

Francesco Mazzarini

List of Publications by Year in descending order

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108
papers

3,727
citations

101496

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h-index

155592

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112
all docs

112
docs citations

112
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "Unveiling ductile deformation during fast exhumation of a granitic pluton in a transfer zone" by Richard Spiess, Antonio Langone, Alfredo Caggianelli, Finlay M. Stuart, Martina Zucchi, Caterina Bianco, Andrea Brogi, & Domenico Liotta. <i>Journal of Structural Geology</i> , 2022, 155, 104499.	1.0	0
2	Emplacement of a felsic dyke swarm during progressive heterogeneous deformation, Eastern Elba Dyke Complex (Island of Elba, Italy). <i>Journal of Structural Geology</i> , 2022, 159, 104600.	1.0	4
3	Volcano dynamics vs tectonics on Mars: evidence from Pavonis Mons. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 410, 107148.	0.8	3
4	Equatorial grooves distribution on Ganymede: Length and self-similar clustering analysis. <i>Planetary and Space Science</i> , 2021, 195, 105140.	0.9	8
5	New Chronological Constraints from Hypogean Deposits for Late Pliocene to Recent Morphotectonic History of the Alpi Apuane (NW Tuscany, Italy). <i>Geosciences (Switzerland)</i> , 2021, 11, 65.	1.0	4
6	Syn-orogenic Exhumation of High-Pressure Units by Upward Extrusion in an Accretionary Wedge: Insights From the Eastern Elba Nappe Stack (Northern Apennines, Italy). <i>Tectonics</i> , 2021, 40, e2020TC006348.	1.3	21
7	Deformation history of a foredeep basin during the incorporation of its deposits within an advancing orogenic wedge: The case of the Oligocene-Early Miocene Macigno Costiero Formation, southern Tuscany, northern Apennines, Italy. <i>Journal of Structural Geology</i> , 2021, 147, 104347.	1.0	4
8	Vent distribution and structural inheritance in an embryonic rift: The example of the Chyulu Hills off-rift magmatic range (South Kenya). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 416, 107268.	0.8	4
9	Morphological and multivariate statistical analysis of quaternary monogenetic vents in the Central Anatolian Volcanic Province (Turkey): Implications for the volcano-tectonic evolution. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 416, 107280.	0.8	9
10	Geology of the Northern Apennines nappe stack on eastern Elba (Italy): new insights on the Neogene orogenic evolution of the Northern Tyrrhenian Sea. <i>Journal of Maps</i> , 2021, 17, 533-546.	1.0	6
11	Rheological and Mechanical Layering of the Crust Underneath Thumbprint Terrains in Arcadia Planitia, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	4
12	High-Pressure ($P < 1.5 - 1.8 \text{ GPa}$) blueschist from Elba: Implications for underthrusting and exhumation of continental units in the Northern Apennines. <i>Journal of Metamorphic Geology</i> , 2020, 38, 495-525.	1.6	15
13	Recent volcano-tectonic activity of the Ririba rift and the evolution of rifting in South Ethiopia. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 403, 106989.	0.8	12
14	Structural and lithological control on fluid circulation, dilation and ore mineralization (Rio Albano) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	14
15	Surface Expressions of Subsurface Sediment Mobilization Rooted into a Gas Hydrate-Rich Cryosphere on Mars. <i>Scientific Reports</i> , 2019, 9, 8603.	1.6	12
16	Aborted propagation of the Ethiopian rift caused by linkage with the Kenyan rift. <i>Nature Communications</i> , 2019, 10, 1309.	5.8	49
17	Fluids mobilization in Arabia Terra, Mars: Depth of pressurized reservoir from mounds self-similar clustering. <i>Icarus</i> , 2019, 321, 938-959.	1.1	22
18	Shallow submarine seep of abiotic methane from serpentinized peridotite off the Island of Elba, Italy. <i>Applied Geochemistry</i> , 2019, 100, 1-7.	1.4	19

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19	New Constraints on the Evolution of the Inner Northern Apennines by $^{40}\text{Ar}/^{39}\text{Ar}$ Dating of Late Miocene–Early Pliocene Compression on the Island of Elba, Italy. <i>Tectonics</i> , 2018, 37, 3229-3243.	1.3	41
20	Estimate of depths of source fluids related to mound fields on Mars. <i>Planetary and Space Science</i> , 2018, 164, 164-173.	0.9	13
21	Surface ruptures following the 30 October 2016 M_w 6.5 Norcia earthquake, central Italy. <i>Journal of Maps</i> , 2018, 14, 151-160.	1.0	121
22	Evolution of shear zones through the brittle-ductile transition: The Calamita Schists (Elba Island, Italy). <i>Tectonics</i> , 2017, 36, 1075-1090.	1.0	22
23	Coexistence of contractional and extensional tectonics during the northern Apennines orogeny: the late Miocene out-of-sequence thrust in the Elba Island nappe stack. <i>Geological Journal</i> , 2017, 52, 353-368.	0.6	23
24	Coseismic ruptures of the 24 August 2016, M_w 6.0 Amatrice earthquake (central Italy). <i>Tectonics</i> , 2017, 36, 1075-1090.	1.5	94
25	The Cotoncello Shear Zone (Elba Island, Italy): The deep root of a fossil oceanic detachment fault in the Ligurian ophiolites. <i>Lithos</i> , 2017, 278-281, 445-463.	0.6	17
26	Assessing future vent opening locations at the Somma–Vesuvio volcanic complex: 2. Probability maps of the caldera for a future Plinian/sub-Plinian event with uncertainty quantification. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4357-4376.	1.4	28
27	Brittle ice shell thickness of Enceladus from fracture distribution analysis. <i>Icarus</i> , 2017, 297, 252-264.	1.1	19
28	Heterogeneous brittle-ductile deformation at shallow crustal levels under high thermal conditions: The case of a synkinematic contact aureole in the inner northern Apennines, southeastern Elba Island, Italy. <i>Tectonophysics</i> , 2017, 717, 547-564.	0.9	29
29	Discovering geothermal supercritical fluids: a new frontier for seismic exploration. <i>Scientific Reports</i> , 2017, 7, 14592.	1.6	17
30	Seismic lines Offshore Mount Etna (SOME): open database. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	1
31	Volcanic field elongation, vent distribution, and tectonic evolution of a continental rift: The Main Ethiopian Rift example. <i>Tectonics</i> , 2016, 35, 706-720.		28
32	Lidar surveys reveal eruptive volumes and rates at Etna, 2007–2010. <i>Geophysical Research Letters</i> , 2016, 43, 4270-4278.	1.5	38
33	Coseismic effects of the 2016 Amatrice seismic sequence: first geological results. <i>Annals of Geophysics</i> , 2016, 59, .	0.5	37
34	The origin of along-rift variations in faulting and magmatism in the Ethiopian Rift. <i>Tectonics</i> , 2015, 34, 464-477.	1.3	65
35	The Zuccale Fault, Elba Island, Italy: A new perspective from fault architecture. <i>Tectonics</i> , 2015, 34, 1195-1218.	1.3	31
36	Self-similar clustering distribution of structural features on Ascræus Mons (Mars): implications for magma chamber depth. <i>Geological Society Special Publication</i> , 2015, 401, 203-218.	0.8	16

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37	Introduction: Anatomy of rifting: Tectonics and magmatism in continental rifts, oceanic spreading centers, and transforms. , 2015, 11, 1256-1261.		10
38	Spatial variability of volcanic features in early-stage rift settings: the case of the Tanzania Divergence, East African rift system. Terra Nova, 2014, 26, 461-468.	0.9	23
39	The Deep Structure of the Larderello-travale Geothermal Field (Italy) from Integrated, Passive Seismic Investigations. Energy Procedia, 2014, 59, 227-234.	1.8	11
40	The protracted development of focused magmatic intrusion during continental rifting. Tectonics, 2014, 33, 875-897.	1.3	47
41	Fluid transfer and vein thickness distribution in high and low temperature hydrothermal systems at shallow crustal level in southern Tuscany (Italy). Annals of Geophysics, 2014, 57, .	0.5	0
42	Spatial relationship between earthquakes and volcanic vents in the central-northern Main Ethiopian Rift. Journal of Volcanology and Geothermal Research, 2013, 262, 123-133.	0.8	41
43	The deformation offshore of Mount Etna as imaged by multichannel seismic reflection profiles. Journal of Volcanology and Geothermal Research, 2013, 251, 50-64.	0.8	29
44	2012 hyperspectral airborne campaign on Etna: Multi data acquisition for ASI-PRISMA project. , 2013, , .		1
45	Remotely triggered micro-earthquakes in the Larderello-Travale Geothermal Field (Italy) following the 2012 May 20, Mw 5.9 plain earthquake. Geophysical Research Letters, 2013, 40, 835-840.	1.5	9
46	The intimate relationship between strain and magmatism: A numerical treatment of clustered monogenetic fields in the Main Ethiopian Rift. Tectonics, 2013, 32, 49-64.	1.3	34
47	Interactions between low-angle normal faults and plutonism in the upper crust: Insights from the island of Elba, Italy: Comment. Bulletin of the Geological Society of America, 2012, 124, 1913-1915.	1.6	1
48	Morphometric analysis of lava flow units: Case study over LIDAR-derived topography at Mount Etna, Italy. Journal of Volcanology and Geothermal Research, 2012, 235-236, 11-22.	0.8	22
49	Holocene Beach Ridges and Coastal Evolution in the Cabo Raso Bay (Atlantic Patagonian Coast.) Tj ETQq1 1 0.784314 rgBT /Overlock 0.1 29		
50	Fault architecture in the Main Ethiopian Rift and comparison with experimental models: Implications for rift evolution and Nubia-Somalia kinematics. Earth and Planetary Science Letters, 2011, 301, 479-492.	1.8	108
51	Vein development during folding in the upper brittle crust: The case of tourmaline-rich veins of eastern Elba Island, northern Tyrrhenian Sea, Italy. Journal of Structural Geology, 2011, 33, 1509-1522.	1.0	38
52	U-Pb and ⁴⁰ Ar/ ³⁹ Ar geochronology of Palaeozoic units in the northern Apennines: determining protolith age and alpine evolution using the Calamita Schist and Ortano Porphyroid. Geological Journal, 2011, 46, 288-310.	0.6	41
53	Structural analysis of the eruptive fissures at Mount Etna (Italy). Annals of Geophysics, 2011, 54, .	0.5	37
54	The distal segment of Etna's 2001 basaltic lava flow. Bulletin of Volcanology, 2010, 72, 119-127.	1.1	29

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55	Mud volcanoes as potential indicators of regional stress and pressurized layer depth. <i>Tectonophysics</i> , 2010, 494, 32-47.	0.9	45
56	Introduction: LASI III "Magma pulses and sheets in tabular intrusions. , 2010, 6, 161-162.		4
57	Monogenetic vent self-similar clustering in extending continental crust: Examples from the East African Rift System. , 2010, 6, 567-582.		34
58	Fluid circulation in the upper brittle crust: Thickness distribution, hydraulic transmissivity fluid inclusion and isotopic data of veins hosted in the Oligocene sandstones of the Macigno Formation in southern Tuscany, Italy. <i>Tectonophysics</i> , 2010, 493, 118-138.	0.9	17
59	Evolution of an active lava flow field using a multitemporal LIDAR acquisition. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	92
60	Relations between deformation and upper crustal magma emplacement in laboratory physical models. <i>Tectonophysics</i> , 2010, 484, 139-146.	0.9	28
61	Self-similar clustering of cinder cones and crust thickness in the Michoacan "Guanajuato and Sierra de Chichinautzin volcanic fields, Trans-Mexican Volcanic Belt. <i>Tectonophysics</i> , 2010, 486, 55-64.	0.9	52
62	A LiDAR survey of Stromboli volcano (Italy): Digital elevation model-based geomorphology and intensity analysis. <i>International Journal of Remote Sensing</i> , 2010, 31, 3177-3194.	1.3	24
63	Morphometry of scoria cones located on a volcano flank: A case study from Mt. Etna (Italy), based on high-resolution LiDAR data. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 186, 320-330.	0.8	109
64	A structural and geophysical approach to the study of fractured aquifers in the Scansano-Magliano in Toscana Ridge, southern Tuscany, Italy. <i>Hydrogeology Journal</i> , 2009, 17, 1233-1246.	0.9	31
65	Construction dynamics of a lava channel. <i>Bulletin of Volcanology</i> , 2009, 71, 459-474.	1.1	42
66	Spectral properties of volcanic materials from hyperspectral field and satellite data compared with LiDAR data at Mt. Etna. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2009, 11, 142-155.	1.4	36
67	Topographic control on lava flow paths at Mount Etna, Italy: Implications for hazard assessment. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
68	Seismic and landslide source of the 1908 Straits of Messina tsunami (Sicily, Italy). <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	44
69	Messinian-Early Pliocene crustal shortening along the Tyrrhenian margin of Tuscany, Italy. <i>Bollettino Della Societ� Geologica Italiana</i> , 2009, , 593-604.	2.0	3
70	TINITALY/01: a new Triangular Irregular Network of Italy. <i>Annals of Geophysics</i> , 2009, 50, .	0.5	56
71	Landsat 5 TM images and DEM in lithologic mapping of Payen Volcanic Field (Mendoza Province,) Tj ETQq1 1 0.784314 rgBT /Overloc	0.2	1
72	Surface roughness of pyroclastic deposits at Mt. Etna by 3D laser scanning. <i>Annals of Geophysics</i> , 2009, 51, .	0.5	1

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73	Multiple hydrofracturing by boron-rich fluids in the Late Miocene contact aureole of eastern Elba Island (Tuscany, Italy). <i>Terra Nova</i> , 2008, 20, 318-326.	0.9	46
74	Fissural volcanism, polygenetic volcanic fields, and crustal thickness in the Payen Volcanic Complex on the central Andes foreland (Mendoza, Argentina). <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	21
75	The Vegetation Resilience After Fire (VRAF) index: Development, implementation and an illustration from central Italy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 312-329.	1.4	32
76	The changing face of Mount Etna's summit area documented with Lidar technology. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	79
77	Hydrofracturing-related sill and dyke emplacement at shallow crustal levels: the Eastern Elba Dyke Complex, Italy. <i>Geological Society Special Publication</i> , 2008, 302, 121-129.	0.8	11
78	Pliocene crustal shortening on the Tyrrhenian side of the northern Apennines: evidence from the Gavorrano antiform (southern Tuscany, Italy). <i>Journal of the Geological Society</i> , 2008, 165, 105-114.	0.9	22
79	Detection of Ground Control Points using the SITOGEOGIS tool to orthorectify Landsat 7 ETM + images. <i>European Journal of Remote Sensing</i> , 2008, , 55-63.	0.2	3
80	Vent distribution and crustal thickness in stretched continental crust: The case of the Afar Depression (Ethiopia). , 2007, 3, 152.		49
81	Lava flow identification and aging by means of lidar intensity: Mount Etna case. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
82	Best-fit results from application of a thermo-rheological model for channelized lava flow to high spatial resolution morphological data. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	33
83	Hydraulic connection and fluid overpressure in upper crustal rocks: Evidence from the geometry and spatial distribution of veins at Botrona quarry, southern Tuscany, Italy. <i>Journal of Structural Geology</i> , 2007, 29, 1386-1399.	1.0	26
84	Large submarine landslides offshore Mt. Etna. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	39
85	Interaction between normal faults and pre-existing thrust systems in analogue models. <i>Geological Society Special Publication</i> , 2006, 253, 65-78.	0.8	9
86	Active strike-slip faulting in El Salvador, Central America. <i>Geology</i> , 2005, 33, 989.	2.0	68
87	Magma emplacement in a thrust ramp anticline: The Gavorrano Granite (northern Apennines, Italy). <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	44
88	Evolution of the Main Ethiopian Rift in the frame of Afar and Kenya rifts propagation. <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	193
89	A rapid method to assess fire-related debris flow hazard in the Mediterranean region: An example from Sicily (southern Italy). <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2005, 7, 217-231.	1.4	23
90	Morphology of basaltic lava channels during the Mt. Etna September 2004 eruption from airborne laser altimeter data. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	67

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91	Tectonic control on laccolith emplacement in the northern Apennines fold-thrust belt: the Gavorrano intrusion (southern Tuscany, Italy). Geological Society Special Publication, 2004, 234, 151-161.	0.8	5
92	Strain rate and bimodal volcanism in the continental rift: Debre Zeyt volcanic field, northern MER, Ethiopia. Journal of African Earth Sciences, 2004, 39, 415-420.	0.9	31
93	Volcanic vent self-similar clustering and crustal thickness in the northern Main Ethiopian Rift. Geophysical Research Letters, 2004, 31, .	1.5	32
94	Role of local wind circulation in plume monitoring at Mt. Etna volcano (Sicily): Insights from a mesoscale numerical model. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	24
95	Spatial distribution of cones and satellite-detected lineaments in the Pali Aike Volcanic Field (southernmost Patagonia): insights into the tectonic setting of a Neogene rift system. Journal of Volcanology and Geothermal Research, 2003, 125, 291-305.	0.8	77
96	Magma-induced strain localization in centrifuge models of transfer zones. Tectonophysics, 2002, 348, 205-218.	0.9	43
97	Dynamics of magma emplacement in centrifuge models of continental extension with implications for flank volcanism. Tectonics, 2001, 20, 1053-1065.	1.3	46
98	Flank Cones at Mount Etna Volcano: Do they have a power-law distribution?. Bulletin of Volcanology, 2001, 62, 420-430.	1.1	31
99	Slab window-related magmatism from southernmost South America: the Late Miocene mafic volcanics from the Estancia Glencross Area (34°52'S, Argentina-Chile). Lithos, 2001, 57, 67-89.	0.6	111
100	The Pali Aike Volcanic Field, Patagonia: slab-window magmatism near the tip of South America. Tectonophysics, 2000, 321, 407-427.	0.9	140
101	The DEM of Mt. Etna: geomorphological and structural implications. Geodinamica Acta, 1999, 12, 279-290.	2.2	26
102	Rock-type discrimination by field, TM and SPOT data, Tarn Flat, Antarctica. International Journal of Remote Sensing, 1999, 20, 403-420.	1.3	2
103	The DEM of Mt. Etna: Geomorphological and structural implications. Geodinamica Acta, 1999, 12, 279-290.	2.2	42
104	The Yerer-Tullu Wellel volcanotectonic lineament: a transtensional structure in central Ethiopia and the associated magmatic activity. Journal of African Earth Sciences, 1998, 26, 135-150.	0.9	100
105	Cenozoic geodynamics of the Ross Sea region, Antarctica: Crustal extension, intraplate strike-slip faulting, and tectonic inheritance. Journal of Geophysical Research, 1997, 102, 24669-24696.	3.3	161
106	Rock mapping of glaciated areas by satellite image processing. Polar Research, 1994, 13, 23-33.	1.6	1
107	Rock mapping of glaciated areas by satellite image processing. Polar Research, 1994, 13, 23-33.	1.6	1
108	AlpArray-Italy: Site description and noise characterization. Advances in Geosciences, 0, 43, 39-52.	12.0	8