

# Jean Vandemeulebrouck

## List of Publications by Year in descending order

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48  
papers

1,689  
citations

236925

25  
h-index

289244

40  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of thermal-driven processes triggering the 2005–2014 unrest at Campi Flegrei caldera. <i>Earth and Planetary Science Letters</i> , 2015, 414, 58-67.	4.4	149
2	Magmas near the critical degassing pressure drive volcanic unrest towards a critical state. <i>Nature Communications</i> , 2016, 7, 13712.	12.8	144
3	Holocene paleotemperatures deduced from geothermal measurements. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1983, 43, 237-259.	2.3	92
4	Radon anomaly in the soil of Taal volcano, the Philippines: A likely precursor of the M 7.1 Mindoro earthquake (1994). <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	86
5	The plumbing of Old Faithful Geyser revealed by hydrothermal tremor. <i>Geophysical Research Letters</i> , 2013, 40, 1989-1993.	4.0	67
6	Locating hydrothermal acoustic sources at Old Faithful Geyser using Matched Field Processing. <i>Geophysical Journal International</i> , 2011, 187, 385-393.	2.4	65
7	Three-Dimensional Electrical Resistivity Tomography of the Solfatara Crater (Italy): Implication for the Multiphase Flow Structure of the Shallow Hydrothermal System. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8749-8768.	3.4	62
8	Relations between electrical resistivity, carbon dioxide flux, and self-potential in the shallow hydrothermal system of Solfatara (Phlegrean Fields, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 283, 172-182.	2.1	58
9	A two-magma chamber model as a source of deformation at GrÃnsvÃn Volcano, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4666-4683.	3.4	56
10	Eruptions at Lone Star Geyser, Yellowstone National Park, USA: 1. Energetics and eruption dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4048-4062.	3.4	49
11	Eruptions at Lone Star geyser, Yellowstone National Park, USA: 2. Constraints on subsurface dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8688-8707.	3.4	44
12	A case study of resistivity and self-potential signatures of hydrothermal instabilities, Inferno Crater Lake, Waimangu, New Zealand. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	39
13	Electrical conductivity, ground displacement, gravity changes, and gas flow at Solfatara crater (Campi Flegrei caldera, Italy): Results from numerical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 93-105.	2.1	37
14	Hydroacoustic noise precursors of the 1990 eruption of Kelut Volcano, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 97, 443-456.	2.1	35
15	3D ultra-high resolution seismic imaging of shallow Solfatara crater in Campi Flegrei (Italy): New insights on deep hydrothermal fluid circulation processes. <i>Scientific Reports</i> , 2017, 7, 3412.	3.3	35
16	Effects of atmospheric conditions on surface diffuse degassing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	34
17	Fumarolic tremor and geochemical signals during a volcanic unrest. <i>Geology</i> , 2017, 45, 1131-1134.	4.4	34
18	Periodic behavior of soil CO <sub>2</sub> emissions in diffuse degassing areas of the Azores archipelago: Application to seismovolcanic monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7578-7597.	3.4	33

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19	Analogue modeling of instabilities in crater lake hydrothermal systems. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	32
20	Electrical resistivity tomography and time-domain induced polarization field investigations of geothermal areas at Krafla, Iceland: comparison to borehole and laboratory frequency-domain electrical observations. <i>Geophysical Journal International</i> , 2019, 218, 1469-1489.	2.4	32
21	Mapping the 2010 Merapi pyroclastic deposits using dual-polarization Synthetic Aperture Radar (SAR) data. <i>Remote Sensing of Environment</i> , 2015, 158, 180-192.	11.0	30
22	Geophysical image of the hydrothermal system of Merapi volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 329, 30-40.	2.1	29
23	The effects of hydrothermal eruptions and a tectonic earthquake on a cycling crater lake (Inferno) Tj ETQq1 1 0.784314 rgBT /Overloc 271-275.	2.1	27
24	Dyke leakage localization and hydraulic permeability estimation through self-potential and hydro-acoustic measurements: Self-potential "abacus" diagram for hydraulic permeability estimation and uncertainty computation. <i>Journal of Applied Geophysics</i> , 2012, 86, 17-28.	2.1	27
25	Anatomy of a fumarolic system inferred from a multiphysics approach. <i>Scientific Reports</i> , 2018, 8, 7580.	3.3	27
26	Insight Into Campi Flegrei Caldera Unrest Through Seismic Tremor Measurements at Pisciarelli Fumarolic Field. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5544-5555.	2.5	26
27	Thermal infrared satellite measurements of volcanic activity at Stromboli and Vulcano. <i>Journal of Geophysical Research</i> , 1994, 99, 9477-9485.	3.3	25
28	Self-potential and passive seismic monitoring of hydrothermal activity: A case study at Iodine Pool, Waimangu geothermal valley, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 179, 11-18.	2.1	25
29	Volcanic Lakes. <i>Advances in Volcanology</i> , 2015, , 1-20.	1.1	25
30	3-D interpretation of short-period magnetotelluric data at Furnas Volcano, Azores Islands. <i>Geophysical Journal International</i> , 2018, 213, 371-386.	2.4	25
31	Possible deep connection between volcanic systems evidenced by sequential assimilation of geodetic data. <i>Scientific Reports</i> , 2018, 8, 11702.	3.3	24
32	Application of acoustic noise and self-potential localization techniques to a buried hydrothermal vent (Waimangu Old Geyser site, New Zealand). <i>Geophysical Journal International</i> , 2010, 180, 883-890.	2.4	22
33	High-resolution shallow seismic tomography of a hydrothermal area: application to the Solfatara, Pozzuoli. <i>Geophysical Journal International</i> , 2012, 189, 1725-1733.	2.4	20
34	Influence of the regional topography on the remote emplacement of hydrothermal systems with examples of Ticsani and Ubinas volcanoes, Southern Peru. <i>Earth and Planetary Science Letters</i> , 2013, 365, 152-164.	4.4	20
35	Structure of the acid hydrothermal system of Papandayan volcano, Indonesia, investigated by geophysical methods. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 77-86.	2.1	18
36	Acoustic noise and temperature monitoring of the Crater Lake of Mount Ruapehu Volcano. <i>Journal of Volcanology and Geothermal Research</i> , 1996, 71, 45-51.	2.1	16

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37	Volcano-glacier interactions on composite cones and lahar generation: Nevado del Ruiz, Colombia, case study. <i>Annals of Glaciology</i> , 2007, 45, 115-127.	1.4	16
38	A strongly heterogeneous hydrothermal area imaged by surface waves: the case of Solfatara, Campi Flegrei, Italy. <i>Geophysical Journal International</i> , 2016, 205, 1813-1822.	2.4	15
39	Changes in CO <sub>2</sub> diffuse degassing induced by the passing of seismic waves. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 320, 12-18.	2.1	15
40	Heat and Mass Transport in a Vapor-Dominated Hydrothermal Area in Yellowstone National Park, USA: Inferences From Magnetic, Electrical, Electromagnetic, Subsurface Temperature, and Diffuse CO <sub>2</sub> Flux Measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 291-309.	3.4	14
41	Tracking Episodes of Seismicity and Gas Transport in Campi Flegrei Caldera Through Seismic, Geophysical, and Geochemical Measurements. <i>Seismological Research Letters</i> , 2021, 92, 965-975.	1.9	14
42	Hydrothermal activity and subsoil complexity: implication for degassing processes at Solfatara crater, Campi Flegrei caldera. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	11
43	Snapshot of a magmatic/hydrothermal system from electrical resistivity tomography and fumarolic composition, Whakaari/White Island, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 400, 106909.	2.1	11
44	Satellite monitoring of the vertical temperature profile of Lake Nyos, Cameroon. <i>Journal of Volcanology and Geothermal Research</i> , 1990, 42, 381-385.	2.1	8
45	Implications for the thermal regime of acoustic noise measurements in Crater Lake, Mount Ruapehu, New Zealand. <i>Bulletin of Volcanology</i> , 1994, 56, 493-501.	3.0	8
46	Radon signature of CO <sub>2</sub> flux constrains the depth of degassing: Furnas volcano (Azores, Portugal) versus Syabru-Bensi (Nepal Himalayas). <i>Scientific Reports</i> , 2022, 12, .	3.3	5
47	Turbulence-induced bubble nucleation in hydrothermal fluids beneath Yellowstone Lake. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	3
48	Editorial: Multidisciplinary Geophysical Imaging of Volcanoes. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	0