Michael G Ramsey

List of Publications by Year
in descending order

64	2,126	304743	243625
papers	citations	22 h-index	44 g-index

69	69	69	1792
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring urban land cover change. Remote Sensing of Environment, 2001, 77, 173-185.	11.0	410
2	Mineral abundance determination: Quantitative deconvolution of thermal emission spectra. Journal of Geophysical Research, 1998, 103, 577-596.	3.3	361
3	Volcanology 2020: How will thermal remote sensing of volcanic surface activity evolve over the next decade?. Journal of Volcanology and Geothermal Research, 2013, 249, 217-233.	2.1	92
4	Estimating silicic lava vesicularity with thermal remote sensing: a new technique for volcanic mapping and monitoring. Bulletin of Volcanology, 1999, 61, 32-39.	3.0	88
5	Identification of sand sources and transport pathways at the Kelso Dunes, California, using thermal infrared remote sensing. Bulletin of the Geological Society of America, 1999, 111, 646-662.	3.3	87
6	Analysis of hot springs and associated deposits in Yellowstone National Park using ASTER and AVIRIS remote sensing. Journal of Volcanology and Geothermal Research, 2004, 135, 195-219.	2.1	81
7	Spaceborne observations of the 2000 Bezymianny, Kamchatka eruption: the integration of high-resolution ASTER data into near real-time monitoring using AVHRR. Journal of Volcanology and Geothermal Research, 2004, 135, 127-146.	2.1	79
8	Determining soil moisture and sediment availability at White Sands Dune Field, New Mexico, from apparent thermal inertia data. Journal of Geophysical Research, 2010, 115, .	3.3	62
9	The protracted development of focused magmatic intrusion during continental rifting. Tectonics, 2014, 33, 875-897.	2.8	47
10	Radiometric normalization and image mosaic generation of ASTER thermal infrared data: An application to extensive sand sheets and dune fields. Remote Sensing of Environment, 2008, 112, 920-933.	11.0	43
11	ASTER and field observations of the 24 December 2006 eruption of Bezymianny Volcano, Russia. Remote Sensing of Environment, 2008, 112, 2569-2577.	11.0	41
12	Strategies, insights, and the recent advances in volcanic monitoring and mapping with data from NASA's Earth Observing System. Journal of Volcanology and Geothermal Research, 2004, 135, 1-11.	2.1	35
13	Monitoring eruptive activity at Mount St. Helens with TIR image data. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	35
14	Detection of a new summit crater on Bezymianny Volcano lava dome: satellite and field-based thermal data. Bulletin of Volcanology, 2007, 69, 811-815.	3.0	34
15	Thermal infrared reflectance and emission spectroscopy of quartzofeldspathic glasses. Geophysical Research Letters, 2007, 34, .	4.0	31
16	Surface unit characterization of the Mauna Ulu flow field, Kilauea Volcano, Hawaiâ€²i, using integrated field and remote sensing analyses. Journal of Volcanology and Geothermal Research, 2004, 135, 169-193.	2.1	30
17	Synergistic use of satellite thermal detection and science: a decadal perspective using ASTER. Geological Society Special Publication, 2016, 426, 115-136.	1.3	30
18	Morphologic and thermophysical characteristics of lava flows southwest of Arsia Mons, Mars. Journal of Volcanology and Geothermal Research, 2017, 342, 13-28.	2.1	28

#	Article	IF	Citations
19	Validation of an integrated satellite-data-driven response to an effusive crisis: the Aprilâ€“May 2018 eruption of Piton de la Fournaise. Annals of Geophysics, 2019, 61, .	1.0	26
20	Exploration of geothermal systems using hyperspectral thermal infrared remote sensing. Journal of Volcanology and Geothermal Research, 2013, 265, 27-38.	2.1	25
21	Ejecta distribution patterns at Meteor Crater, Arizona: On the applicability of lithologic end-member deconvolution for spaceborne thermal infrared data of Earth and Mars. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	24
22	ASTER- and field-based observations at Bezymianny Volcano: Focus on the 11 May 2007 pyroclastic flow deposit. Remote Sensing of Environment, 2009, 113, 2142-2151.	11.0	24
23	The Spatial and Spectral Resolution of ASTER Infrared Image Data: A Paradigm Shift in Volcanological Remote Sensing. Remote Sensing, 2020, 12, 738.	4.0	23
24	The 2005 eruption of Kliuchevskoi volcano: Chronology and processes derived from ASTER spaceborne and field-based data. Journal of Volcanology and Geothermal Research, 2009, 184, 367-380.	2.1	22
25	Long-Term Volcanic Activity at Shiveluch Volcano: Nine Years of ASTER Spaceborne Thermal Infrared Observations. Remote Sensing, 2010, 2, 2571-2583.	4.0	22
26	Development of a new laboratory technique for highâ€temperature thermal emission spectroscopy of silicate melts. Journal of Geophysical Research: Solid Earth, 2013, 118, 1968-1983.	3.4	22
27	Micronâ€scale roughness of volcanic surfaces from thermal infrared spectroscopy and scanning electron microscopy. Journal of Geophysical Research, 2009, 114, .	3.3	20
28	Surface textures and dynamics of the 2005 lava dome at Shiveluch volcano, Kamchatka. Bulletin of the Geological Society of America, 2012, 124, 678-689.	3.3	20
29	Combining Groundâ€and ASTERâ€Based Thermal Measurements to Constrain Fumarole Field Heat Budgets: The Case of Vulcano Fossa 2000â€“2019. Geophysical Research Letters, 2019, 46, 11868-11877.	4.0	19
30	MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5447-5457.	6.3	18
31	Magmatically assisted off-rift extensionâ€”The case for broadly distributed strain accommodation. , 2018, 14, 1544-1563.		15
32	The influence of emissivity on the thermo-rheological modeling of the channelized lava flows at Tolbachik volcano. Annals of Geophysics, 2019, 61, .	1.0	15
33	Remote sensing and geologic mapping of glaciovolcanic deposits in the region surrounding Askja (DyngjufjÃ¶ll) volcano, Iceland. International Journal of Remote Sensing, 2013, 34, 7178-7198.	2.9	14
34	Thermal deconvolution: Accurate retrieval of multispectral infrared emissivity from thermally-mixed volcanic surfaces. Remote Sensing of Environment, 2014, 140, 690-703.	11.0	14
35	Thermal and seismic precursors to the explosive eruption at La SoufriÃ¨re Volcano, St. Vincent in April 2021. Earth and Planetary Science Letters, 2022, 592, 117621.	4.4	13
36	Spectral analysis of synthetic quartzofeldspathic glasses using laboratory thermal infrared spectroscopy. Journal of Geophysical Research, 2010, 115, .	3.3	12

#	Article	IF	Citations
37	Volcano Crisis Management at Piton de la Fournaise (La RÃ©union) during the COVID-19 Lockdown. Seismological Research Letters, 2021, 92, 38-52.	1.9	12
38	Mapping the City Landscape from Space: The Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER) Urban Environmental Monitoring Program. Special Publications, 0, , 337-361.	0.0	11
39	MMT-Cam: A New Miniature Multispectral Thermal Infrared Camera System for Capturing Dynamic Earth Processes. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7438-7446.	6.3	11
40	The influence of variable emissivity on lava flow propagation modeling. Bulletin of Volcanology, 2021, 83, 1.	3.0	11
41	What can thermal infrared remote sensing of terrestrial volcanoes tell us about processes past and present on Mars?. Journal of Volcanology and Geothermal Research, 2016, 311, 198-216.	2.1	10
42	Implementation of the NHI (Normalized Hot Spot Indices) Algorithm on Infrared ASTER Data: Results and Future Perspectives. Sensors, 2021, 21, 1538.	3.8	10
43	Thermal infrared data analyses of Meteor Crater, Arizona: Implications for Mars spaceborne data from the Thermal Emission Imaging System. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	9
44	Parametric analysis of lava dome-collapse events and pyroclastic deposits at Shiveluch volcano, Kamchatka, using visible and infrared satellite data. Journal of Volcanology and Geothermal Research, 2018, 354, 115-129.	2.1	9
45	Spatiotemporal variability of active lava surface radiative properties using ground-based multispectral thermal infrared data. Journal of Volcanology and Geothermal Research, 2020, 408, 107077.	2.1	9
46	Volcanology 2030: will an orbital volcano observatory finally become a reality?. Bulletin of Volcanology, 2022, 84, 1.	3.0	9
47	Super-resolution of THEMIS thermal infrared data: Compositional relationships of surface units below the 100 meter scale on Mars. Icarus, 2010, 208, 704-720.	2.5	7
48	Pyroclastic Density Current Hazard Assessment and Modeling Uncertainties for Fuego Volcano, Guatemala. Remote Sensing, 2020, 12, 2790.	4.0	6
49	Uncertainty Analysis of Remotely-Acquired Thermal Infrared Data to Extract the Thermal Properties of Active Lava Surfaces. Remote Sensing, 2020, 12, 193.	4.0	6
50	Satellite-Based Thermophysical Analysis of Volcaniclastic Deposits: A Terrestrial Analog for Mantled Lava Flows on Mars. Remote Sensing, 2016, 8, 152.	4.0	5
51	The Unusual Thermophysical and Surface Properties of the Daedalia Planum Lava Flows. Journal of Geophysical Research E: Planets, 2019, 124, 1945-1959.	3.6	5
52	On the Applicability of Laboratory Thermal Infrared Emissivity Spectra for Deconvolving Satellite Data of Opaque Volcanic Ash Plumes. Remote Sensing, 2019, 11, 2318.	4.0	5
53	Analysis of ash emissions from the 2020 Nishinoshima eruption using ASTER thermal infrared orbital data. Journal of Volcanology and Geothermal Research, 2022, 421, 107424.	2.1	5
54	The Impact of Dynamic Emissivityâ€“Temperature Trends on Spaceborne Data: Applications to the 2001 Mount Etna Eruption. Remote Sensing, 2022, 14, 1641.	4.0	5

#	Article	IF	Citations
55	Optical Satellite Volcano Monitoring: A Multi-Sensor Rapid Response System. , 0, , .		4
56	Equilibrium crystallization modeling of Venusian lava flows incorporating data with large geochemical uncertainties. Earth and Planetary Science Letters, 2019, 516, 156-163.	4.4	3
57	Quantitative Thermal Emission Spectroscopy at High Temperatures: A Laboratory Approach for Measurement and Calibration. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022157.	3.4	3
58	Structured elicitation of expert judgement in real-time eruption scenarios: an exercise for Piton de la Fournaise volcano, La RÃ©union island. Volcanica, 2022, 5, 105-131.	1.8	2
59	Applications of high-resolution satellite remote sensing for northern Pacific volcanic arcs. , 2015, , 79-99.		1
60	Identifying eruptive sources of drifting volcanic ash clouds using back-trajectory modeling of spaceborne thermal infrared data. Bulletin of Volcanology, 2019, 81, 1.	3.0	1
61	Assessing Lava Flow Subpixel Surface Roughness and Particle Size Distribution for Improved Thermal Inertia Interpretations. Remote Sensing, 2020, 12, 2914.	4.0	1
62	Monitoring volcanic threats using ASTER satellite data. , 2007, , .		0
63	A radiometrically-accurate super-resolution approach to thermal infrared image data. International Journal of Image and Data Fusion, 2013, 4, 52-74.	1.7	0
64	Operationalizing Global Volcano Monitoring Using High Resolution Orbital Remote Sensing. , 2021, , .		0