, age and crust thickness distributions of Loki Patera on Io fromGalileoNIMS data: Implications for resurfacing mechanism. Geophysical Research Letters, 2003, 30, . | 4.0 | 39 |
| 24 | Volcanic activity at Tvashtar Catena, Io. Icarus, 2005, 179, 235-251. | 2.5 | 38 |
| 25 | The thermal signature of volcanic eruptions on Io and Earth. Journal of Volcanology and Geothermal Research, 2010, 194, 75-99. | 2.1 | 38 |
| 26 | Sensor web enables rapid response to volcanic activity. Eos, 2006, 87, 1. | 0.1 | 37 |
| 27 | Exploring the limits of identifying sub-pixel thermal features using ASTER TIR data. Journal of Volcanology and Geothermal Research, 2010, 189, 225-237. | 2.1 | 36 |
| 28 | Volcanism on Io: Estimation of eruption parameters from Galileo NIMS data. Journal of Geophysical Research, 2003, 108, . | 3.3 | 34 |
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| 34 | lo: Heat flow from dark paterae. Icarus, 2011, 212, 236-261. | 2.5 | 29 |
| 35 | Geology and topography of Ra Patera, Io, in the Voyager era: Prelude to eruption. Geophysical Research Letters, 1997, 24, 2467-2470. | 4.0 | 26 |
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| 37 | Io: Heat flow from dark volcanic fields. Icarus, 2009, 204, 239-253. | 2.5 | 25 |
| 38 | Map of Io's volcanic heat flow. Icarus, 2015, 262, 67-78. | 2.5 | 25 |
| 39 | Onboard Science Processing Concepts for the HyspIRI Mission. IEEE Intelligent Systems, 2009, 24, 12-19. | 4.0 | 24 |
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| 45 | Extreme volcanism on Io: Latest insights at the end of Galileo era. Eos, 2003, 84, 313. | 0.1 | 21 |
| 46 | lo: Charting thermal emission variability with the <i>Galileo</i> NIMS Io Thermal Emission Database (NITED): Loki Patera. Geophysical Research Letters, 2012, 39, . | 4.0 | 21 |
| 47 | Optimized Autonomous Space In-Situ Sensor Web for Volcano Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 541-546. | 4.9 | 20 |
| 48 | The variability of volcanic activity at Zamama, Culann, and Tupan Patera on Io as seen by the Galileo Near Infrared Mapping Spectrometer. Icarus, 2011, 215, 401-416. | 2.5 | 20 |
| 49 | Three decades of Loki Patera observations. Icarus, 2017, 297, 265-281. | 2.5 | 19 |
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| 51 | Magmatic gas percolation through the old lava dome of El Misti volcano. Bulletin of Volcanology, 2017, 79, 46. | 3.0 | 18 |
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| 53 | Upper bound on Io's heat flow. Journal of Geophysical Research, 2001, 106, 33021-33024. | 3.3 | 16 |
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| 56 | Volcanic history, geologic analysis and map of the Prometheus Patera region on Io. Journal of Volcanology and Geothermal Research, 2009, 187, 93-105. | 2.1 | 14 |
| 57 | Atmospheric control of the cooling rate of impact melts and cryolavas on Titan's surface. Icarus, 2010, 208, 887-895. | 2.5 | 14 |
| 58 | Nature, distribution and origin of CO2 on Enceladus. Icarus, 2019, 317, 491-508. | 2.5 | 14 |
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| 67 | Cryolava flow destabilization of crustal methane clathrate hydrate on Titan. Icarus, 2016, 274, 23-32. | 2.5 | 9 |
| 68 | Enceladus' near-surface CO2 gas pockets and surface frost deposits. Icarus, 2018, 302, 18-26. | 2.5 | 8 |
| 69 | Determination of eruption temperature of Io's lavas using lava tube skylights. Icarus, 2016, 278, 266-278. | 2.5 | 7 |
| 70 | Rapid Response to Volcanic Eruptions with an Autonomous Sensor Web: The Nyamulagira Eruption of 2006. , 2008, , . | | 6 |
| 71 | A novel technology for measuring the eruption temperature of silicate lavas with remote sensing: Application to Io and other planets. Journal of Volcanology and Geothermal Research, 2017, 343, 1-16. | 2.1 | 6 |
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| 73 | Resolving Io's Volcanoes from a Mutual Event Observation at the Large Binocular Telescope. Planetary Science Journal, 2021, 2, 227. | 3.6 | 5 |
| 74 | Cage occupancy of methane clathrate hydrates in the ternary H2O–NH3–CH4 system. Chemical Communications, 2020, 56, 12391-12394. | 4.1 | 4 |
| 75 | <title>Real-time decision making on EO-1 using onboard science analysis</title> . , 2005, 5657, 47. | | 1 |
| 76 | Onboard classification of hyperspectral data on the Earth Observing One mission. , 2009, , . | | 1 |
| 77 | Onboard processing of multispectral and hyperspectral data of volcanic activity for future Earth-orbiting and planetary missions. , 2010, , . | | 1 |
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| 81 | Cautionary Analysis of Spectral Radiance from Io's Active Volcanoes Derived from Galileo Near-Infrared Mapping Spectrometer Data. Astronomical Journal, 2022, 163, 2. | 4.7 | 1 |
| 82 | Reply to the â€~Comment on Cage occupancy of methane clathrate hydrates in the ternary H ₂ O–NH ₃ –CH ₄ system' by S. Alavi and J. Ripmeester, <i>Chem. Commun.</i> , 2022, 58 , DOI: 10.1039/D1CC06526B. Chemical Communications, 2022, 58, 4099-4102. | 4.1 | 1 |
| 83 | Linking satellites via Earth hot spots and the Internet to form ad hoc constellations. , 2005, 5659, 301. | | 0 |
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| 86 | Eruptive Center (Io). , 2014, , 1-8. | | 0 |
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