Michele Zucali

List of Publications by Year
in descending order

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52	950	430874	501196
papers	citations	18	28
		h-index	g-index

57	57	57	667
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The tectonometamorphic evolution of the Sesiaâ€“Dent Blanche nappes (internal Western Alps): review and synthesis. Swiss Journal of Geosciences, 2014, 107, 309-336.	1.2	91
2	Multiple Metamorphic Stages within an Eclogite-facies Terrane (Sesia Zone, Western Alps) Revealed by Thâ€“Uâ€“Pb Petrochronology. Journal of Petrology, 2014, 55, 1429-1456.	2.8	76
3	The transition from Variscan collision to continental break-up in the Alps: insights from the comparison between natural data and numerical model predictions. Geological Society Special Publication, 2014, 405, 363-400.	1.3	47
4	Prograde lawsonite during the flow of continental crust in the Alpine subduction: Strain vs. metamorphism partitioning, a field-analysis approach to infer tectonometamorphic evolutions (Sesia-Lanzo Zone, Western Italian Alps). Journal of Structural Geology, 2011, 33, 381-398.	2.3	43
5	A critical assessment of the tectono-thermal memory of rocks and definition of tectono-metamorphic units: evidence from fabric and degree of metamorphic transformations. Geological Society Special Publication, 2005, 243, 227-247.	1.3	40
6	From Permo-Triassic lithospheric thinning to Jurassic rifting at the Adriatic margin: Petrological and geochronological record in Valtournenche (Western Italian Alps). Lithos, 2012, 146-147, 276-292.	1.4	38
7	The interaction of deformation and metamorphic reactions. Geological Society Special Publication, 2010, 332, 189-223.	1.3	36
8	The pre-Alpine tectonic history of the Austroalpine continental basement in the Valpelline unit (Western Italian Alps). Geological Magazine, 2013, 150, 153-172.	1.5	35
9	Formation and evolution of a subduction-related mÃ©lange: The example of the Rocca Canavese Thrust Sheets (Western Alps). Bulletin of the Geological Society of America, 2020, 132, 884-896.	3.3	29
10	Analysis of natural tectonic systems coupled with numerical modelling of the polycyclic continental lithosphere of the Alps. International Geology Review, 2010, 52, 1268-1302.	2.1	28
11	Geometry and kinematics of the Roisan-Cignana Shear Zone, and the orogenic evolution of the Dent Blanche Tectonic System (Western Alps). Swiss Journal of Geosciences, 2014, 107, 23-47.	1.2	26
12	Permian magmatism and metamorphism in the Dent Blanche nappe: constraints from field observations and geochronology. Swiss Journal of Geosciences, 2018, 111, 79-97.	1.2	24
13	Structural and metamorphic evolution during tectonic mixing: is the Rocca Canavese Thrust Sheet (Italian Western Alps) a subduction-related mÃ©lange?. Italian Journal of Geosciences, 2018, 137, 311-329.	0.8	22
14	Three-dimensional evaluation of fabric evolution and metamorphic reaction progress in polycyclic and polymetamorphic terrains: a case from the Central Italian Alps. Geological Society Special Publication, 2010, 332, 173-187.	1.3	21
15	The 3D quantitative lattice and shape preferred orientation of a mylonitised metagranite from Monte Rosa (Western Alps): Combining neutron diffraction texture analysis and synchrotron X-ray microtomography. Journal of Structural Geology, 2014, 63, 91-105.	2.3	21
16	Recent structural evolution of Forni Glacier tongue (Ortles-Cevedale Group, Central Italian Alps). Journal of Maps, 2017, 13, 870-878.	2.0	21
17	Deciphering the geologic memory of a Permian conglomerate of the Southern Alps by pebble Pâ€“T estimates. International Journal of Earth Sciences, 2009, 98, 203-226.	1.8	19
18	Micromechanics of intergranular cracking due to anisotropic thermal expansion in calcite marbles. Engineering Fracture Mechanics, 2014, 130, 42-52.	4.3	18

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19	Pre-Alpine contrasting tectono-metamorphic evolutions within the Southern Steep Belt, Central Alps. Lithos, 2018, 310-311, 31-49.	1.4	18
20	Prograde LWS-KY Transition During Subduction Of The Alpine Continental Crust Of The Sesia-Lanzo Zone: The Ivozio Complex. Journal of the Virtual Explorer, 0, 16, .	0.0	18
21	Coronitic microstructures in patchy eclogitised continentaÂl crust: the Lago della Vecchia pre-Alpine metagranite (Sesia-Lanzo Zone, Western Italian Alps). Journal of the Virtual Explorer, 0, 38, .	0.0	18
22	The Cotoncello Shear Zone (Elba Island, Italy): The deep root of a fossil oceanic detachment fault in the Ligurian ophiolites. Lithos, 2017, 278-281, 445-463.	1.4	17
23	Geoheritage and sport climbing activities: using the Montestrutto cliff (Austroalpine domain,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Geosciences, 2014, 133, 187-199.	0.8	16
24	Analysis of fabric evolution and metamorphic reaction progress at Lago della Vecchia-Valle dâ€™Irogna, Sesia-Lanzo Zone, Western Alps. Journal of Maps, 2017, 13, 521-533.	2.0	16
25	Variscan eclogites from the Argenteraâ€“Mercantour Massif (External Crystalline Massifs, SW Alps): a dismembered cryptic suture zone. International Journal of Earth Sciences, 2020, 109, 1273-1294.	1.8	16
26	Quantitative texture analysis of glaucophanite deformed under eclogite facies conditions (Sesia-Lanzo Zone, Western Alps): comparison between X-ray and neutron diffraction analysis. Geological Society Special Publication, 2002, 200, 239-253.	1.3	15
27	Integrating X-Ray Computed Tomography With Chemical Imaging to Quantify Mineral Re-crystallization From Granulite to Eclogite Metamorphism in the Western Italian Alps (Sesia-Lanzo Zone). Frontiers in Earth Science, 2019, 7, .	1.8	15
28	Tectono-metamorphic map of the Mont Morion Permian metaintrusives (Mont Morionâ€”Mont) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 2011, 7, 519-535.	2.0	14
29	Structural analysis of a subduction-related contact in southern Sesia-Lanzo Zone (Austroalpine) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	14
30	3D reconstruction of fabric and metamorphic domains in a slice of continental crust involved in the Alpine subduction system: the example of Mt. Mucrone (Sesiaâ€“Lanzo Zone, Western Alps). International Journal of Earth Sciences, 2020, 109, 1337-1354.	1.8	14
31	Microstructural evolution and texture analysis of magnesium phosphate cement. Journal of the American Ceramic Society, 2020, 103, 1414-1424.	3.8	12
32	Tectonometamorphic evolution of the Lago della Vecchia metaintrusive and its country rocks, Sesia-Lanzo Zone, Western Alps. Italian Journal of Geosciences, 2018, 137, 188-207.	0.8	12
33	Quantitative 3D microstructural analysis of naturally deformed amphibolite from the Southern Alps (Italy): microstructures, CPO and seismic anisotropy from a fossil extensional margin. Geological Society Special Publication, 2015, 409, 201-222.	1.3	11
34	Earth sciences on the field: educational applications for the comprehension of landscape evolution. Rendiconti Online Societa Geologica Italiana, 0, 40, 56-66.	0.3	10
35	Brittle plus plastic deformation of gypsum aggregates experimentally deformed in torsion to high strains: quantitative microstructural and texture analysis from optical and diffraction data. Geological Society Special Publication, 2010, 332, 79-98.	1.3	7
36	Blueschist mylonitic zones accommodating syn-subduction exhumation of deeply buried continental crust: the example of the Rocca Canavese Thrust Sheets Unit (Sesiaâ€“Lanzo Zone, Italian Western Alps). Swiss Journal of Geosciences, 2021, 114, .	1.2	7

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37	Urban geoheritage as a resource for Earth Sciences education: examples from Milan metropolitan area. Rendiconti Online Societa Geologica Italiana, 0, 45, 83-88.	0.3	7
38	Plastic deformations in kyanites by tectonometamorphic processes: a single-crystal X-ray diffraction study. Mineralogical Magazine, 2009, 73, 359-371.	1.4	6
39	Structural and geomorphological map of the Passo San Marco â€“ Pizzo di Trona area (Western Orobic) Tj ETQq1 1 0.784314 rgBT /Ove	2.0	6
40	Submarine lava flow direction revealed by neutron diffraction analysis in mineral lattice orientation. Geochemistry, Geophysics, Geosystems, 2014, 15, 765-780.	2.5	5
41	Deciphering the tectonic-geodynamic context of the gem-quality â€œnoble serpentineâ€•deposit formation combining microstructural, chemical and micro-Raman analyses in Palaeozoic olivine-bearing marbles and serpentine-hosting rocks (Pizzo Tremogge, Margna unit â€“ Austroalpine, Val Malenco â€“ Central) Tj ETQq1 1 0.784314 rgBT /Ove	2.7	5
42	Crystallographic and Seismic Anisotropies of Calcite at Different Depths: A Study Using Quantitative Texture Analysis by Neutron Diffraction. Minerals (Basel, Switzerland), 2020, 10, 26.	2.0	5
43	Quantitative X-ray Maps Analaysis of Composition and Microstructure of Permian High-Temperature Relicts in Acidic Rocks from the Sesia-Lanzo Zone Eclogitic Continental Crust, Western Alps. Minerals (Basel, Switzerland), 2021, 11, 1421.	2.0	5
44	The grid-work texture of authigenic microcrystalline quartz in siliceous crust-type (SCT) mineralized horizons. American Mineralogist, 2002, 87, 1128-1138.	1.9	4
45	The Chrysoberyl- and Phosphate-Bearing Albite Pegmatite of Malga Garbella, Val Di Rabbi, Trento Province, Italy. Canadian Mineralogist, 2018, 56, 411-424.	1.0	4
46	ArcStereoNet: A New ArcGISÂ® Toolbox for Projection and Analysis of Meso- and Micro-Structural Data. ISPRS International Journal of Geo-Information, 2021, 10, 50.	2.9	4
47	Multiscalar structural study of the ultramafic rocks of the Antrona Ophiolite (Pennine Alps). Journal of the Virtual Explorer, 0, 41, .	0.0	4
48	Strain partitioning in host rock controls light rare earth element release from allanite-(Ce) in subduction zones. Mineralogical Magazine, 2020, 84, 93-108.	1.4	3
49	Thermal degradation in Carrara marbles as the cause of deformation of cladding slabs. Frattura Ed Integrita Strutturale, 2014, 8, 145-152.	0.9	2
50	Evaluation of Deformation Temperatures in Carbonate Mylonites at Low Temperature Thrust-Tectonic Settings via Micro-Raman Spectroscopy. Minerals (Basel, Switzerland), 2020, 10, 1068.	2.0	2
51	3D geological modelling and education: teaching geological cross sections with a 3D modelling software to improve spatial thinking skills in geoscience students. Rendiconti Online Societa Geologica Italiana, 0, 30, 5-11.	0.3	2
52	Structural mapping in the Mediterranean: bridging laboratory to lithosphere. Journal of Maps, 2015, 11, 11-12.	2.0	1