Stefano Poli

List of Publications by Year
in descending order

64 papers	6,064 citations	136740 32 h-index	118652 62 g-index
68 all docs	68 docs citations	68 times ranked	3937 citing authors

#	Article	IF	Citations
1	Experimentally based water budgets for dehydrating slabs and consequences for arc magma generation. Earth and Planetary Science Letters, 1998, 163, 361-379.	1.8	1,907
2	Petrology of Subducted Slabs. Annual Review of Earth and Planetary Sciences, 2002, 30, 207-235.	4.6	511
3	H2O transport and release in subduction zones: Experimental constraints on basaltic and andesitic systems. Journal of Geophysical Research, 1995, 100, 22299-22314.	3.3	350
4	Carbonate stability and fluid composition in subducted oceanic crust: an experimental study on H2Oâ€“CO2-bearing basalts. Earth and Planetary Science Letters, 2000, 176, 295-310.	1.8	194
5	Devolatilization During Subduction. , 2014, , 669-701.		194
6	Continental arc volcanism and tectonic setting in Central Anatolia, Turkey. Tectonophysics, 1988, 146, 217-230.	0.9	182
7	The transport of carbon and hydrogen in subducted oceanic crust: An experimental study to 5ÂGPa. Earth and Planetary Science Letters, 2009, 278, 350-360.	1.8	165
8	Carbon mobilized at shallow depths in subduction zones by carbonatitic liquids. Nature Geoscience, 2015, 8, 633-636.	5.4	146
9	The stability of lawsonite and zoisite at high pressures: Experiments in CASH to 92 kbar and implications for the presence of hydrous phases in subducted lithosphere. Earth and Planetary Science Letters, 1994, 124, 105-118.	1.8	135
10	The amphibolite-eclogite transformation; an experimental study on basalt. Numerische Mathematik, 1993, 293, 1061-1107.	0.7	132
11	Magmatic Epidote. Reviews in Mineralogy and Geochemistry, 2004, 56, 399-430.	2.2	112
12	Generation of Mobile Components during Subduction of Oceanic Crust. , 2003, , 567-591.		111
13	The 10Ã… phase: a high-pressure expandable sheet silicate stable during subduction of hydrated lithosphere. Earth and Planetary Science Letters, 2001, 186, 125-141.	1.8	104
14	Chemistry versus time in the volcanic complex of Ischia (Gulf of Naples, Italy): evidence of successive magmatic cycles. Contributions To Mineralogy and Petrology, 1987, 95, 322-335.	1.2	101
15	An Experimental Study on COH-bearing Peridotite up to 3Â·2 GPa and Implications for Crustâ€“Mantle Recycling. Journal of Petrology, 2013, 54, 453-479.	1.1	101
16	Alkali in phlogopite and amphibole and their effects on phase relations in metasomatized peridotites: a high-pressure study. Contributions To Mineralogy and Petrology, 2009, 158, 723-737.	1.2	92
17	The high-pressure stability of zoisite and phase relationships of zoisite-bearing assemblages. Contributions To Mineralogy and Petrology, 1998, 130, 162-175.	1.2	84
18	Recovering the composition of melt and the fluid regime at the onset of crustal anatexis and S-type granite formation. Geology, 2013, 41, 115-118.	2.0	84

#	Article	IF	Citations
19	The Oxidation State of Metasomatized Mantle Wedge: Insights from C-O-H-bearing Garnet Peridotite. Journal of Petrology, 2009, 50, 1533-1552.	1.1	79
20	The high-pressure stability of hydrous phases in orogenic belts: an experimental approach on eclogite-forming processes. Tectonophysics, 1997, 273, 169-184.	0.9	70
21	Ternary Caâ€“Feâ€“Mg carbonates: subsolidus phase relations at 3.5ÂGPa and a thermodynamic solid solution model including order/disorder. Contributions To Mineralogy and Petrology, 2011, 161, 213-227.	1.2	66
22	The H2O content of granite embryos. Earth and Planetary Science Letters, 2014, 395, 281-290.	1.8	64
23	The oxidation state of mantle wedge majoritic garnet websterites metasomatised by C-bearing subduction fluids. Earth and Planetary Science Letters, 2010, 298, 417-426.	1.8	61
24	Nanogranite inclusions in migmatitic garnet: behavior during pistonâ€cylinder remelting experiments. Geofluids, 2013, 13, 405-420.	0.3	54
25	Experimental Subsolidus Studies on Epidote Minerals. Reviews in Mineralogy and Geochemistry, 2004, 56, 171-195.	2.2	52
26	Ultra-oxidized rocks in subduction mÃ©langes? Decoupling between oxygen fugacity and oxygen availability in a Mn-rich metasomatic environment. Lithos, 2015, 226, 116-130.	0.6	47
27	The Shanderman eclogites: a Late Carboniferous high-pressure event in the NW Talesh Mountains (NW) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	46
28	Silicate dissolution boosts the CO2 concentrations in subduction fluids. Nature Communications, 2017, 8, 616.	5.8	45
29	The composition of nanogranitoids in migmatites overlying the Ronda peridotites (Betic Cordillera, S) Tj ETQq1 1 0.784314 rgBT /Ove Petrology, 2016, 171, 1.	1.2	43
30	Mantle exhumation along the Tirich Mir Fault Zone, NW Pakistan: pre-mid-Cretaceous accretion of the Karakoram terrane to the Asian margin. Geological Society Special Publication, 2000, 170, 237-252.	0.8	40
31	Anatexis and fluid regime of the deep continental crust: New clues from melt and fluid inclusions in metapelitic migmatites from Ivrea Zone (<scp>NW</scp> Italy). Journal of Metamorphic Geology, 2019, 37, 951-975.	1.6	39
32	Syn-deformational migmatites and magmatic-arc metamorphism in the Xolapa Complex, southern Mexico. Journal of Metamorphic Geology, 2006, 24, 169-191.	1.6	38
33	Melting of siderite to 20GPa and thermodynamic properties of FeCO3-melt. Chemical Geology, 2015, 400, 34-43.	1.4	34
34	Experimental determination of magnesia and silica solubilities in graphite-saturated and redox-buffered high-pressure COH fluids in equilibrium with forsteriteâ€‰+â€‰enstatite and magnesiteâ€‰+â€‰enstatite. Contributions To Mineralogy and Petrology, 2018, 173, 1.	1.2	34
35	A new hydrous Al-bearing pyroxene as a water carrier in subduction zones. Earth and Planetary Science Letters, 2011, 310, 422-428.	1.8	32
36	Evidence of interspersed co-existing CaCO₃-III and CaCO₃-IIIb structures in polycrystalline CaCO₃ at high pressure. Mineralogical Magazine, 2014, 78, 225-233.	0.6	30

#	Article	IF	Citations
37	The redox budget of crust-derived fluid phases at the slab-mantle interface. Geochimica Et Cosmochimica Acta, 2017, 209, 70-84.	1.6	28
38	Iron oxidation state in garnet from a subduction setting: a micro-XANES and electron microprobe (â€œflank methodâ€) comparative study. Journal of Analytical Atomic Spectrometry, 2012, 27, 1725.	1.6	27
39	The high-pressure stability of chlorite and other hydrates in subduction mÃ©langes: experiments in the system Cr2O3â€“MgOâ€“Al2O3â€“SiO2â€“H2O. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	27
40	Time dimension in the geochemical approach and hazard estimates of a volcanic area: The isle of Ischia case (Italy). Journal of Volcanology and Geothermal Research, 1989, 36, 327-335.	0.8	26
41	A comment on ?Calcic amphibole equilibria and a new amphibole ? plagioclase geothermometer? by J.D. Blundy and T.J.B. Holland (Contrib Mineral Petrol (1990) 104: 208?224). Contributions To Mineralogy and Petrology, 1992, 111, 273-278.	1.2	24
42	Eclogite-facies vein systems in the Marun-Keu complex (Polar Urals, Russia): textural, chemical and thermal constraints for patterns of fluid flow in the lower crust. Contributions To Mineralogy and Petrology, 2004, 147, 484-504.	1.2	24
43	Experimental calibration of Forsteriteâ€“Anorthiteâ€“Ca-Tschermakâ€“Enstatite (FACE) geobarometer for mantle peridotites. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	23
44	Reaction spaces and P-T paths: from amphibole eclogite to greenschist facies in the Austroalpine domain (Oetztal Complex). Contributions To Mineralogy and Petrology, 1991, 106, 399-416.	1.2	22
45	High-temperature and high-pressure behavior of carbonates in the ternary diagram CaCO₃-MgCO₃-FeCO₃. American Mineralogist, 2016, 101, 1423-1430.	0.9	22
46	Behavior of epidote at high pressure and high temperature: a powder diffraction study up to 10ÂGPa and 1,200ÂK. Physics and Chemistry of Minerals, 2011, 38, 419-428.	0.3	21
47	The crystal structure of Mg8(Mg2Al2)Al8Si12(O,OH)56pumpellyite and its relevance in ultramafic systems at high pressure. American Mineralogist, 1999, 84, 1906-1914.	0.9	20
48	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. Geochimica Et Cosmochimica Acta, 2020, 273, 383-402.	1.6	19
49	Singular Equilibria in Paragonite Blueschists, Amphibolites and Eclogites. Journal of Petrology, 1998, 39, 1325-1346.	1.1	18
50	Fe3+ distribution between garnet and pyroxenes in mantle wedge carbonate-bearing garnet peridotites (Sulu, China) and implications for their oxidation state. Lithos, 2012, 146-147, 11-17.	0.6	18
51	Subducted organic matter buffered by marine carbonate rules the carbon isotopic signature of arc emissions. Nature Communications, 2022, 13, .	5.8	17
52	The temperature and compositional dependence of disordering in Fe-bearing dolomites. American Mineralogist, 2012, 97, 1676-1684.	0.9	16
53	Melting carbonated epidote eclogites: carbonatites from subducting slabs. Progress in Earth and Planetary Science, 2016, 3, .	1.1	16
54	Quantitative analysis of COH fluids synthesized at HP â€“ HT conditions: an optimized methodology to measure volatiles in experimental capsules. Geofluids, 2016, 16, 841-855.	0.3	16

#	Article	IF	Citations
55	Anatectic melt inclusions in ultra high temperature granulites. Journal of Metamorphic Geology, 2021, 39, 321-342.	1.6	16
56	An Experimental Determination of the Effect of Bulk Composition on Phase Relationships in Metasediments at Near-solidus Conditions. Journal of Petrology, 2009, 50, 909-931.	1.1	13
57	The stability and melting of aragonite: An experimental and thermodynamic model for carbonated eclogites in the mantle. Lithos, 2019, 324-325, 105-114.	0.6	13
58	High-temperature phase relations and topological constraints in the quaternary system MgO-Al2O3-SiO2-Cr2O3: An experimental study. American Mineralogist, 2007, 92, 735-747.	0.9	11
59	Evidence for deep subduction of Austroalpine crust (Texel Complex, NE Italy). Rendiconti Lincei, 2013, 24, 163-176.	1.0	10
60	Melting relations in the system FeCO3â€“MgCO3 and thermodynamic modelling of Feâ€“Mg carbonate melts. Contributions To Mineralogy and Petrology, 2016, 171, 1.	1.2	8
61	4. Experimental Subsolidus Studies on Epidote Minerals. , 2004, , 171-196.		6
62	Melt inclusions at MT. Edixon (Antarctica): Chemistry, petrology and implications for the evolution of the Lanterman range. Lithos, 2020, 374-375, 105685.	0.6	5
63	Petrology and Uâ€“Pb geochronology of high-grade metavolcano-sedimentary rocks from central Xolapa Complex, southern Mexico. Lithos, 2020, 378-379, 105802.	0.6	4
64	Dolomite discloses a hidden history of subducting slabs. American Mineralogist, 2014, 99, 879-880.	0.9	3