

Ashley G Davies

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Cautionary Analysis of Spectral Radiance from Io's Active Volcanoes Derived from Galileo Near-Infrared Mapping Spectrometer Data. <i>Astronomical Journal</i> , 2022, 163, 2.	4.7	1
2	Reply to the "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. <i>Chemical Communications</i> , 2022, 58, 4099-4102.	4.1	1
3	A 2020 Observational Perspective of Io. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 643-678.	11.0	15
4	Resolving Io's Volcanoes from a Mutual Event Observation at the Large Binocular Telescope. <i>Planetary Science Journal</i> , 2021, 2, 227.	3.6	5
5	Advanced Pointing Imaging Camera (APIC) for planetary science and mission opportunities. <i>Planetary and Space Science</i> , 2020, 194, 105095.	1.7	10
6	Cage occupancy of methane clathrate hydrates in the ternary H ₂ O-NH ₃ -CH ₄ system. <i>Chemical Communications</i> , 2020, 56, 12391-12394.	4.1	4
7	Phase Behavior of Clathrate Hydrates in the Ternary H ₂ O-NH ₃ -Cyclopentane System. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 526-534.	2.7	6
8	Automated Volcano Monitoring Using Multiple Space and Ground Sensors. <i>Journal of Aerospace Information Systems</i> , 2020, 17, 214-228.	1.4	14
9	Nature, distribution and origin of CO ₂ on Enceladus. <i>Icarus</i> , 2019, 317, 491-508.	2.5	14
10	Io's Volcanic Activity from Time Domain Adaptive Optics Observations: 2013-2018. <i>Astronomical Journal</i> , 2019, 158, 29.	4.7	32
11	Discovery of a Powerful, Transient, Explosive Thermal Event at Marduk Fluctus, Io, in <i>Galileo</i> NIMS Data. <i>Geophysical Research Letters</i> , 2018, 45, 2926-2933.	4.0	13
12	Enceladus' near-surface CO ₂ gas pockets and surface frost deposits. <i>Icarus</i> , 2018, 302, 18-26.	2.5	8
13	Variability and geologic associations of volcanic activity on Io in 2001-2016. <i>Icarus</i> , 2018, 312, 267-294.	2.5	19
14	Multi-phase volcanic resurfacing at Loki Patera on Io. <i>Nature</i> , 2017, 545, 199-202.	27.8	26
15	A novel technology for measuring the eruption temperature of silicate lavas with remote sensing: Application to Io and other planets. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 1-16.	2.1	6
16	Magmatic gas percolation through the old lava dome of El Misti volcano. <i>Bulletin of Volcanology</i> , 2017, 79, 46.	3.0	18
17	Two Small Transiting Planets and a Possible Third Body Orbiting HD 106315. <i>Astronomical Journal</i> , 2017, 153, 255.	4.7	51
18	Three decades of Loki Patera observations. <i>Icarus</i> , 2017, 297, 265-281.	2.5	19

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19	Determination of eruption temperature of Io's lavas using lava tube skylights. <i>Icarus</i> , 2016, 278, 266-278.	2.5	7
20	Cryolava flow destabilization of crustal methane clathrate hydrate on Titan. <i>Icarus</i> , 2016, 274, 23-32.	2.5	9
21	Keck observations of eruptions on Io in 2003-2005. <i>Icarus</i> , 2016, 274, 284-296.	2.5	12
22	Io: Eruptions at Pillan, and the time evolution of Pele and Pillan from 1996 to 2015. <i>Icarus</i> , 2016, 264, 198-212.	2.5	15
23	The NASA Volcano Sensor Web, advanced autonomy and the remote sensing of volcanic eruptions: a review. <i>Geological Society Special Publication</i> , 2016, 426, 137-158.	1.3	10
24	Map of Io's volcanic heat flow. <i>Icarus</i> , 2015, 262, 67-78.	2.5	25
25	Io: Heat flow from small volcanic features. <i>Icarus</i> , 2015, 245, 379-410.	2.5	30
26	Shield Volcano (Io). , 2015, , 1929-1933.		0
27	Eruptive Center (Io). , 2015, , 714-720.		0
28	Eruptive Center (Io). , 2014, , 1-8.		0
29	Near-infrared monitoring of Io and detection of a violent outburst on 29 August 2013. <i>Icarus</i> , 2014, 242, 352-364.	2.5	31
30	Two new, rare, high-effusion outburst eruptions at Rarog and Heno Paterae on Io. <i>Icarus</i> , 2014, 242, 365-378.	2.5	24
31	Global near-IR maps from Gemini-N and Keck in 2010, with a special focus on Janus Patera and Kanehekili Fluctus. <i>Icarus</i> , 2014, 242, 379-395.	2.5	23
32	Shield Volcano (Io). , 2014, , 1-6.		0
33	Near-vertical supersonic and shock-free gas/magma flow at ionian volcanoes: Application to Pillan. <i>Icarus</i> , 2013, 226, 1171-1176.	2.5	1
34	Onboard Product Generation on Earth Observing One: A Pathfinder for the Proposed Hypersi Mission Intelligent Payload Module. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 257-264.	4.9	12
35	Observing Iceland's Eyjafjallajökull 2010 eruptions with the autonomous NASA Volcano Sensor Web. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1936-1956.	3.4	12
36	Automatic estimation of volcanic ash plume height using WorldView-2 imagery. , 2012, , .		1

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37	Io: 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
38	Charting thermal emission variability at Pele, Janus Patera and Kanehekili Fluctus with the Galileo NIMS Io Thermal Emission Database (NITED). Icarus, 2012, 221, 466-470.	2.5	17
39	Enceladus: A hypothesis for bringing both heat and chemicals to the surface. Icarus, 2012, 221, 53-62.	2.5	46
40	Io: Volcanic thermal sources and global heat flow. Icarus, 2012, 219, 701-722.	2.5	77
41	Estimating eruption temperature from thermal emission spectra of lava fountain activity in the Erta'Ale (Ethiopia) volcano lava lake: Implications for observing Io's volcanoes. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	22
42	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
43	Io: Heat flow from dark paterae. Icarus, 2011, 212, 236-261.	2.5	29
44	The geothermal gradient of Io: Consequences for lithosphere structure and volcanic eruptive activity. Icarus, 2011, 211, 623-635.	2.5	23
45	Space-based Sensorweb monitoring of wildfires in Thailand. , 2011, , .		10
46	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
47	The thermal signature of volcanic eruptions on Io and Earth. Journal of Volcanology and Geothermal Research, 2010, 194, 75-99.	2.1	38
48	Atmospheric control of the cooling rate of impact melts and cryolavas on Titan's surface. Icarus, 2010, 208, 887-895.	2.5	14
49	Onboard processing of multispectral and hyperspectral data of volcanic activity for future Earth-orbiting and planetary missions. , 2010, , .		1
50	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
51	Onboard instrument processing concepts for the HyspIRI mission. , 2010, , .		1
52	Cooling rate of some active lavas determined using an orbital imaging spectrometer. Journal of Geophysical Research, 2010, 115, .	3.3	30
53	Autonomous Sensorweb Operations for Integrated Space In Situ Monitoring of Volcanic Activity. , 2010, , .		0
54	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

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55	Io: Heat flow from dark volcanic fields. <i>Icarus</i> , 2009, 204, 239-253.	2.5	25
56	Onboard classification of hyperspectral data on the Earth Observing One mission. , 2009, , .		1
57	Onboard Science Processing Concepts for the HypSIIRI Mission. <i>IEEE Intelligent Systems</i> , 2009, 24, 12-19.	4.0	24
58	Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. <i>Planetary and Space Science</i> , 2008, 56, 985-1013.	1.7	92
59	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. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 705-724.	2.1	44
60	Sensor Web operations: Rapid data acquisition and product generation during a volcanic crisis. , 2008, , .		0
61	Rapid Response to Volcanic Eruptions with an Autonomous Sensor Web: The Nyamulagira Eruption of 2006. , 2008, , .		6
62	New estimates for Io eruption temperatures: Implications for the interior. <i>Icarus</i> , 2007, 192, 491-502.	2.5	81
63	Sensor web enables rapid response to volcanic activity. <i>Eos</i> , 2006, 87, 1.	0.1	37
64	Io: Loki Patera as a magma sea. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	48
65	The heartbeat of the volcano: The discovery of episodic activity at Prometheus on Io. <i>Icarus</i> , 2006, 184, 460-477.	2.5	29
66	Linking satellites via Earth hot spots and the Internet to form ad hoc constellations. , 2005, 5659, 301.		0
67	<title>Real-time decision making on EO-1 using onboard science analysis</title>. , 2005, 5657, 47.		1
68	Post-solidification cooling and the age of Io's lava flows. <i>Icarus</i> , 2005, 176, 123-137.	2.5	22
69	Volcanic activity at Tvashtar Catena, Io. <i>Icarus</i> , 2005, 179, 235-251.	2.5	38
70	Keck AO observations of Io in and out of eclipse. <i>Icarus</i> , 2004, 169, 250-263.	2.5	53
71	Observations and temperatures of Io's Pele Patera from Cassini and Galileo spacecraft images. <i>Icarus</i> , 2004, 169, 65-79.	2.5	58
72	The polar contribution to the heat flow of Io. <i>Icarus</i> , 2004, 169, 264-270.	2.5	40

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73	Volcanism on Io: Estimation of eruption parameters from Galileo NIMS data. Journal of Geophysical Research, 2003, 108, .	3.3	34
74	Extreme volcanism on Io: Latest insights at the end of Galileo era. Eos, 2003, 84, 313.	0.1	21
75	Temperature, age and crust thickness distributions of Loki Patera on Io from Galileo NIMS data: Implications for resurfacing mechanism. Geophysical Research Letters, 2003, 30, .	4.0	39
76	Loki, Io: A periodic volcano. Geophysical Research Letters, 2002, 29, 84-1-84-4.	4.0	73
77	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
78	Evaluation of sulfur flow emplacement on Io from Galileo data and numerical modeling. Journal of Geophysical Research, 2001, 106, 33161-33174.	3.3	47
79	Thermal signature, eruption style, and eruption evolution at Pele and Pillan on Io. Journal of Geophysical Research, 2001, 106, 33079-33103.	3.3	121
80	Upper bound on Io's heat flow. Journal of Geophysical Research, 2001, 106, 33021-33024.	3.3	16
81	Io 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
82	Silicate Cooling Model Fits to Galileo NIMS Data of Volcanism on Io. Icarus, 2000, 148, 211-225.	2.5	43
83	A Close-Up Look at Io from Galileo's Near-Infrared Mapping Spectrometer. Science, 2000, 288, 1201-1204.	12.6	86
84	High-Temperature Silicate Volcanism on Jupiter's Moon Io. , 1998, 281, 87-90.		198
85	The distribution of sulfur dioxide and other infrared absorbers on the surface of Io. Geophysical Research Letters, 1997, 24, 2479-2482.	4.0	92
86	Hot spots on Io: Initial results from Galileo's near infrared mapping spectrometer. Geophysical Research Letters, 1997, 24, 2439-2442.	4.0	53
87	Geology and topography of Ra Patera, Io, in the Voyager era: Prelude to eruption. Geophysical Research Letters, 1997, 24, 2467-2470.	4.0	26
88	Io's Volcanism: Thermo-Physical Models of Silicate Lava Compared with Observations of Thermal Emission. Icarus, 1996, 124, 45-61.	2.5	101
89	Stealth plumes on Io. Geophysical Research Letters, 1995, 22, 3293-3296.	4.0	67