

Giovanni Barreca

List of Publications by Year in descending order

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52
papers

865
citations

430874

18
h-index

526287

27
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59
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59
docs citations

59
times ranked

783
citing authors

#	ARTICLE	IF	CITATIONS
1	Tectonic expression of an active slab tear from high-resolution seismic and bathymetric data offshore Sicily (Ionian Sea). <i>Tectonics</i> , 2016, 35, 39-54.	2.8	82
2	A pilot GIS database of active faults of Mt. Etna (Sicily): A tool for integrated hazard evaluation. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 170-186.	2.1	49
3	Evidence of the Zanclean megaflood in the eastern Mediterranean Basin. <i>Scientific Reports</i> , 2018, 8, 1078.	3.3	49
4	Slab narrowing in the Central Mediterranean: the Calabro-Ionian subduction zone as imaged by high resolution seismic tomography. <i>Scientific Reports</i> , 2018, 8, 5178.	3.3	45
5	New insights in the geodynamics of the Lipari-Vulcano area (Aeolian Archipelago, southern Italy) from geological, geodetic and seismological data. <i>Journal of Geodynamics</i> , 2014, 82, 150-167.	1.6	42
6	Geodetic and geological evidence of active tectonics in south-western Sicily (Italy). <i>Journal of Geodynamics</i> , 2014, 82, 138-149.	1.6	35
7	New structural and seismological evidence and interpretation of a lithospheric-scale shear zone at the southern edge of the Ionian subduction system (central-eastern Sicily, Italy). <i>Tectonics</i> , 2016, 35, 1489-1505.	2.8	35
8	Geological, seismological and geodetic evidence of active thrusting and folding south of Mt. Etna (eastern Sicily): Reevaluation of seismic efficiency of the Sicilian Basal Thrust. <i>Journal of Geodynamics</i> , 2015, 90, 32-41.	1.6	31
9	Fault pattern and seismotectonic potential at the south-western edge of the Ionian Subduction system (southern Italy): New field and geophysical constraints. <i>Tectonophysics</i> , 2019, 761, 31-45.	2.2	30
10	Origin of Saponite-Rich Clays in A Fossil Serpentinite-Hosted Hydrothermal System in The Crustal Basement of The Hyblean Plateau (Sicily, Italy). <i>Clays and Clay Minerals</i> , 2012, 60, 18-31.	1.3	29
11	Active faulting and continental slope instability in the Gulf of Patti (Tyrrhenian side of NE Sicily). <i>Tectonophysics</i> , 2019, 761, 31-45.	2.2	30
12	Three-Dimensional Modeling of Mount Etna Volcano: Volume Assessment, Trend of Eruption Rates, and Geodynamic Significance. <i>Tectonics</i> , 2018, 37, 842-857.	2.8	25
13	The Strait of Messina: Seismotectonics and the source of the 1908 earthquake. <i>Earth-Science Reviews</i> , 2021, 218, 103685.	9.1	23
14	Slab Detachment, Mantle Flow, and Crustal Collision in Eastern Sicily (Southern Italy): Implications on Mount Etna Volcanism. <i>Tectonics</i> , 2020, 39, e2020TC006188.	2.8	21
15	Restraining stepover deformation superimposed on a previous fold-and-thrust-belt: A case study from the Mt. Kumeta-Rocca Busambra ridges (western Sicily, Italy). <i>Journal of Geodynamics</i> , 2012, 55, 1-17.	1.6	20
16	Fault reactivation by stress pattern reorganization in the Hyblean foreland domain of SE Sicily (Italy) and seismotectonic implications. <i>Tectonophysics</i> , 2015, 661, 215-228.	2.2	20
17	Applying geophysical techniques to investigate a segment of a creeping fault in the urban area of San Gregorio di Catania, southern flank of Mt. Etna (Sicily - Italy). <i>Journal of Applied Geophysics</i> , 2015, 123, 153-163.	2.1	20
18	Multi-temporal tectonic evolution of Capo Granitola and Sciacca foreland transcurrent faults (Sicily). <i>Tectonophysics</i> , 2019, 761, 31-45.	2.2	19

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19	Geological and geophysical evidences for mud diapirism in south-eastern Sicily (Italy) and geodynamic implications. <i>Journal of Geodynamics</i> , 2014, 82, 168-177.	1.6	18
20	Structural and tectono-stratigraphic review of the Sicilian orogen and new insights from analogue modeling. <i>Earth-Science Reviews</i> , 2020, 208, 103257.	9.1	18
21	Structural architecture and active deformation pattern in the northern sector of the Aeolian-Tindari-Letojanni fault system (SE Tyrrhenian Sea-NE Sicily) from integrated analysis of field, marine geophysical, seismological and geodetic data. <i>Italian Journal of Geosciences</i> , 2017, 136, 399-417.	0.8	17
22	Fold-related deformation bands in a weakly buried sandstone reservoir analogue: A multi-disciplinary case study from the Numidian (Miocene) of Sicily (Italy). <i>Journal of Structural Geology</i> , 2019, 118, 150-164.	2.3	16
23	Regional Deformation and Offshore Crustal Local Faulting as Combined Processes to Explain Uplift Through Time Constrained by Investigating Differentially Uplifted Late Quaternary Paleoshorelines: The Foreland Hyblean Plateau, SE Sicily. <i>Tectonics</i> , 2020, 39, e2020TC006187.	2.8	15
24	Deformation Pattern of the Northern Sector of the Malta Escarpment (Offshore SE Sicily, Italy): Fault Dimension, Slip Prediction, and Seismotectonic Implications. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	15
25	Active Tectonics along the South East Offshore Margin of Mt. Etna: New Insights from High-Resolution Seismic Profiles. <i>Geosciences (Switzerland)</i> , 2018, 8, 62.	2.2	14
26	Earthquake Rupture Forecasts for the MPS19 Seismic Hazard Model of Italy. <i>Annals of Geophysics</i> , 2021, 64, .	1.0	13
27	Active degassing across the Maltese Islands (Mediterranean Sea) and implications for its neotectonics. <i>Marine and Petroleum Geology</i> , 2019, 104, 361-374.	3.3	12
28	Quaternary marine terraces and fault activity in the northern mainland sectors of the Messina Strait (southern Italy). <i>Italian Journal of Geosciences</i> , 2017, 136, 337-346.	0.8	11
29	Recent Activity and Kinematics of the Bounding Faults of the Catanzaro Trough (Central Calabria), Tj ETQq1 1 0.784314 rgBT ₁₁ /Overlook	2.2	11
30	The seismogenic source of the 2018 December 26th earthquake (Mt. Etna, Italy): A shear zone in the unstable eastern flank of the volcano. <i>Journal of Geodynamics</i> , 2021, 143, 101807.	1.6	10
31	Archaeological evidence for Roman-age faulting in central-northern Sicily: Possible effects of coseismic deformation. , 2010, , .		9
32	Vertical-axis rotations in the Sicilian fold and thrust belt: new structural constraints from the Madonie Mts. (Sicily, Italy). <i>Italian Journal of Geosciences</i> , 2013, 132, 407-421.	0.8	8
33	Deep Origin of the Dome-shaped Hyblean Plateau, Southeastern Sicily: A New Tectono-magmatic Model. <i>Tectonics</i> , 2019, 38, 4488-4515.	2.8	8
34	An integrated geodetic and InSAR technique for the monitoring and detection of active faulting in southwestern Sicily. <i>Annals of Geophysics</i> , 2020, 63, .	1.0	8
35	Transtension at the Northern Termination of the Alfeo-Etna Fault System (Western Ionian Sea, Italy): Seismotectonic Implications and Relation with Mt. Etna Volcanism. <i>Geosciences (Switzerland)</i> , 2022, 12, 128.	2.2	7
36	A New Agent-Based Methodology for the Seismic Vulnerability Assessment of Urban Areas. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 274.	2.9	6

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37	Assessing the rate of crustal extension by 2D sequential restoration analysis: A case study from the active portion of the Malta Escarpment. <i>Basin Research</i> , 2022, 34, 321-341.	2.7	6
38	The enigmatic 1693 AD tsunami in the eastern Mediterranean Sea: new insights on the triggering mechanisms and propagation dynamics. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
39	Geometry of the Deep Calabrian Subduction (Central Mediterranean Sea) From Wide-Angle Seismic Data and 3D Gravity Modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, .	2.5	5
40	Fiber optic monitoring of active faults at the seafloor: I the FOCUS project. <i>Photoniques</i> , 2019, , 32-37.	0.1	5
41	New insights on the tectonics of the Lampedusa Plateau from the integration of offshore, onland and space geodetic data. <i>Italian Journal of Geosciences</i> , 2017, 136, 206-219.	0.8	5
42	Reply to Comment by A. Argnani on "Geometry of the Deep Calabrian Subduction From Wide-Angle Seismic Data and 3D Gravity Modeling": <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009223.	2.5	4
43	Tectonic evolution of the Northern Sicilian-Southern Palermo Mountains range in Western Sicily: insight on the exhumation of the thrust involved foreland domains. <i>Italian Journal of Geosciences</i> , 2010, , 429-440.	0.8	4
44	Gravimetric gradient, Sicily and southern Calabria, Italy (Central Mediterranean). <i>Journal of Maps</i> , 2014, 10, 563-568.	2.0	2
45	Geological " structural outlines of the southern Madonie Mts. (Central northern Sicily). <i>Journal of Maps</i> , 2015, 11, 432-443.	2.0	2
46	Foreland seismicity associated with strike-slip faulting in southeastern Sicily, Italy: Seismotectonic implications and seismic hazard assessment. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 307, 106553.	1.9	1
47	From ductile to brittle tectonic evolution of the Aspromonte Massif. <i>Geological Field Trips</i> , 2017, 9, 1-66.	0.5	1
48	Reply to: Comment on the paper by Barreca et al.: "The Strait of Messina: Seismotectonics and the source of the 1908 earthquake" by G. Barreca, F. Gross, L. Scarf, M. Aloisi, C. Monaco, S. Krastel (<i>Earth-Science Reviews</i> 218, 2021, 103685). <i>Earth-Science Reviews</i> , 2021, 223, 103866.	9.1	1
49	Present-Day Surface Deformation of Sicily Derived From Sentinel-1 InSAR Time Series. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	1
50	Use of CORS Time Series for Geodynamics Applications in Western Sicily (Italy). <i>Communications in Computer and Information Science</i> , 2020, , 61-76.	0.5	0
51	Reply to: Comment by A. Argnani on the paper: "The Strait of Messina: Seismotectonics and the source of the 1908 earthquake" (<i>Earth-Science Reviews</i> 218, 2021, 103,685). <i>Earth-Science Reviews</i> , 2022, , 103962.	9.1	0
52	Response: Commentary: Deformation Pattern of the Northern Sector of the Malta Escarpment (Offshore SE Sicily, Italy): Fault Dimension, Slip Prediction, and Seismotectonic Implications. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	0