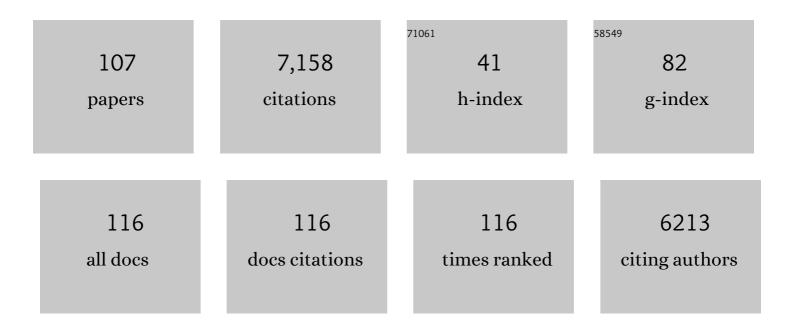
List of Publications by Year in descending order

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MIKE R LAMES

#	Article	IF	CITATIONS
1	Straightforward reconstruction of 3D surfaces and topography with a camera: Accuracy and geoscience application. Journal of Geophysical Research, 2012, 117, .	3.3	696
2	Mitigating systematic error in topographic models derived from UAV and groundâ€based image networks. Earth Surface Processes and Landforms, 2014, 39, 1413-1420.	1.2	605
3	Ground-based and UAV-Based photogrammetry: A multi-scale, high-resolution mapping tool for structural geology and paleoseismology. Journal of Structural Geology, 2014, 69, 163-178.	1.0	529
4	UAV-based remote sensing of the Super-Sauze landslide: Evaluation and results. Engineering Geology, 2012, 128, 2-11.	2.9	509
5	Optimising UAV topographic surveys processed with structure-from-motion: Ground control quality, quantity and bundle adjustment. Geomorphology, 2017, 280, 51-66.	1.1	440
6	3â€D uncertaintyâ€based topographic change detection with structureâ€fromâ€motion photogrammetry: precision maps for ground control and directly georeferenced surveys. Earth Surface Processes and Landforms, 2017, 42, 1769-1788.	1.2	322
7	Guidelines on the use of structureâ€fromâ€motion photogrammetry in geomorphic research. Earth Surface Processes and Landforms, 2019, 44, 2081-2084.	1.2	178
8	Comparing the Accuracy of Several Field Methods for Measuring Gully Erosion. Soil Science Society of America Journal, 2012, 76, 1319-1332.	1.2	170
9	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
10	Current Practices in UAS-based Environmental Monitoring. Remote Sensing, 2020, 12, 1001.	1.8	135
11	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
12	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
13	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
14	Exceptional mobility of an advancing rhyolitic obsidian flow at Cordón Caulle volcano in Chile. Nature Communications, 2013, 4, 2709.	5.8	110
15	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
16	Seismic source mechanism of degassing bursts at Kilauea Volcano, Hawaii: Results from waveform inversion in the 10–50 s band. Journal of Geophysical Research, 2010, 115, .	3.3	94
17	Volcanic plume electrification: Experimental investigation of a fracture-charging mechanism. Journal of Geophysical Research, 2000, 105, 16641-16649.	3.3	83
18	Surface temperature measurements of active lava flows on Kilauea volcano, Hawai′i. Journal of Volcanology and Geothermal Research, 2002, 113, 159-176.	0.8	78

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19	Cameras and settings for aerial surveys in the geosciences. Progress in Physical Geography, 2017, 41, 325-344.	1.4	78
20	Electrical Charging of Volcanic Plumes. Space Science Reviews, 2008, 137, 399-418.	3.7	76
21	Testing the utility of structureâ€fromâ€motion photogrammetry reconstructions using small unmanned aerial vehicles and ground photography to estimate the extent of upland soil erosion. Earth Surface Processes and Landforms, 2017, 42, 1860-1871.	1.2	73
22	Degassing at low magma-viscosity volcanoes: Quantifying the transition between passive bubble-burst and Strombolian eruption. Journal of Volcanology and Geothermal Research, 2009, 180, 81-88.	0.8	67
23	Mitigating systematic error in topographic models for geomorphic change detection: accuracy, precision and considerations beyond offâ€nadir imagery. Earth Surface Processes and Landforms, 2020, 45, 2251-2271.	1.2	67
24	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
25	Sequential digital elevation models of active lava flows from ground-based stereo time-lapse imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 97, 160-170.	4.9	63
26	Volcanological applications of unoccupied aircraft systems (UAS): Developments, strategies, and future challenges. Volcanica, 2020, 3, 67-114.	0.6	63
27	Density, construction, and drag coefficient of electrostatic volcanic ash aggregates. Journal of Geophysical Research, 2003, 108, .	3.3	61
28	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
29	The influence of edifice slope and substrata on volcano spreading. Journal of Volcanology and Geothermal Research, 2008, 177, 925-943.	0.8	58
30	Ultraâ€rapid topographic surveying for complex environments: the handâ€held mobile laser scanner (HMLS). Earth Surface Processes and Landforms, 2014, 39, 138-142.	1.2	55
31	The normalized topographic method: an automated procedure for gully mapping using GIS. Earth Surface Processes and Landforms, 2014, 39, 2002-2015.	1.2	55
32	Oblique photogrammetry with visible and thermal images of active lava flows. Bulletin of Volcanology, 2006, 69, 105-108.	1.1	52
33	Growth of the lava dome and extrusion rates at Soufrière Hills Volcano, Montserrat, West Indies: 2005–2008. Geophysical Research Letters, 2010, 37, .	1.5	52
34	Modelling the rapid near-surface expansion of gas slugs in low-viscosity magmas. Geological Society Special Publication, 2008, 307, 147-167.	0.8	51
35	Examining rhyolite lava flow dynamics through photo-based 3D reconstructions of the 2011–2012 lava flowfield at Cordón-Caulle, Chile. Journal of Volcanology and Geothermal Research, 2015, 304, 336-348.	0.8	50
36	Low-budget topographic surveying comes of age: Structure from motion photogrammetry in geography and the geosciences. Progress in Physical Geography, 2019, 43, 163-173.	1.4	49

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37	Quantifying ice cliff evolution with multi-temporal point clouds on the debris-covered Khumbu Glacier, Nepal. Journal of Glaciology, 2017, 63, 823-837.	1.1	48
38	Viscous plugging can enhance and modulate explosivity of strombolian eruptions. Earth and Planetary Science Letters, 2015, 423, 210-218.	1.8	47
39	Detecting the development of active lava flow fields with a veryâ€longâ€range terrestrial laser scanner and thermal imagery. Geophysical Research Letters, 2009, 36, .	1.5	45
40	Degassing-driven crystallisation in basalts. Earth-Science Reviews, 2013, 116, 1-16.	4.0	45
41	Lava dome growth and mass wasting measured by a time series of groundâ€based radar and seismicity observations. Journal of Geophysical Research, 2008, 113, .	3.3	43
42	Relationships between volcano gravitational spreading and magma intrusion. Bulletin of Volcanology, 2012, 74, 743-765.	1.1	42
43	Supraglacial lake drainage at a fast-flowing Greenlandic outlet glacier. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25468-25477.	3.3	41
44	Volcanic plume monitoring using atmospheric electric potential gradients. Journal of the Geological Society, 1998, 155, 587-590.	0.9	39
45	Thermal photogrammetric imaging: A new technique for monitoring dome eruptions. Journal of Volcanology and Geothermal Research, 2017, 337, 140-145.	0.8	39
46	Implementing an efficient beach erosion monitoring system for coastal management in Croatia. Ocean and Coastal Management, 2018, 156, 223-238.	2.0	39
47	National-scale geodata describe widespread accelerated soil erosion. Geoderma, 2020, 371, 114378.	2.3	39
48	SF3M software: 3-D photo-reconstruction for non-expert users and its application to a gully network. Soil, 2015, 1, 583-594.	2.2	38
49	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
50	Direct observations of degassing-induced crystallization in basalts. Geology, 2013, 41, 243-246.	2.0	37
51	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
52	Analogue experiments on the rise of large bubbles through a solids-rich suspension: A "weak plug― model for Strombolian eruptions. Earth and Planetary Science Letters, 2020, 531, 115931.	1.8	34
53	Viscoelastic behaviour of basaltic lavas. Journal of Volcanology and Geothermal Research, 2004, 132, 99-113.	0.8	32
54	Gas slug ascent in a stratified magma: Implications of flow organisation and instability for Strombolian eruption dynamics. Earth and Planetary Science Letters, 2016, 435, 159-170.	1.8	32

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55	The viscosity of pÄhoehoe lava: In situ syn-eruptive measurements from Kilauea, Hawaii. Earth and Planetary Science Letters, 2018, 493, 161-171.	1.8	32
56	Topographic and stochastic influences on pÄhoehoe lava lobe emplacement. Bulletin of Volcanology, 2013, 75, 1.	1.1	31
57	Separating the thermal fingerprints of lava flows and simultaneous lava fountaining using groundâ€based thermal camera and SEVIRI measurements. Geophysical Research Letters, 2013, 40, 5058-5063.	1.5	30
58	Evaluation of structure from motion for soil microtopography measurement. Photogrammetric Record, 2014, 29, 297-316.	0.4	30
59	High-resolution monitoring of diffuse (sheet or interrill) erosion using structure-from-motion. Geoderma, 2020, 375, 114477.	2.3	30
60	Quantifying Effusion Rates at Active Volcanoes through Integrated Time-Lapse Laser Scanning and Photography. Remote Sensing, 2015, 7, 14967-14987.	1.8	29
61	Morphological complexities and hazards during the emplacement of channel-fed `a`ĕlava flow fields: A study of the 2001 lower flow field on Etna. Bulletin of Volcanology, 2010, 72, 641-656.	1.1	28
62	Dynamics of mild strombolian activity on Mt. Etna. Journal of Volcanology and Geothermal Research, 2015, 300, 103-111.	0.8	26
63	Volcano dome dynamics at Mount St. Helens: Deformation and intermittent subsidence monitored by seismicity and camera imagery pixel offsets. Journal of Geophysical Research: Solid Earth, 2016, 121, 7882-7902.	1.4	26
64	PÄhoehoe flow cooling, discharge, and coverage rates from thermal image chronometry. Geophysical Research Letters, 2007, 34, .	1.5	25
65	A comparison of field- and satellite-derived thermal flux at Piton de la Fournaise: implications for the calculation of lava discharge rate. Bulletin of Volcanology, 2010, 72, 341-356.	1.1	25
66	The influence of cross-sectional channel geometry on rheology and flux estimates for active lava flows. Bulletin of Volcanology, 2014, 76, 1.	1.1	23
67	Using real time particle tracking to understand soil particle movements during rainfall events. Catena, 2017, 150, 32-38.	2.2	23
68	Large-scale experiments on dune erosion processes. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 20-30.	0.7	22
69	Pointcatcher software: analysis of glacial time-lapse photography and integration with multitemporal digital elevation models. Journal of Glaciology, 2016, 62, 159-169.	1.1	22
70	Use of a portable topographic mapping millimetre wave radar at an active lava flow. Geophysical Research Letters, 2006, 33, .	1.5	21
71	A statistical analysis of eruptive activity on Mount Etna, Sicily. Geophysical Journal International, 2009, 179, 655-666.	1.0	21
72	Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment. Geophysical Research Letters, 2016, 43, 5009-5016.	1.5	21

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73	The Ongoing Eruption in Montserrat. Science, 1997, 276, 371-372.	6.0	20
74	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
75	Characterizing beach intertidal bar systems using multiâ€annual LiDAR data. Earth Surface Processes and Landforms, 2019, 44, 1572-1583.	1.2	18
76	Emplacing a Cooling-Limited Rhyolite Lava Flow: Similarities with Basaltic Lava Flows. Frontiers in Earth Science, 2017, 5, .	0.8	17
77	Imaging short period variations in lava flux. Bulletin of Volcanology, 2010, 72, 671-676.	1.1	16
78	Lava flow superposition: The reactivation of flow units in compound 'a'ĕflows. Journal of Volcanology and Geothermal Research, 2010, 194, 100-106.	0.8	15
79	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
80	Comment on "lt 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 JC. Nave. Journal of Geophysical Research, 2011, 116, .	3.3	13
81	The implications of gas slug ascent in a stratified magma for acoustic and ground deformation source mechanisms in Strombolian eruptions. Earth and Planetary Science Letters, 2017, 468, 101-111.	1.8	13
82	Insights Into PÄhoehoe Lava Emplacement Using Visible and Thermal Structureâ€Fromâ€Motion Photogrammetry. Journal of Geophysical Research: Solid Earth, 2019, 124, 5678-5695.	1.4	12
83	The dynamics of slug trains in volcanic conduits: Evidence for expansion driven slug coalescence. Journal of Volcanology and Geothermal Research, 2017, 348, 26-35.	0.8	11
84	The origin and evolution of breakouts in a cooling-limited rhyolite lava flow. Bulletin of the Geological Society of America, 2019, 131, 137-154.	1.6	11
85	Using picosatellites for 4-D imaging of volcanic clouds: Proof of concept using ISS photography of the 2009 Sarychev Peak eruption. Remote Sensing of Environment, 2018, 210, 519-530.	4.6	10
86	Internal friction spectroscopy in Li2O–2SiO2 partially crystallised glasses. Journal of Non-Crystalline Solids, 2003, 319, 44-56.	1.5	9
87	Glacial Aerodynamic Roughness Estimates: Uncertainty, Sensitivity, and Precision in Field Measurements. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005167.	1.0	9
88	Electrostatic phenomena in volcanic eruptions. Journal of Physics: Conference Series, 2011, 301, 012004.	0.3	8
89	Post-fragmentation vesiculation timescales in hydrous rhyolitic bombs from Chaitén volcano. Journal of South American Earth Sciences, 2020, 104, 102807.	0.6	8
90	Sediment source and volume of soil erosion in a gully system using UAV photogrammetry. Revista Brasileira De Ciencia Do Solo, 2020, 44, .	0.5	8

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91	Electrical Charging of Volcanic Plumes. Space Sciences Series of ISSI, 2008, , 399-418.	0.0	7
92	Unsteady explosive activity. , 2013, , 107-128.		7
93	Pressure-Driven Opening and Filling of a Volcanic Hydrofracture Recorded by Tuffisite at Húsafell, Iceland: A Potential Seismic Source. Frontiers in Earth Science, 2021, 9, .	0.8	7
94	Influence of surface clinker on the crustal structures and dynamics of 'a'ĕlava flows. Journal of Geophysical Research, 2010, 115, .	3.3	6
95	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
96	High precision tracing of soil and sediment movement using fluorescent tracers at hillslope scale. Earth Surface Processes and Landforms, 2019, 44, 1091-1099.	1.2	5
97	Passive and active imaging at 94 GHz for environmental remote sensing. Proceedings of SPIE, 2013, , .	0.8	4
98	Crowd-sourcing structure-from- motion data for terrain modelling in a real-world disaster scenario: A proof of concept. Progress in Physical Geography, 2019, 43, 236-259.	1.4	4
99	Refining an ensemble of volcanic ash forecasts using satellite retrievals: Raikoke 2019. Atmospheric Chemistry and Physics, 2022, 22, 6115-6134.	1.9	4
100	The assimilation of historic photography and cartography into longterm coastal geomorphological analysis. Procedia Environmental Sciences, 2010, 2, 527-534.	1.3	3
101	Correcting for Systematic Underestimation of Topographic Glacier Aerodynamic Roughness Values From Hintereisferner, Austria. Frontiers in Earth Science, 2021, 9, .	0.8	3
102	An Integrated Modeling Approach for Analyzing the Deformation Style of Active Volcanoes: Sommaâ€Vesuvius Case Study. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	3
103	Structure-from-Motion (SfM) monitoring of nourished gravel beaches in Croatia. , 2018, , .		2
104	A novel experimental chamber for the characterization of free-falling particles in volcanic plumes. Review of Scientific Instruments, 2022, 93, .	0.6	2
105	Validation of the AVTIS volcano imager radiometry — A comparison of infrared and millimetre wave thermal imagery. , 2010, , .		1
106	Geodetic Applications to Geomorphology. , 2021, , .		1
107	Reproducibility, open science and progression in soil erosion research. A reply to "Response to â€~National-scale geodata describe widespread accelerated soil erosion' Benaud et al. (2020) Geoderma 271, 114378―by Evans and Boardman (2021). Geoderma, 2021, 402, 115181.	2.3	1