

Marco Scambelluri

List of Publications by Year in descending order

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papers

4,905
citations

66343

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docs citations

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times ranked

2466
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#	ARTICLE	IF	CITATIONS
1	Deep fluids in subduction zones. <i>Lithos</i> , 2001, 55, 213-227.	1.4	382
2	The fate of B, Cl and Li in the subducted oceanic mantle and in the antigorite breakdown fluids. <i>Earth and Planetary Science Letters</i> , 2004, 222, 217-234.	4.4	260
3	The importance of serpentinite mylonites for subduction and exhumation of oceanic crust. <i>Tectonophysics</i> , 2000, 327, 225-238.	2.2	206
4	High abundances of noble gas and chlorine delivered to the mantle by serpentinite subduction. <i>Nature Geoscience</i> , 2011, 4, 807-812.	12.9	201
5	Dehydration of subducting serpentinite: Implications for halogen mobility in subduction zones and the deep halogen cycle. <i>Earth and Planetary Science Letters</i> , 2011, 308, 65-76.	4.4	176
6	Serpentinite Subduction: Implications for Fluid Processes and Trace-Element Recycling. <i>International Geology Review</i> , 2004, 46, 595-613.	2.1	175
7	Subduction of water into the mantle: History of an Alpine peridotite. <i>Geology</i> , 1995, 23, 459.	4.4	172
8	Fluid escape from subduction zones controlled by channel-forming reactive porosity. <i>Nature Geoscience</i> , 2017, 10, 150-156.	12.9	167
9	Incompatible element-rich fluids released by antigorite breakdown in deeply subducted mantle. <i>Earth and Planetary Science Letters</i> , 2001, 192, 457-470.	4.4	152
10	Ophiolite mélange zone records exhumation in a fossil subduction channel. <i>Geology</i> , 2007, 35, 499.	4.4	142
11	Boron isotope evidence for shallow fluid transfer across subduction zones by serpentinitized mantle. <i>Geology</i> , 2012, 40, 907-910.	4.4	142
12	Subduction zone fluxes of halogens and noble gases in seafloor and forearc serpentinites. <i>Earth and Planetary Science Letters</i> , 2013, 365, 86-96.	4.4	137
13	Majoritic garnets monitor deep subduction fluid flow and mantle dynamics. <i>Geology</i> , 2008, 36, 59.	4.4	131
14	Polyphase inclusions in garnet-orthopyroxenite (Dabie Shan, China) as monitors for metasomatism and fluid-related trace element transfer in subduction zone peridotite. <i>Earth and Planetary Science Letters</i> , 2006, 249, 173-187.	4.4	127
15	Melt- versus fluid-induced metasomatism in spinel to garnet wedge peridotites (Uiten Zone, Eastern Tj ETQq1 1 0.784314 rgBT /Overlo 2006, 151, 372-394.	3.1	125
16	Chlorine cycling during subduction of altered oceanic crust. <i>Earth and Planetary Science Letters</i> , 1998, 161, 33-44.	4.4	120
17	Chlorine isotopic composition in seafloor serpentinites and high-pressure metaperidotites. Insights into oceanic serpentinitization and subduction processes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 126-139.	3.9	97
18	Carbonation of subduction-zone serpentinite (high-pressure ophicarbonate; Ligurian Western Alps) and implications for the deep carbon cycling. <i>Earth and Planetary Science Letters</i> , 2016, 441, 155-166.	4.4	96

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19	Petrology and Trace Element Budgets of High-pressure Peridotites Indicate Subduction Dehydration of Serpentinized Mantle (Cima di Gagnone, Central Alps, Switzerland). <i>Journal of Petrology</i> , 2014, 55, 459-498.	2.8	90
20	Fluid-related inclusions in Alpine high-pressure peridotite reveal trace element recycling during subduction-zone dehydration of serpentinized mantle (Cima di Gagnone, Swiss Alps). <i>Earth and Planetary Science Letters</i> , 2015, 429, 45-59.	4.4	90
21	U-Pb dating of magmatic zircon and metamorphic baddeleyite in the Ligurian eclogites (Voltri Massif.) <i>Tj ETQq1 1 0,784314 rgBT /Ov</i>	3.1	87
22	Fluid/mineral interaction in UHP garnet peridotite. <i>Lithos</i> , 2009, 107, 38-52.	1.4	87
23	³⁹ Ar/ ⁴⁰ Ar dating of high-pressure rocks from the Ligurian Alps: Evidence for a continuous subduction-exhumation cycle. <i>Earth and Planetary Science Letters</i> , 2005, 240, 668-680.	4.4	74
24	Multistage metasomatism in ultrahigh-pressure mafic rocks from the North Dabie Complex (China). <i>Lithos</i> , 2006, 90, 19-42.	1.4	74
25	Salt-rich aqueous fluids formed during eclogitization of metabasites in the Alpine continental crust (Austroalpine Mt. Emilius unit, Italian western Alps). <i>Lithos</i> , 1998, 43, 151-167.	1.4	71
26	Fluid-mobile elements in serpentinites: Constraints on serpentinisation environments and element cycling in subduction zones. <i>Chemical Geology</i> , 2017, 466, 654-666.	3.3	71
27	D/H isotope ratios of high pressure ultramafic rocks: implications for fluid sources and mobility in the subducted hydrous mantle. <i>Contributions To Mineralogy and Petrology</i> , 2001, 141, 145-159.	3.1	68
28	Nitrogen recycling in subducted mantle rocks and implications for the global nitrogen cycle. <i>International Journal of Earth Sciences</i> , 2014, 103, 2081-2099.	1.8	68
29	Subduction zone metamorphic pathway for deep carbon cycling: II. Evidence from HP/UHP metabasaltic rocks and ophicarbonates. <i>Chemical Geology</i> , 2015, 412, 132-150.	3.3	68
30	Mantle wedge peridotites: Fossil reservoirs of deep subduction zone processes. <i>Lithos</i> , 2010, 120, 186-201.	1.4	67
31	The water and fluid-mobile element cycles during serpentinite subduction. A review. <i>European Journal of Mineralogy</i> , 2019, 31, 405-428.	1.3	66
32	The oxidation state of mantle wedge majoritic garnet websterites metasomatised by C-bearing subduction fluids. <i>Earth and Planetary Science Letters</i> , 2010, 298, 417-426.	4.4	61
33	Fossil intermediate-depth earthquakes in subducting slabs linked to differential stress release. <i>Nature Geoscience</i> , 2017, 10, 960-966.	12.9	61
34	How geometry and anisotropy affect residual strain in host-inclusion systems: Coupling experimental and numerical approaches. <i>American Mineralogist</i> , 2018, 103, 2032-2035.	1.9	58
35	Chloritoid-bearing assemblages in mafic systems and eclogite-facies hydration of alpine Mg-Al metagabbros (Erro-Tobbio Unit, Ligurian Western Alps). <i>European Journal of Mineralogy</i> , 1995, 7, 1149-1168.	1.3	54
36	Dolomite-bearing orogenic garnet peridotites witness fluid-mediated carbon recycling in a mantle wedge (Ulten Zone, Eastern Alps, Italy). <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 401-420.	3.1	53

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37	OH-bearing planar defects in olivine produced by the breakdown of Ti-rich humite minerals from Dabie Shan (China). <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 417-428.	3.1	52
38	B, Sr and Pb isotope geochemistry of high-pressure Alpine metaperidotites monitors fluid-mediated element recycling during serpentinite dehydration in subduction mÃlange (Cima di Gagnone, Swiss) Tj ETQq0 0 OrqBT /Overedock 10 T		
39	Mg-metasomatism of oceanic gabbros and its control on Ti-clinohumite formation during eclogitization. <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 1-17.	3.1	50
40	Exhumation of alpine high-pressure rocks: insights from petrology of eclogite clasts in the Tertiary Piedmontese basin (Ligurian Alps, Italy). <i>Lithos</i> , 2004, 74, 21-40.	1.4	49
41	Halogens and noble gases in serpentinites and secondary peridotites: Implications for seawater subduction and the origin of mantle neon. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 285-304.	3.9	47
42	Oxygen and nitrogen isotopes as tracers of fluid activities in serpentinites and metasediments during subduction. <i>Mineralogy and Petrology</i> , 2007, 91, 11-24.	1.1	46
43	Melt Migration and Intrusion during Exhumation of the Alboran Lithosphere: the Tallante Mantle Xenolith Record (Betic Cordillera, SE Spain). <i>Journal of Petrology</i> , 2010, 51, 295-325.	2.8	41
44	The Behavior of Halogens During Subduction-Zone Processes. <i>Springer Geochemistry</i> , 2018, , 545-590.	0.1	39
45	Intraoceanic subduction of "heterogeneous" oceanic lithosphere in narrow basins: 2D numerical modeling. <i>Lithos</i> , 2012, 140-141, 234-251.	1.4	24
46	Different PT paths recorded in a tectonic mÃlange (Voltri Massif, NW Italy): implications for the exhumation of HP rocks. <i>Geodinamica Acta</i> , 2007, 20, 3-19.	2.2	20
47	Petrology and Geochemistry of Serpentinites Associated with the Ultra-High Pressure Lago di Cignana Unit (Italian Western Alps). <i>Journal of Petrology</i> , 2019, 60, 1229-1262.	2.8	20
48	CO2 fluid and silicate glass as monitors of alkali basalt/peridotite interaction in the mantle wedge beneath Gobernador Gregores, Southern Patagonia. <i>Lithos</i> , 2009, 107, 121-133.	1.4	19
49	Raman Elastic Geobarometry For Anisotropic Mineral Inclusions. <i>American Mineralogist</i> , 2018, , .	1.9	18
50	The contribution of elastic geothermobarometry to the debate on HP versus UHP metamorphism. <i>Journal of Metamorphic Geology</i> , 2022, 40, 229-242.	3.4	18
51	Using the elastic properties of zircon-garnet host-inclusion pairs for thermobarometry of the ultrahigh-pressure Dora-Maira whiteschists: problems and perspectives. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	17
52	Establishing a protocol for the selection of zircon inclusions in garnet for Raman thermobarometry. <i>American Mineralogist</i> , 2020, 105, 992-1001.	1.9	15
53	The subduction and exhumation history of the Voltri Ophiolite, Italy: Evaluating exhumation mechanisms for high-pressure metamorphic massifs. <i>Lithos</i> , 2020, 376-377, 105767.	1.4	14
54	The role of brucite in water and element cycling during serpentinite subduction " Insights from Erro Tobbio (Liguria, Italy). <i>Lithos</i> , 2020, 360-361, 105431.	1.4	14

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55	Superposed Sedimentary and Tectonic Block-In-Matrix Fabrics in a Subducted Serpentinite MÃlange (High-Pressure Zermatt Saas Ophiolite, Western Alps). <i>Geosciences (Switzerland)</i> , 2019, 9, 358.	2.2	13
56	Meta-rodingite dikes as recorders of subduction zone metamorphism and serpentinite dehydration: Voltri Ophiolite, Italy. <i>Chemical Geology</i> , 2021, 565, 120077.	3.3	12
57	Comment on "Subduction polarity reversal at the junction between the Western Alps and the Northern Apennines, Italy" by G. Vignaroli, C. Faccenna, L. Jolivet, C. Piromallo, F. Rossetti. <i>Tectonophysics</i> , 2009, 465, 221-226.	2.2	9
58	Fingerprinting and relocating tectonic slices along the plate interface: Evidence from the Lago Superiore unit at Monviso (Western Alps). <i>Lithos</i> , 2020, 352-353, 105308.	1.4	9
59	Exhumation dynamics of high-pressure metamorphic rocks from the Voltri Unit, Western Alps: constraints from phengite Rb-Sr geochronology. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	9
60	Extensive fluid-rock interaction and pressure solution in a UHP fluid pathway recorded by garnetite, Lago di Cignana, Western Alps. <i>Journal of Metamorphic Geology</i> , 2021, 39, 501-518.	3.4	8
61	How to quake a subducting dry slab at intermediate depths: Inferences from numerical modelling. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117289.	4.4	7
62	Commensurate Growth of Magnetite Microinclusions in Olivine under Mantle Conditions. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 825-830.	2.7	5
63	Comments on the paper "Subduction of a fossil slow-ultraslow spreading ocean: a petrology-constrained geodynamic model based on the Voltri Massif, Ligurian Alps, NW Italy" by G. B. Piccardo. <i>International Geology Review</i> , 2013, 55, 804-811.	2.1	2