

Simone Tumiati

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Carbon-saturated COH fluids in the upper mantle: a review of high-pressure and high-temperature ex situ experiments. <i>European Journal of Mineralogy</i> , 2022, 34, 59-75.	1.3	9
2	Subducted organic matter buffered by marine carbonate rules the carbon isotopic signature of arc emissions. <i>Nature Communications</i> , 2022, 13, .	12.8	17
3	Abiotic methane generation through reduction of serpentinite-hosted dolomite: Implications for carbon mobility in subduction zones. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 311, 119-140.	3.9	18
4	Reaction-induced Mantle Weakening at High-Pressure Conditions: An Example From Garnet Pyroxenites of Ulten Zone (Eastern Alps, N Italy). <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022584.	3.4	1
5	Multistage CO ₂ sequestration in the subduction zone: Insights from exhumed carbonated serpentinites, SW Tianshan UHP belt, China. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 218-243.	3.9	22
6	Role of defects in carbon materials during metal-free formic acid dehydrogenation. <i>Nanoscale</i> , 2020, 12, 22768-22777.	5.6	19
7	Mantle-Derived Corundum-Bearing Felsic Dykes May Survive Only within the Lower (Refractory/Inert) Crust: Evidence from Zircon Geochemistry and Geochronology (Ivrea-Verbanese Zone, Southern Alps). <i>Tectonophysics</i> , 2020, 784, 1-14.	0.2	1
8	Orthovanadate wakefieldite-(Ce) in symplectites replacing vanadium-bearing omphacite in the ultra-oxidized manganese deposit of Praborna (Aosta Valley, Western Italian Alps). <i>American Mineralogist</i> , 2020, 105, 1242-1253.	1.9	2
9	Abiotic and biotic processes that drive carboxylation and decarboxylation reactions. <i>American Mineralogist</i> , 2020, 105, 609-615.	1.9	13
10	Dissolution susceptibility of glass-like carbon versus crystalline graphite in high-pressure aqueous fluids and implications for the behavior of organic matter in subduction zones. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 383-402.	3.9	19
11	High pressure melting of eclogites and metasomatism of garnet peridotites from Monte Duria Area (Central Alps, N Italy): A proxy for melt-rock reaction during subduction. <i>Lithos</i> , 2020, 358-359, 105391.	1.4	6
12	Fluid-mediated selective dissolution of subducting carbonaceous material: Implications for carbon recycling and fluid fluxes at forearc depths. <i>Chemical Geology</i> , 2020, 549, 119682.	3.3	25
13	Redox processes and the role of carbon-bearing volatiles from the slab-mantle interface to the mantle wedge. <i>Journal of the Geological Society</i> , 2019, 176, 388-397.	2.1	29
14	Granulite-facies Overprint in Garnet Peridotites and Kyanite Eclogites of Monte Duria (Central Alps). <i>Tectonophysics</i> , 2019, 784, 1-14.	0.2	1
15	Experimental determination of magnesia and silica solubilities in graphite-saturated and redox-buffered high-pressure COH fluids in equilibrium with forsterite+enstatite and magnesite+enstatite. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	34
16	The redox budget of crust-derived fluid phases at the slab-mantle interface. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 209, 70-84.	3.9	28
17	The Cogne magnetite deposit (Western Alps, Italy): A Late Jurassic seafloor ultramafic-hosted hydrothermal system?. <i>Ore Geology Reviews</i> , 2017, 83, 103-126.	2.7	17
18	Ni-Fe-Cu-PGE ore deposition driven by metasomatic fluids and melt-rock reactions in the deep crust: The ultramafic pipe of Valmaggia, Ivrea-Verbanese, Italy. <i>Ore Geology Reviews</i> , 2017, 90, 485-509.	2.7	34

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19	Siderite deposits in northern Italy: Early Permian to Early Triassic hydrothermalism in the Southern Alps. <i>Lithos</i> , 2017, 284-285, 276-295.	1.4	10
20	Silicate dissolution boosts the CO ₂ concentrations in subduction fluids. <i>Nature Communications</i> , 2017, 8, 616.	12.8	45
21	Quantitative analysis of COH fluids synthesized at HP & HT conditions: an optimized methodology to measure volatiles in experimental capsules. <i>Geofluids</i> , 2016, 16, 841-855.	0.7	16
22	High-temperature and high-pressure behavior of carbonates in the ternary diagram CaCO ₃ -MgCO ₃ -FeCO ₃ . <i>American Mineralogist</i> , 2016, 101, 1423-1430.	1.9	22
23	Ultra-oxidized rocks in subduction mantle? Decoupling between oxygen fugacity and oxygen availability in a Mn-rich metasomatic environment. <i>Lithos</i> , 2015, 226, 116-130.	1.4	47
24	Magnetite from the Cogne serpentinites (Piemonte ophiolite nappe, Italy). Insights into seafloor fluid-rock interaction. <i>European Journal of Mineralogy</i> , 2015, 27, 31-50.	1.3	21
25	An Experimental Study on COH-bearing Peridotite up to 3.2 GPa and Implications for Crust-Mantle Recycling. <i>Journal of Petrology</i> , 2013, 54, 453-479.	2.8	101
26	Fe ³⁺ distribution between garnet and pyroxenes in mantle wedge carbonate-bearing garnet peridotites (Sulu, China) and implications for their oxidation state. <i>Lithos</i> , 2012, 146-147, 11-17.	1.4	18
27	Carbonate pseudotachylytes: evidence for seismic faulting along carbonate faults. <i>Terra Nova</i> , 2011, 23, 187-194.	2.1	17
28	Hydrothermal origin of manganese in the high-pressure ophiolite metasediments of Praborna ore deposit (Aosta Valley, Western Alps). <i>European Journal of Mineralogy</i> , 2010, 22, 577-594.	1.3	23
29	Environmental factors controlling the precipitation of Cu-bearing hydroxalite-like compounds from mine waters. The case of the "Eve verda" spring (Aosta Valley, Italy). <i>European Journal of Mineralogy</i> , 2008, 20, 73-94.	1.3	21
30	Fluid-controlled crustal metasomatism within a high-pressure subducted mantle (Mt. Hochwart, Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5	1.4	34
31	The crystal structure of dissakisite-(La) and structural variations after annealing of radiation damage. <i>American Mineralogist</i> , 2006, 91, 104-110.	1.9	13
32	THE ANCIENT MINE OF SERVETTE (SAINT-MARCEL, VAL D'AOSTA, WESTERN ITALIAN ALPS): A MINERALOGICAL, METALLURGICAL AND CHARCOAL ANALYSIS OF FURNACE SLAGS*. <i>Archaeometry</i> , 2005, 47, 317-340.	1.3	20
33	Dissakisite-(La) from the Ulten zone peridotite (Italian Eastern Alps): A new end-member of the epidote group. <i>American Mineralogist</i> , 2005, 90, 1177-1185.	1.9	23
34	Mantle-crust interactions during Variscan subduction in the Eastern Alps (Nonsberg-Ulten zone): geochronology and new petrological constraints. <i>Earth and Planetary Science Letters</i> , 2003, 210, 509-526.	4.4	80
35	Aqueous concentration of CO ₂ in carbon-saturated fluids as a highly sensitive oxybarometer. <i>Geochemical Perspectives Letters</i> , 0, 16, 30-34.	5.0	9