

Mike R James

List of Publications by Year in descending order

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107
papers

7,158
citations

71061

41
h-index

58549

82
g-index

116
all docs

116
docs citations

116
times ranked

6213
citing authors

#	ARTICLE	IF	CITATIONS
1	An Integrated Modeling Approach for Analyzing the Deformation Style of Active Volcanoes: Somma Vesuvius Case Study. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	3
2	Refining an ensemble of volcanic ash forecasts using satellite retrievals: Raikoke 2019. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6115-6134.	1.9	4
3	A novel experimental chamber for the characterization of free-falling particles in volcanic plumes. <i>Review of Scientific Instruments</i> , 2022, 93, .	0.6	2
4	Geodetic Applications to Geomorphology. , 2021, , .		1
5	Correcting for Systematic Underestimation of Topographic Glacier Aerodynamic Roughness Values From Hintereisferner, Austria. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
6	Pressure-Driven Opening and Filling of a Volcanic Hydrofracture Recorded by Tuffisite at HÅsafell, Iceland: A Potential Seismic Source. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	7
7	Reproducibility, open science and progression in soil erosion research. A reply to "Response to "National-scale geodata describe widespread accelerated soil erosion"™ Benaud et al. (2020) <i>Geoderma</i> 271, 114378" by Evans and Boardman (2021). <i>Geoderma</i> , 2021, 402, 115181.	2.3	1
8	Analogue experiments on the rise of large bubbles through a solids-rich suspension: A "weak plug" model for Strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115931.	1.8	34
9	Post-fragmentation vesiculation timescales in hydrous rhyolitic bombs from ChaitÅn volcano. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102807.	0.6	8
10	National-scale geodata describe widespread accelerated soil erosion. <i>Geoderma</i> , 2020, 371, 114378.	2.3	39
11	High-resolution monitoring of diffuse (sheet or interrill) erosion using structure-from-motion. <i>Geoderma</i> , 2020, 375, 114477.	2.3	30
12	Glacial Aerodynamic Roughness Estimates: Uncertainty, Sensitivity, and Precision in Field Measurements. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005167.	1.0	9
13	Current Practices in UAS-based Environmental Monitoring. <i>Remote Sensing</i> , 2020, 12, 1001.	1.8	135
14	Mitigating systematic error in topographic models for geomorphic change detection: accuracy, precision and considerations beyond off-nadir imagery. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2251-2271.	1.2	67
15	Volcanological applications of unoccupied aircraft systems (UAS): Developments, strategies, and future challenges. <i>Volcanica</i> , 2020, 3, 67-114.	0.6	63
16	Sediment source and volume of soil erosion in a gully system using UAV photogrammetry. <i>Revista Brasileira De Ciencia Do Solo</i> , 2020, 44, .	0.5	8
17	Characterizing beach intertidal bar systems using multi-annual LIDAR data. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1572-1583.	1.2	18
18	Insights Into PÅhoehoe Lava Emplacement Using Visible and Thermal Structure "From" Motion Photogrammetry. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5678-5695.	1.4	12

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19	Guidelines on the use of structure-from-motion photogrammetry in geomorphic research. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2081-2084.	1.2	178
20	Low-budget topographic surveying comes of age: Structure from motion photogrammetry in geography and the geosciences. <i>Progress in Physical Geography</i> , 2019, 43, 163-173.	1.4	49
21	Crowd-sourcing structure-from-motion data for terrain modelling in a real-world disaster scenario: A proof of concept. <i>Progress in Physical Geography</i> , 2019, 43, 236-259.	1.4	4
22	The origin and evolution of breakouts in a cooling-limited rhyolite lava flow. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 137-154.	1.6	11
23	Supraglacial lake drainage at a fast-flowing Greenlandic outlet glacier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25468-25477.	3.3	41
24	High precision tracing of soil and sediment movement using fluorescent tracers at hillslope scale. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1091-1099.	1.2	5
25	Implementing an efficient beach erosion monitoring system for coastal management in Croatia. <i>Ocean and Coastal Management</i> , 2018, 156, 223-238.	2.0	39
26	Using picosatellites for 4-D imaging of volcanic clouds: Proof of concept using ISS photography of the 2009 Sarychev Peak eruption. <i>Remote Sensing of Environment</i> , 2018, 210, 519-530.	4.6	10
27	Structure-from-Motion (SfM) monitoring of nourished gravel beaches in Croatia. , 2018, , .		2
28	The viscosity of pāhoehoe lava: In situ syn-eruptive measurements from Kilauea, Hawaii. <i>Earth and Planetary Science Letters</i> , 2018, 493, 161-171.	1.8	32
29	Using real time particle tracking to understand soil particle movements during rainfall events. <i>Catena</i> , 2017, 150, 32-38.	2.2	23
30	3D uncertainty-based topographic change detection with structure-from-motion photogrammetry: precision maps for ground control and directly georeferenced surveys. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1769-1788.	1.2	322
31	Cameras and settings for aerial surveys in the geosciences. <i>Progress in Physical Geography</i> , 2017, 41, 325-344.	1.4	78
32	The implications of gas slug ascent in a stratified magma for acoustic and ground deformation source mechanisms in Strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2017, 468, 101-111.	1.8	13
33	Optimising UAV topographic surveys processed with structure-from-motion: Ground control quality, quantity and bundle adjustment. <i>Geomorphology</i> , 2017, 280, 51-66.	1.1	440
34	Thermal photogrammetric imaging: A new technique for monitoring dome eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 337, 140-145.	0.8	39
35	Testing the utility of structure-from-motion photogrammetry reconstructions using small unmanned aerial vehicles and ground photography to estimate the extent of upland soil erosion. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1860-1871.	1.2	73
36	The dynamics of slug trains in volcanic conduits: Evidence for expansion driven slug coalescence. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 348, 26-35.	0.8	11

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37	Quantifying ice cliff evolution with multi-temporal point clouds on the debris-covered Khumbu Glacier, Nepal. <i>Journal of Glaciology</i> , 2017, 63, 823-837.	1.1	48
38	Emplacing a Cooling-Limited Rhyolite Lava Flow: Similarities with Basaltic Lava Flows. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	17
39	Pointcatcher software: analysis of glacial time-lapse photography and integration with multitemporal digital elevation models. <i>Journal of Glaciology</i> , 2016, 62, 159-169.	1.1	22
40	Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment. <i>Geophysical Research Letters</i> , 2016, 43, 5009-5016.	1.5	21
41	Volcano dome dynamics at Mount St. Helens: Deformation and intermittent subsidence monitored by seismicity and camera imagery pixel offsets. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7882-7902.	1.4	26
42	Gas slug ascent in a stratified magma: Implications of flow organisation and instability for Strombolian eruption dynamics. <i>Earth and Planetary Science Letters</i> , 2016, 435, 159-170.	1.8	32
43	Examining rhyolite lava flow dynamics through photo-based 3D reconstructions of the 2011–2012 lava flowfield at Cordón-Caulle, Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 304, 336-348.	0.8	50
44	Quantifying Effusion Rates at Active Volcanoes through Integrated Time-Lapse Laser Scanning and Photography. <i>Remote Sensing</i> , 2015, 7, 14967-14987.	1.8	29
45	SF3M software: 3-D photo-reconstruction for non-expert users and its application to a gully network. <i>Soil</i> , 2015, 1, 583-594.	2.2	38
46	Dynamics of mild strombolian activity on Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 300, 103-111.	0.8	26
47	Viscous plugging can enhance and modulate explosivity of strombolian eruptions. <i>Earth and Planetary Science Letters</i> , 2015, 423, 210-218.	1.8	47
48	Ultra-rapid topographic surveying for complex environments: the handheld mobile laser scanner (HMLS). <i>Earth Surface Processes and Landforms</i> , 2014, 39, 138-142.	1.2	55
49	Mitigating systematic error in topographic models derived from UAV and ground-based image networks. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1413-1420.	1.2	605
50	Evaluation of structure from motion for soil microtopography measurement. <i>Photogrammetric Record</i> , 2014, 29, 297-316.	0.4	30
51	The normalized topographic method: an automated procedure for gully mapping using GIS. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 2002-2015.	1.2	55
52	Ground-based and UAV-Based photogrammetry: A multi-scale, high-resolution mapping tool for structural geology and paleoseismology. <i>Journal of Structural Geology</i> , 2014, 69, 163-178.	1.0	529
53	Sequential digital elevation models of active lava flows from ground-based stereo time-lapse imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 97, 160-170.	4.9	63
54	The influence of cross-sectional channel geometry on rheology and flux estimates for active lava flows. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	23

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55	Chapter 13 AVTIS observations of lava dome growth at Soufrière Hills Volcano, Montserrat: 2004 to 2011. Geological Society Memoir, 2014, 39, 229-240.	0.9	6
56	Shallow vent architecture during hybrid explosive–effusive activity at Cordón Caulle (Chile, 2011–12): Evidence from direct observations and pyroclast textures. Journal of Volcanology and Geothermal Research, 2013, 262, 25-37.	0.8	133
57	Topographic and Thermal Mapping of Volcanic Terrain Using the AVTIS Ground-Based 94-GHz Dual-Mode Radar/Radiometric Imager. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 455-472.	2.7	15
58	Exceptional mobility of an advancing rhyolitic obsidian flow at Cordón Caulle volcano in Chile. Nature Communications, 2013, 4, 2709.	5.8	110
59	Volcano infrasonic signals and magma degassing: First-order experimental insights and application to Stromboli. Earth and Planetary Science Letters, 2013, 377-378, 169-179.	1.8	20
60	Degassing-driven crystallisation in basalts. Earth-Science Reviews, 2013, 116, 1-16.	4.0	45
61	Topographic and stochastic influences on pahoehoe lava lobe emplacement. Bulletin of Volcanology, 2013, 75, 1.	1.1	31
62	Direct observations of degassing-induced crystallization in basalts. Geology, 2013, 41, 243-246.	2.0	37
63	Separating the thermal fingerprints of lava flows and simultaneous lava fountaining using ground-based thermal camera and SEVIRI measurements. Geophysical Research Letters, 2013, 40, 5058-5063.	1.5	30
64	Passive and active imaging at 94 GHz for environmental remote sensing. Proceedings of SPIE, 2013, , .	0.8	4
65	Unsteady explosive activity. , 2013, , 107-128.		7
66	Comparing the Accuracy of Several Field Methods for Measuring Gully Erosion. Soil Science Society of America Journal, 2012, 76, 1319-1332.	1.2	170
67	Identification of structural controls in an active lava dome with high resolution DEMs: Volcán de Colima, Mexico. Geophysical Research Letters, 2012, 39, .	1.5	106
68	Straightforward reconstruction of 3D surfaces and topography with a camera: Accuracy and geoscience application. Journal of Geophysical Research, 2012, 117, .	3.3	696
69	Relationships between volcano gravitational spreading and magma intrusion. Bulletin of Volcanology, 2012, 74, 743-765.	1.1	42
70	UAV-based remote sensing of the Super-Sauze landslide: Evaluation and results. Engineering Geology, 2012, 128, 2-11.	2.9	509
71	Lava channel roofing, overflows, breaches and switching: insights from the 2008–2009 eruption of Mt. Etna. Bulletin of Volcanology, 2012, 74, 107-117.	1.1	34
72	Large-scale experiments on dune erosion processes. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 20-30.	0.7	22

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73	Comment on "œlt takes three to tango: 2. Bubble dynamics in basaltic volcanoes and ramifications for modeling normal Strombolian activity" by J. Suckale, B. H. Hager, L. T. Elkins-Tanton, and J.-C. Nave. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
74	Electrostatic phenomena in volcanic eruptions. <i>Journal of Physics: Conference Series</i> , 2011, 301, 012004.	0.3	8
75	A comparison of field- and satellite-derived thermal flux at Piton de la Fournaise: implications for the calculation of lava discharge rate. <i>Bulletin of Volcanology</i> , 2010, 72, 341-356.	1.1	25
76	Morphological complexities and hazards during the emplacement of channel-fed 'a'Ä•lava flow fields: A study of the 2001 lower flow field on Etna. <i>Bulletin of Volcanology</i> , 2010, 72, 641-656.	1.1	28
77	Imaging short period variations in lava flux. <i>Bulletin of Volcanology</i> , 2010, 72, 671-676.	1.1	16
78	Lava flow superposition: The reactivation of flow units in compound 'a'Ä•flows. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 100-106.	0.8	15
79	Validation of the AVTIS volcano imager radiometry — A comparison of infrared and millimetre wave thermal imagery. , 2010, , .		1
80	Growth of the lava dome and extrusion rates at Soufriere Hills Volcano, Montserrat, West Indies: 2005â€“2008. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	52
81	Seismic source mechanism of degassing bursts at Kilauea Volcano, Hawaii: Results from waveform inversion in the 10â€“50 s band. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	94
82	Influence of surface clinker on the crustal structures and dynamics of 'a'Ä•lava flows. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
83	The assimilation of historic photography and cartography into longterm coastal geomorphological analysis. <i>Procedia Environmental Sciences</i> , 2010, 2, 527-534.	1.3	3
84	Degassing at low magma-viscosity volcanoes: Quantifying the transition between passive bubble-burst and Strombolian eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 180, 81-88.	0.8	67
85	A statistical analysis of eruptive activity on Mount Etna, Sicily. <i>Geophysical Journal International</i> , 2009, 179, 655-666.	1.0	21
86	Detecting the development of active lava flow fields with a veryâ€“longâ€“range terrestrial laser scanner and thermal imagery. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	45
87	Electrical Charging of Volcanic Plumes. <i>Space Science Reviews</i> , 2008, 137, 399-418.	3.7	76
88	The influence of edifice slope and substrata on volcano spreading. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 925-943.	0.8	58
89	Lava dome growth and mass wasting measured by a time series of groundâ€“based radar and seismicity observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
90	Electrical Charging of Volcanic Plumes. <i>Space Sciences Series of ISSI</i> , 2008, , 399-418.	0.0	7

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91	Modelling the rapid near-surface expansion of gas slugs in low-viscosity magmas. Geological Society Special Publication, 2008, 307, 147-167.	0.8	51
92	Image-based measurement of flux variation in distal regions of active lava flows. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	60
93	P��hoehoe flow cooling, discharge, and coverage rates from thermal image chronometry. Geophysical Research Letters, 2007, 34, .	1.5	25
94	Use of a portable topographic mapping millimetre wave radar at an active lava flow. Geophysical Research Letters, 2006, 33, .	1.5	21
95	Gas slug ascent through changes in conduit diameter: Laboratory insights into a volcano-seismic source process in low-viscosity magmas. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	113
96	Oblique photogrammetry with visible and thermal images of active lava flows. Bulletin of Volcanology, 2006, 69, 105-108.	1.1	52
97	AVTIS: A novel millimetre-wave ground based instrument for volcano remote sensing. Journal of Volcanology and Geothermal Research, 2005, 146, 307-318.	0.8	37
98	Pressure changes associated with the ascent and bursting of gas slugs in liquid-filled vertical and inclined conduits. Journal of Volcanology and Geothermal Research, 2004, 129, 61-82.	0.8	128
99	Viscoelastic behaviour of basaltic lavas. Journal of Volcanology and Geothermal Research, 2004, 132, 99-113.	0.8	32
100	Density, construction, and drag coefficient of electrostatic volcanic ash aggregates. Journal of Geophysical Research, 2003, 108, .	3.3	61
101	Internal friction spectroscopy in Li ₂ O-2SiO ₂ partially crystallised glasses. Journal of Non-Crystalline Solids, 2003, 319, 44-56.	1.5	9
102	Experimental investigation of volcanic particle aggregation in the absence of a liquid phase. Journal of Geophysical Research, 2002, 107, ECV 4-1-ECV 4-13.	3.3	64
103	Surface temperature measurements of active lava flows on Kilauea volcano, Hawaii. Journal of Volcanology and Geothermal Research, 2002, 113, 159-176.	0.8	78
104	Volcanic plume electrification: Experimental investigation of a fracture-charging mechanism. Journal of Geophysical Research, 2000, 105, 16641-16649.	3.3	83
105	Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West Indies: November 1995 to December 1997. Geophysical Research Letters, 1998, 25, 3421-3424.	1.5	157
106	Volcanic plume monitoring using atmospheric electric potential gradients. Journal of the Geological Society, 1998, 155, 587-590.	0.9	39
107	The Ongoing Eruption in Montserrat. Science, 1997, 276, 371-372.	6.0	20