

Fabio Caratori Tontini

List of Publications by Year in descending order

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72
papers

1,997
citations

257450

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265206

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docs citations

77
times ranked

2043
citing authors

#	ARTICLE	IF	CITATIONS
1	Petrophysical Facies and Inferences on Permeability at Brothers Volcano, Kermadec Arc, Using Downhole Images and Petrophysical Data. <i>Economic Geology</i> , 2023, 118, 1629-1655.	3.8	5
2	Basement Topography and Sediment Thickness Beneath Antarctica's Ross Ice Shelf. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
3	The integrated history of repeated caldera formation and infill at the Okataina Volcanic Centre: Insights from 3D gravity and magnetic models. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 427, 107555.	2.1	13
4	Magnetic Expression of Hydrothermal Systems Hosted by Submarine Calderas in Subduction Settings: Examples from the Palinuro and Brothers Volcanoes. <i>Geosciences (Switzerland)</i> , 2021, 11, 504.	2.2	3
5	Evaluating temporal stability of the New Zealand quasigeoid following the 2016 Kaikōura earthquake using satellite radar remote sensing. <i>Geophysical Journal International</i> , 2020, 220, 1917-1927.	2.4	3
6	Complex subsurface hydrothermal fluid mixing at a submarine arc volcano supports distinct and highly diverse microbial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32627-32638.	7.1	36
7	Where are the Pink and White Terraces of Lake Rotomahana?. <i>Journal of the Royal Society of New Zealand</i> , 2019, 49, 36-59.	1.9	8
8	Heat Flow and Near-Sea Floor Magnetic Anomalies Highlight Hydrothermal Circulation at Brothers Volcano Caldera, Southern Kermadec Arc, New Zealand. <i>Geophysical Research Letters</i> , 2019, 46, 8252-8260.	4.0	22
9	Critical role of caldera collapse in the formation of seafloor mineralization: The case of Brothers volcano. <i>Geology</i> , 2019, 47, 762-766.	4.4	42
10	Early evolution of a young back-arc basin in the Havre Trough. <i>Nature Geoscience</i> , 2019, 12, 856-862.	12.9	42
11	Ross Ice Shelf response to climate driven by the tectonic imprint on seafloor bathymetry. <i>Nature Geoscience</i> , 2019, 12, 441-449.	12.9	88
12	New Age and Geochemical Data from the Southern Colville and Kermadec Ridges, SW Pacific: Insights into the recent geological history and petrogenesis of the Proto-Kermadec (Vitiāz) Arc. <i>Gondwana Research</i> , 2019, 72, 169-193.	6.0	15
13	Semi-automatic determination of dips and depths of geologic contacts from magnetic data with application to the Turi Fault System, Taranaki Basin, New Zealand. <i>Journal of Applied Geophysics</i> , 2018, 150, 67-73.	2.1	3
14	The largest deep-ocean silicic volcanic eruption of the past century. <i>Science Advances</i> , 2018, 4, e1701121.	10.3	80
15	The New Zealand gravimetric quasigeoid model 2017 that incorporates nationwide airborne gravimetry. <i>Journal of Geodesy</i> , 2018, 92, 923-937.	3.6	13
16	Geophysical Constraints on the Relationship Between Seamount Subduction, Slow Slip, and Tremor at the North Hikurangi Subduction Zone, New Zealand. <i>Geophysical Research Letters</i> , 2018, 45, 12,804.	4.0	72
17	Gsolve, a Python computer program with a graphical user interface to transform relative gravity survey measurements to absolute gravity values and gravity anomalies. <i>SoftwareX</i> , 2018, 7, 129-137.	2.6	11
18	Hydrothermal Venting at Hinepuia Submarine Volcano, Kermadec Arc: Understanding Magmatic-Hydrothermal Fluid Chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3646-3661.	2.5	18

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19	Gravity anomaly grids for the New Zealand region. <i>New Zealand Journal of Geology, and Geophysics</i> , 2017, 60, 381-391.	1.8	8
20	Volcanism in slab tear faults is larger than in island-arcs and back-arcs. <i>Nature Communications</i> , 2017, 8, 1451.	12.8	31
21	Reconstruction of the geology and structure of Lake Rotomahana and its hydrothermal systems from high-resolution multibeam mapping and seismic surveys: Effects of the 1886 Tarawera Rift eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 57-83.	2.1	28
22	Trench-perpendicular Geochemical Variation Between two Adjacent Kermadec Arc Volcanoes Rumble II East and West: the Role of the Subducted Hikurangi Plateau in Element Recycling in Arc Magmas. <i>Journal of Petrology</i> , 2016, 57, 1335-1360.	2.8	15
23	Inversion of magnetic and gravity data reveals subsurface igneous bodies in Northland, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2016, 59, 416-425.	1.8	1
24	Crustal magnetization and the seafloor structure of the ASHES vent field, Axial Seamount, Juan de Fuca Ridge: Implications for the investigation of hydrothermal sites. <i>Geophysical Research Letters</i> , 2016, 43, 6205-6211.	4.0	10
25	A novel heat flux study of a geothermally active lake " Lake Rotomahana, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 95-109.	2.1	21
26	The Pink and White Terraces of Lake Rotomahana: what was their fate after the 1886 Tarawera Rift eruption?. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 126-141.	2.1	18
27	Interpretation of gravity and magnetic anomalies at Lake Rotomahana: Geological and hydrothermal implications. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 84-94.	2.1	33
28	High-resolution magnetics reveal the deep structure of a volcanic-related basalt-hosted hydrothermal site (Palinuro, Tyrrhenian Sea). <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1950-1961.	2.5	26
29	Subduction of the oceanic Hikurangi Plateau and its impact on the Kermadec arc. <i>Nature Communications</i> , 2014, 5, 4923.	12.8	45
30	Near-Bottom Magnetic Signatures of Submarine Hydrothermal Systems at Marsili and Palinuro Volcanoes, Southern Tyrrhenian Sea, Italy. <i>Economic Geology</i> , 2014, 109, 2119-2128.	3.8	24
31	The Anatomy of a Buried Submarine Hydrothermal System, Clark Volcano, Kermadec Arc, New Zealand. <i>Economic Geology</i> , 2014, 109, 2261-2292.	3.8	38
32	Mapping of Seafloor Hydrothermally Altered Rocks Using Geophysical Methods: Marsili and Palinuro Seamounts, Southern Tyrrhenian Sea. <i>Economic Geology</i> , 2014, 109, 2103-2117.	3.8	22
33	Geophysical modeling of collapse-prone zones at Rumble III seamount, southern Pacific Ocean, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4667-4680.	2.5	10
34	Detailed Morphology and Structure of an Active Submarine Arc Caldera: Brothers Volcano, Kermadec Arc. <i>Economic Geology</i> , 2012, 107, 1557-1570.	3.8	51
35	Crustal Magnetization of Brothers Volcano, New Zealand, Measured by Autonomous Underwater Vehicles: Geophysical Expression of a Submarine Hydrothermal System. <i>Economic Geology</i> , 2012, 107, 1571-1581.	3.8	56
36	Geology, Hydrothermal Activity, and Sea-Floor Massive Sulfide Mineralization at the Rumble II West Mafic Caldera. <i>Economic Geology</i> , 2012, 107, 1649-1668.	3.8	21

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37	Birth of an ocean in the Red Sea: Initial pangs. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	78
38	3D focused inversion of near-seafloor magnetic data with application to the Brothers volcano hydrothermal system, Southern Pacific Ocean, New Zealand. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45
39	Rapid interactive modeling of 3D magnetic anomalies. <i>Computers and Geosciences</i> , 2012, 48, 308-315.	4.2	15
40	Marine Archaeogeophysical Prospection of Roman Salapia Settlement (Puglia, Italy): Detecting Ancient Harbour Remains. <i>Archaeological Prospection</i> , 2012, 19, 89-101.	2.2	9
41	Initial burst of oceanic crust accretion in the Red Sea due to edge-driven mantle convection. <i>Geology</i> , 2011, 39, 1019-1022.	4.4	51
42	Determining Geophysical Properties of a Near-Surface Cave through Integrated Microgravity Vertical Gradient and Electrical Resistivity Tomography Measurements. <i>Journal of Cave and Karst Studies</i> , 2011, 73, 11-15.	0.6	39
43	Interactions between volcanism and tectonics in the western Aeolian sector, southern Tyrrhenian Sea. <i>Geophysical Journal International</i> , 2010, 183, 64-78.	2.4	26
44	Potential-field modeling of collapse-prone submarine volcanoes in the southern Tyrrhenian Sea (Italy). <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	31
45	Environmental magneto-gradiometric marine survey in a highly anthropic noisy area. <i>Annals of Geophysics</i> , 2010, 52, .	1.0	0
46	Chronology of the transition from a spreading ridge to an accretional seamount in the Marsili backarc basin (Tyrrhenian Sea). <i>Terra Nova</i> , 2009, 21, 369-374.	2.1	40
47	Description of low-lying state structures with Skyrme interaction. <i>Physics of Atomic Nuclei</i> , 2009, 72, 1733-1737.	0.4	4
48	EMAG2: A 2 arc min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	452
49	Rapid 3D forward model of potential fields with application to the Palinuro Seamount magnetic anomaly (southern Tyrrhenian Sea, Italy). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
50	The revised aeromagnetic anomaly map of Italy. <i>Annals of Geophysics</i> , 2009, 47, .	1.0	10
51	Looking inside the Panarea Island (Aeolian Archipelago, Italy) by gravity and magnetic data. <i>Annals of Geophysics</i> , 2009, 51, .	1.0	0
52	High-resolution marine magnetic surveys for searching underwater cultural resources. <i>Annals of Geophysics</i> , 2009, 49, .	1.0	2
53	Tortonian-Pleistocenic oceanic features in the Southern Tyrrhenian Sea: magnetic inverse model of the Selli-Vavilov region. <i>Marine Geophysical Researches</i> , 2008, 29, 251-266.	1.2	4
54	Interpreting magnetic data by integral moments. <i>Geophysical Journal International</i> , 2008, 174, 815-824.	2.4	19

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55	Potential-field inversion for a layer with uneven thickness: The Tyrrhenian Sea density model. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 166, 105-111.	1.9	29
56	Determining the optimal Bouguer density for a gravity data set: implications for the isostatic setting of the Mediterranean Sea. <i>Geophysical Journal International</i> , 2007, 169, 380-388.	2.4	36
57	Depth-to-the-bottom optimization for magnetic data inversion: Magnetic structure of the Latium volcanic region, Italy. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	23
58	Reply to the discussion. <i>Geophysics</i> , 2006, 71, X7-X10.	2.6	0
59	Stable inverse deconvolution of magnetic data. <i>Geophysical Journal International</i> , 2005, 162, 725-735.	2.4	1
60	Magnetic-anomaly Fourier spectrum of a 3D Gaussian source. <i>Geophysics</i> , 2005, 70, L1-L5.	2.6	6
61	A topographic surface reduction of aeromagnetic anomaly field over the Tyrrhenian sea area (Italy). <i>Marine Geophysical Researches</i> , 2003, 24, 265-277.	1.2	2
62	Gaussian envelope for 3D geomagnetic data inversion. <i>Geophysics</i> , 2003, 68, 996-1007.	2.6	11
63	Title is missing!. <i>Marine Geophysical Researches</i> , 2002, 23, 353-365.	1.2	9
64	A two million-year history of rifting and caldera volcanism imprinted in new gravity anomaly compilation of the Taupō Volcanic Zone, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 0, , 1-14.	1.8	11
65	New Zealand gravity reference stations 2020: history and development of the gravity network. <i>New Zealand Journal of Geology, and Geophysics</i> , 0, , 1-12.	1.8	3
66	Expedition 376 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	9
67	Expedition 376 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	15
68	Site U1528. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	7
69	Site U1530. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
70	Site U1529. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3
71	Site U1527. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
72	Site U1531. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1