Andrew J L Harris

List of Publications by Year
in descending order

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45 papers	2,402 citations	218592 26 h-index	289141 40 g-index
45 all docs	45 docs citations	45 times ranked	1291 citing authors

#	Article	IF	Citations
1	Lava effusion rate definition and measurement: a review. Bulletin of Volcanology, 2007, 70, 1-22.	1.1	248
2	Strombolian explosive styles and source conditions: insights from thermal (FLIR) video. Bulletin of Volcanology, 2007, 69, 769-784.	1.1	223
3	A chronology of the 1991 to 1993 Mount Etna eruption using advanced very high resolution radiometer data: Implications for real-time thermal volcano monitoring. Journal of Geophysical Research, 1997, 102, 7985-8003.	3.3	174
4	Calculation of lava effusion rates from Landsat TM data. Bulletin of Volcanology, 1998, 60, 52-71.	1.1	168
5	Chronology and complex volcanic processes during the 2002-2003 flank eruption at Stromboli volcano (Italy) reconstructed from direct observations and surveys with a handheld thermal camera. Journal of Geophysical Research, 2005, 110, .	3.3	151
6	Mass flux measurements at active lava lakes: Implications for magma recycling. Journal of Geophysical Research, 1999, 104, 7117-7136.	3.3	141
7	Low-cost volcano surveillance from space: case studies from Etna, Krafla, Cerro Negro, Fogo, Lascar and Erebus. Bulletin of Volcanology, 1997, 59, 49-64.	1.1	116
8	Magma budgets and steady-state activity of Vulcano and Stromboli. Geophysical Research Letters, 1997, 24, 1043-1046.	1.5	106
9	The changing morphology of an open lava channel on Mt. Etna. Bulletin of Volcanology, 2006, 68, 497-515.	1.1	82
10	Lava discharge rates from satelliteâ€measured heat flux. Geophysical Research Letters, 2009, 36, .	1.5	76
11	Accurately measuring volcanic plume velocity with multiple UV spectrometers. Bulletin of Volcanology, 2006, 68, 328-332.	1.1	65
12	Volumetric characteristics of lava flows from interferometric radar and multispectral satellite data: the 1995 Fernandina and 1998 Cerro Azul eruptions in the western Galï¿½pagos. Bulletin of Volcanology, 2003, 65, 311-330.	1.1	62
13	Regional earthquake as a trigger for enhanced volcanic activity: Evidence from MODIS thermal data. Geophysical Research Letters, 2007, 34, .	1.5	58
14	Observations of the effect of wind on the cooling of active lava flows. Geophysical Research Letters, 2003, 30, .	1.5	50
15	Lengths and hazards from channel-fed lava flows on Mauna Loa, Hawaiâ€˜i, determined from thermal and downslope modeling with FLOWGO. Bulletin of Volcanology, 2005, 67, 634-647.	1.1	50
16	Using infrared satellite data to drive a thermoâ€rheological/stochastic lava flow emplacement model: A method for nearâ€realâ€time volcanic hazard assessment. Geophysical Research Letters, 2008, 35, .	1.5	50
17	First recorded eruption of Mount Belinda volcano (Montagu Island), South Sandwich Islands. Bulletin of Volcanology, 2005, 67, 415-422.	1.1	49
18	Real-time satellite monitoring of volcanic hot spots. Geophysical Monograph Series, 2000, , 139-159.	0.1	45

#	Article	IF	Citations
19	Terrestrial analogs to the calderas of the Tharsis volcanoes on Mars. , 0, , 71-94.		44
20	Chronology of the episode 54 eruption at Kilauea Volcano, Hawaii, from GOES-9 satellite data. Geophysical Research Letters, 1997, 24, 3281-3284.	1.5	43
21	Hazard assessment at Mount Etna using a hybrid lava flow inundation model and satellite-based land classification. Natural Hazards, 2011, 58, 1001-1027.	1.6	35
22	Bombs behaving badly: unexpected trajectories and cooling of volcanic projectiles. Bulletin of Volcanology, 2012, 74, 1849-1858.	1.1	35
23	Effects of Martian conditions on numerically modeled, cooling-limited, channelized lava flows. Journal of Geophysical Research, 2004, 109, .	3.3	31
24	Field measurements of heat loss from skylights and lava tube systems. Journal of Geophysical Research, 2007, 112, .	3.3	31
25	Coupled thermal oscillations in explosive activity at different craters of Stromboli volcano. Geophysical Research Letters, 2005, 32, .	1.5	30
26	Thermal observations of gas pistoning at Kilauea Volcano. Journal of Geophysical Research, 2005, 110, .	3.3	30
27	Thermal-image-derived dynamics of vertical ash plumes at Santiaguito volcano, Guatemala. Bulletin of Volcanology, 2009, 71, 827-830.	1.1	27
28	PÄhoehoe flow cooling, discharge, and coverage rates from thermal image chronometry. Geophysical Research Letters, 2007, 34, .	1.5	25
29	Real-Time Geophysical Monitoring of Particle Size Distribution During Volcanic Explosions at Stromboli Volcano (Italy). Frontiers in Earth Science, 2019, 7, .	0.8	22
30	High-spatial-resolution thermal remote sensing of active volcanic features using Landsat and hyperspectral data. Geophysical Monograph Series, 2000, , 161-177.	0.1	21
31	Lava flow hazard map of Piton de la Fournaise volcano. Natural Hazards and Earth System Sciences, 2021, 21, 2355-2377.	1.5	19
32	Features of lava lake filling and draining and their implications for eruption dynamics. Bulletin of Volcanology, 2009, 71, 767-780.	1.1	15
33	Simulating the thermorheological evolution of channel-contained lava: FLOWGO and its implementation in EXCEL. Geological Society Special Publication, 2016, 426, 313-336.	0.8	15
34	The 5 April 2003 Explosion of Stromboli: Timing of Eruption Dynamics Using Thermal Data. Geophysical Monograph Series, 0, , 305-316.	0.1	14
35	Multi-Parametric Field Experiment Links Explosive Activity and Persistent Degassing at Stromboli. Frontiers in Earth Science, 2021, 9, .	0.8	12
36	Volcanology 2030: will an orbital volcano observatory finally become a reality?. Bulletin of Volcanology, 2022, 84, 1.	1.1	9

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37	Translations of volcanological terms: cross-cultural standards for teaching, communication, and reporting. Bulletin of Volcanology, 2017, 79, 1.	1.1	7
38	Near-real-time service provision during effusive crises at Etna and Stromboli: basis and implementation of satellite-based IR operations. Geological Society Special Publication, 2016, 426, 463-488.	0.8	6
39	VIGIA: A Thermal and Visible Imagery System to Track Volcanic Explosions. Remote Sensing, 2022, 14, 3355.	1.8	5
40	Lava Volume from Remote Sensing Data: Comparisons with Reverse Petrological Approaches for Two Types of Effusive Eruption. Remote Sensing, 2022, 14, 323.	1.8	3
41	Evolution of the Lava Flow Field by Daily Thermal and Visible Airborne Surveys. Geophysical Monograph Series, 0, , 201-211.	0.1	2
42	The 1974 West Flank Eruption of Mount Etna: A Data-Driven Model for a Low Elevation Effusive Event. Frontiers in Earth Science, 2020, 8, .	0.8	2
43	Fragmentation Processes During Strombolian Explosions Revealed Using Particle Size Distribution Mapping. Frontiers in Earth Science, 2020, 8, .	0.8	2
44	Thermal anomalies at volcanoes. , 2015, , 49-78.		2
45	The effects of volcanic eruptions observed in satellite images: Examples from outside the North Pacific region. , 2015, , 323-354.		1