Benoît Dubacq

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Timescales of subduction initiation and evolution of subduction thermal regimes. Earth and Planetary Science Letters, 2022, 584, 117521.	4.4	19
2	Along-dip variations of subduction fluids: The 30–80 km depth traverse of the Schistes Lustrés complex (Queyras-Monviso, W. Alps). Lithos, 2021, 394-395, 106168.	1.4	10
3	Crystal chemistry and partitioning of halogens in hydrous silicates. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	3
4	Preâ€orogenic upper crustal softening by lower greenschist facies metamorphic reactions in granites of the central Pyrenees. Journal of Metamorphic Geology, 2020, 38, 183-204.	3.4	13
5	From static alteration to mylonitization: a nano- to micrometric study of chloritization in granitoids with implications for equilibrium and percolation length scales. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	3
6	Massive formation of lawsonite in subducted sediments from the Schistes Lustrés (W. Alps): Implications for mass transfer and decarbonation in cold subduction zones. Lithos, 2020, 370-371, 105629.	1.4	13
7	Slabitization: Mechanisms controlling subduction development and viscous coupling. Earth-Science Reviews, 2020, 208, 103259.	9.1	42
8	Partitioning of chromium between garnet and clinopyroxene: first-principle modelling versus metamorphic assemblages. European Journal of Mineralogy, 2020, 32, 387-403.	1.3	5
9	Deformation mechanisms in mafic amphibolites and granulites: record from the Semail metamorphic sole during subduction infancy. Solid Earth, 2019, 10, 1733-1755.	2.8	22
10	Shortening of the axial zone, pyrenees: Shortening sequence, upper crustal mylonites and crustal strength. Tectonophysics, 2019, 766, 433-452.	2.2	21
11	A XANES and EPMA study of Fe3+ in chlorite: Importance of oxychlorite and implications for cation site distribution and thermobarometry. American Mineralogist, 2019, 104, 403-417.	1.9	19
12	Early subduction dynamics recorded by the metamorphic sole of the Mt. Albert ophiolitic complex (Gaspé, Quebec). Lithos, 2019, 334-335, 161-179.	1.4	19
13	Controls on Trace Element Distribution in Oxides and Silicates. Journal of Petrology, 2018, 59, 233-256.	2.8	10
14	Mantle Wedge (De)formation During Subduction Infancy: Evidence from the Base of the Semail Ophiolitic Mantle. Journal of Petrology, 2018, 59, 2061-2092.	2.8	26
15	Rapid reactions between CO2, brine and silicate minerals during geological carbon storage: Modelling based on a field CO2 injection experiment. Chemical Geology, 2017, 468, 17-31.	3.3	29
16	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail) Tj ETQqO	0 0 ₃ rgBT /0	Overlock 10 T
17	Plate interface rheological switches during subduction infancy: Control on slab penetration and metamorphic sole formation. Earth and Planetary Science Letters, 2016, 451, 208-220.	4.4	130

Strain localization and fluid infiltration in the mantle wedge during subduction initiation: Evidence
from the base of the New Caledonia ophiolite. Lithos, 2016, 244, 1-19.

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#	Article	IF	CITATIONS
19	Fluid flow and CO2–fluid–mineral interactions during CO2-storage in sedimentary basins. Chemical Geology, 2014, 369, 22-50.	3.3	159
20	XMapTools: A MATLAB©-based program for electron microprobe X-ray image processing and geothermobarometry. Computers and Geosciences, 2014, 62, 227-240.	4.2	287
21	In situ redeposition of trace metals mobilized by CO ₂ â€charged brines. Geochemistry, Geophysics, Geosystems, 2013, 14, 1321-1332.	2.5	23
22	Controls of sluggish, CO2-promoted, hematite and K-feldspar dissolution kinetics in sandstones. Earth and Planetary Science Letters, 2013, 362, 76-87.	4.4	30
23	An activity model for phase equilibria in the H2O–CO2–NaCl system. Geochimica Et Cosmochimica Acta, 2013, 110, 229-252.	3.9	47
24	Positive correlation between Li and Mg isotope ratios in the river waters of the Mackenzie Basin challenges the interpretation of apparent isotopic fractionation during weathering. Earth and Planetary Science Letters, 2012, 333-334, 35-45.	4.4	96
25	Noble gas and carbon isotopic evidence for CO2-driven silicate dissolution in a recent natural CO2 field. Earth and Planetary Science Letters, 2012, 341-344, 10-19.	4.4	26
26	Modern-style plate subduction preserved in the Palaeoproterozoic West African craton. Nature Geoscience, 2012, 5, 60-65.	12.9	140
27	Fluid-mineral reactions and trace metal mobilization in an exhumed natural CO2 reservoir, Green River, Utah. Geology, 2012, 40, 555-558.	4.4	89
28	How continuous and precise is the record of <i>P–T</i> paths? Insights from combined thermobarometry and thermodynamic modelling into subduction dynamics (Schistes Lustrés, W. Alps). Journal of Metamorphic Geology, 2012, 30, 323-346.	3.4	66
29	Atomistic investigation of the pyrophyllitic substitution and implications on clay stability. American Mineralogist, 2011, 96, 241-249.	1.9	9
30	Comment on "The Role of H ₃ O ⁺ in the Crystal Structure of Illite―By F. Nieto, M. Melini, And I. Abad. Clays and Clay Minerals, 2010, 58, 717-720.	1.3	7
31	Dehydration of dioctahedral aluminous phyllosilicates: thermodynamic modelling and implications for thermobarometric estimates. Contributions To Mineralogy and Petrology, 2010, 159, 159-174.	3.1	104
32	Thermodynamic modelling of clay dehydration, stability and compositional evolution with temperature, pressure and H2O activity. Geochimica Et Cosmochimica Acta, 2009, 73, 6544-6564.	3.9	100