Fabio Caratori Tontini

List of Publications by Year
in descending order

72	1,997	257450 24	265206 42
papers	citations	h-index	g-index

77	77	77	2043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EMAG2: A 2â€“arc min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	452
2	Ross Ice Shelf response to climate driven by the tectonic imprint on seafloor bathymetry. Nature Geoscience, 2019, 12, 441-449.	12.9	88
3	The largest deep-ocean silicic volcanic eruption of the past century. Science Advances, 2018, 4, e1701121.	10.3	80
4	Birth of an ocean in the Red Sea: Initial pangs. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	78
5	Geophysical Constraints on the Relationship Between Seamount Subduction, Slow Slip, and Tremor at the North Hikurangi Subduction Zone, New Zealand. Geophysical Research Letters, 2018, 45, 12,804.	4.0	72
6	Rapid 3â€Ð forward model of potential fields with application to the Palinuro Seamount magnetic anomaly (southern Tyrrhenian Sea, Italy). Journal of Geophysical Research, 2009, 114, .	3.3	60
7	Crustal Magnetization of Brothers Volcano, New Zealand, Measured by Autonomous Underwater Vehicles: Geophysical Expression of a Submarine Hydrothermal System. Economic Geology, 2012, 107, 1571-1581.	3.8	56
8	Initial burst of oceanic crust accretion in the Red Sea due to edge-driven mantle convection. Geology, 2011, 39, 1019-1022.	4.4	51
9	Detailed Morphology and Structure of an Active Submarine Arc Caldera: Brothers Volcano, Kermadec Arc. Economic Geology, 2012, 107, 1557-1570.	3.8	51
10	3â€Ð focused inversion of nearâ€seafloor magnetic data with application to the Brothers volcano hydrothermal system, Southern Pacific Ocean, New Zealand. Journal of Geophysical Research, 2012, 117, .	3.3	45
11	Subduction of the oceanic Hikurangi Plateau and its impact on the Kermadec arc. Nature Communications, 2014, 5, 4923.	12.8	45
12	Critical role of caldera collapse in the formation of seafloor mineralization: The case of Brothers volcano. Geology, 2019, 47, 762-766.	4.4	42
13	Early evolution of a young back-arc basin in the Havre Trough. Nature Geoscience, 2019, 12, 856-862.	12.9	42
14	Chronology of the transition from a spreading ridge to an accretional seamount in the Marsili backarc basin (Tyrrhenian Sea). Terra Nova, 2009, 21, 369-374.	2.1	40
15	Determining Geophysical Properties of a Near-Surface Cave through Integrated Microgravity Vertical Gradient and Electrical Resistivity Tomography Measurements. Journal of Cave and Karst Studies, 2011, 73, 11-15.	0.6	39
16	The Anatomy of a Buried Submarine Hydrothermal System, Clark Volcano, Kermadec Arc, New Zealand. Economic Geology, 2014, 109, 2261-2292.	3.8	38
17	Determining the optimal Bouguer density for a gravity data set: implications for the isostatic setting of the Mediterranean Sea. Geophysical Journal International, 2007, 169, 380-388.	2.4	36
18	Complex subsurface hydrothermal fluid mixing at a submarine arc volcano supports distinct and highly diverse microbial communities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32627-32638.	7.1	36

#	Article	IF	Citations
19	Interpretation of gravity and magnetic anomalies at Lake Rotomahana: Geological and hydrothermal implications. Journal of Volcanology and Geothermal Research, 2016, 314, 84-94.	2.1	33
20	Potentialâ€field modeling of collapseâ€prone submarine volcanoes in the southern Tyrrhenian Sea (Italy). Geophysical Research Letters, 2010, 37, .	4.0	31
21	Volcanism in slab tear faults is larger than in island-arcs and back-arcs. Nature Communications, 2017, 8, 1451.	12.8	31
22	Potential-field inversion for a layer with uneven thickness: The Tyrrhenian Sea density model. Physics of the Earth and Planetary Interiors, 2008, 166, 105-111.	1.9	29
23	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. Journal of Volcanology and Geothermal Research, 2016, 314, 57-83.	2.1	28
24	Interactions between volcanism and tectonics in the western Aeolian sector, southern Tyrrhenian Sea. Geophysical Journal International, 2010, 183, 64-78.	2.4	26
25	Highâ€resolution magnetics reveal the deep structure of a volcanicâ€arcâ€related basaltâ€hosted hydrothermal site (<scp>P</scp>alinuro, <scp>T</scp>yrrhenian <scp>S</scp>ea). Geochemistry, Geophysics, Geosystems, 2015, 16, 1950-1961.	2.5	26
26	Near-Bottom Magnetic Signatures of Submarine Hydrothermal Systems at Marsili and Palinuro Volcanoes, Southern Tyrrhenian Sea, Italy. Economic Geology, 2014, 109, 2119-2128.	3.8	24
27	Depth-to-the-bottom optimization for magnetic data inversion: Magnetic structure of the Latium volcanic region, Italy. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	23
28	Mapping of Seafloor Hydrothermally Altered Rocks Using Geophysical Methods: Marsili and Palinuro Seamounts, Southern Tyrrhenian Sea. Economic Geology, 2014, 109, 2103-2117.	3.8	22
29	Heat Flow and Nearâ€Seafloor Magnetic Anomalies Highlight Hydrothermal Circulation at Brothers Volcano Caldera, Southern Kermadec Arc, New Zealand. Geophysical Research Letters, 2019, 46, 8252-8260.	4.0	22
30	Geology, Hydrothermal Activity, and Sea-Floor Massive Sulfide Mineralization at the Rumble II West Mafic Caldera. Economic Geology, 2012, 107, 1649-1668.	3.8	21
31	A novel heat flux study of a geothermally active lake â€" Lake Rotomahana, New Zealand. Journal of Volcanology and Geothermal Research, 2016, 314, 95-109.	2.1	21
32	Interpreting magnetic data by integral moments. Geophysical Journal International, 2008, 174, 815-824.	2.4	19
33	The Pink and White Terraces of Lake Rotomahana: what was their fate after the 1886 Tarawera Rift eruption?. Journal of Volcanology and Geothermal Research, 2016, 314, 126-141.	2.1	18
34	Hydrothermal Venting at Hinepuia Submarine Volcano, Kermadec Arc: Understanding Magmaticâ€Hydrothermal Fluid Chemistry. Geochemistry, Geophysics, Geosystems, 2017, 18, 3646-3661.	2.5	18
35	Rapid interactive modeling of 3D magnetic anomalies. Computers and Geosciences, 2012, 48, 308-315.	4.2	15
36	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. Journal of Petrology, 2016, 57, 1335-1360.	2.8	15

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37	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 (Vitiaz) Arc. Gondwana Research, 2019, 72, 169-193.	6.0	15
38	Expedition 376 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	15
39	The New Zealand gravimetric quasigeoid model 2017 that incorporates nationwide airborne gravimetry. Journal of Geodesy, 2018, 92, 923-937.	3.6	13
40	The integrated history of repeated caldera formation and infill at the Okataina Volcanic Centre: Insights from 3D gravity and magnetic models. Journal of Volcanology and Geothermal Research, 2022, 427, 107555.	2.1	13
41	Gaussian envelope for 3D geomagnetic data inversion. Geophysics, 2003, 68, 996-1007.	2.6	11
42	Gsolve, a Python computer program with a graphical user interface to transform relative gravity survey measurements to absolute gravity values and gravity anomalies. SoftwareX, 2018, 7, 129-137.	2.6	11
43	A two million-year history of rifting and caldera volcanism imprinted in new gravity anomaly compilation of the TaupÂ•Volcanic Zone, New Zealand. New Zealand Journal of Geology, and Geophysics, 0, , 1-14.	1.8	11
44	Geophysical modeling of collapseâ€prone zones at Rumble III seamount, southern Pacific Ocean, New Zealand. Geochemistry, Geophysics, Geosystems, 2013, 14, 4667-4680.	2.5	10
45	Crustal magnetization and the subseafloor structure of the ASHES vent field, Axial Seamount, Juan de Fuca Ridge: Implications for the investigation of hydrothermal sites. Geophysical Research Letters, 2016, 43, 6205-6211.	4.0	10
46	The revised aeromagnetic anomaly map of Italy. Annals of Geophysics, 2009, 47, .	1.0	10
47	Title is missing!. Marine Geophysical Researches, 2002, 23, 353-365.	1.2	9
48	Marine Archaeogeophysical Prospection of Roman Salapia Settlement (Puglia, Italy): Detecting Ancient Harbour Remains. Archaeological Prospection, 2012, 19, 89-101.	2.2	9
49	Expedition 376 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	9
50	Gravity anomaly grids for the New Zealand region. New Zealand Journal of Geology, and Geophysics, 2017, 60, 381-391.	1.8	8
51	Where are the Pink and White Terraces of Lake Rotomahana?. Journal of the Royal Society of New Zealand, 2019, 49, 36-59.	1.9	8
52	Site U1528. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7
53	Magnetic-anomaly Fourier spectrum of a 3D Gaussian source. Geophysics, 2005, 70, L1-L5.	2.6	6
54	Site U1530. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5

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55	Site U1527. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
56	Petrophysical Facies and Inferences on Permeability at Brothers Volcano, Kermadec Arc, Using Downhole Images and Petrophysical Data. Economic Geology, 2023, 118, 1629-1655.	3.8	5
57	Tortonian-Pleistocenic oceanic features in the Southern Tyrrhenian Sea: magnetic inverse model of the Selli-Vavilov region. Marine Geophysical Researches, 2008, 29, 251-266.	1.2	4
58	Description of low-lying state structures with Skyrme interaction. Physics of Atomic Nuclei, 2009, 72, 1733-1737.	0.4	4
59	Basement Topography and Sediment Thickness Beneath Antarctica's Ross Ice Shelf. Geophysical Research Letters, 2022, 49, .	4.0	4
60	Semi-automatic determination of dips and depths of geologic contacts from magnetic data with application to the Turi Fault System, Taranaki Basin, New Zealand. Journal of Applied Geophysics, 2018, 150, 67-73.	2.1	3
61	Evaluating temporal stability of the New Zealand quasigeoid following the 2016 KaikÅura earthquake using satellite radar remote sensing. Geophysical Journal International, 2020, 220, 1917-1927.	2.4	3
62	New Zealand gravity reference stations 2020: history and development of the gravity network. New Zealand Journal of Geology, and Geophysics, 0, , 1-12.	1.8	3
63	Site U1529. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	3
64	Magnetic Expression of Hydrothermal Systems Hosted by Submarine Calderas in Subduction Settings: Examples from the Palinuro and Brothers Volcanoes. Geosciences (Switzerland), 2021, 11, 504.	2.2	3
65	A topographic surface reduction of aeromagnetic anomaly field over the Tyrrhenian sea area (Italy). Marine Geophysical Researches, 2003, 24, 265-277.	1.2	2
66	High-resolution marine magnetic surveys for searching underwater cultural resources. Annals of Geophysics, 2009, 49, .	1.0	2
67	Stable inverse deconvolution of magnetic data. Geophysical Journal International, 2005, 162, 725-735.	2.4	1
68	Inversion of magnetic and gravity data reveals subsurface igneous bodies in Northland, New Zealand. New Zealand Journal of Geology, and Geophysics, 2016, 59, 416-425.	1.8	1
69	Site U1531. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	1
70	Reply to the discussion. Geophysics, 2006, 71, X7-X10.	2.6	0
71	Looking inside the Panarea Island (Aeolian Archipelago, Italy) by gravity and magnetic data. Annals of Geophysics, 2009, 51, .	1.0	0
72	Environmental magneto-gradiometric marine survey in a highly anthropic noisy area. Annals of Geophysics, 2010, 52, .	1.0	0