

# Benoît Dubacq

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,675  
citations

394421  
19  
h-index

414414  
32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1907  
citing authors

#	ARTICLE	IF	CITATIONS
1	XMapTools: A MATLAB®-based program for electron microprobe X-ray image processing and geothermobarometry. Computers and Geosciences, 2014, 62, 227-240.	4.2	287
2	Fluid flow and CO <sub>2</sub> –fluid–mineral interactions during CO <sub>2</sub> -storage in sedimentary basins. Chemical Geology, 2014, 369, 22-50.	3.3	159
3	Modern-style plate subduction preserved in the Palaeoproterozoic West African craton. Nature Geoscience, 2012, 5, 60-65.	12.9	140
4	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
5	Dehydration of dioctahedral aluminous phyllosilicates: thermodynamic modelling and implications for thermobarometric estimates. Contributions To Mineralogy and Petrology, 2010, 159, 159-174.	3.1	104
6	Thermodynamic modelling of clay dehydration, stability and compositional evolution with temperature, pressure and H <sub>2</sub> O activity. Geochimica Et Cosmochimica Acta, 2009, 73, 6544-6564.	3.9	100
7	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
8	Fluid-mineral reactions and trace metal mobilization in an exhumed natural CO <sub>2</sub> reservoir, Green River, Utah. Geology, 2012, 40, 555-558.	4.4	89
9	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail) Tj ETQq1 1 0,784314 rgBT /Ove	3.4	81
10	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
11	An activity model for phase equilibria in the H <sub>2</sub> O–CO <sub>2</sub> –NaCl system. Geochimica Et Cosmochimica Acta, 2013, 110, 229-252.	3.9	47
12	Slabitzation: Mechanisms controlling subduction development and viscous coupling. Earth-Science Reviews, 2020, 208, 103259.	9.1	42
13	Controls of sluggish, CO <sub>2</sub> -promoted, hematite and K-feldspar dissolution kinetics in sandstones. Earth and Planetary Science Letters, 2013, 362, 76-87.	4.4	30
14	Rapid reactions between CO <sub>2</sub> , brine and silicate minerals during geological carbon storage: Modelling based on a field CO <sub>2</sub> injection experiment. Chemical Geology, 2017, 468, 17-31.	3.3	29
15	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.	1.4	27
16	Noble gas and carbon isotopic evidence for CO <sub>2</sub> -driven silicate dissolution in a recent natural CO <sub>2</sub> field. Earth and Planetary Science Letters, 2012, 341-344, 10-19.	4.4	26
17	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
18	In situ redeposition of trace metals mobilized by CO <sub>2</sub> –charged brines. Geochemistry, Geophysics, Geosystems, 2013, 14, 1321-1332.	2.5	23

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19	Deformation mechanisms in mafic amphibolites and granulites: record from the Semail metamorphic sole during subduction infancy. <i>Solid Earth</i> , 2019, 10, 1733-1755.	2.8	22
20	Shortening of the axial zone, pyrenees: Shortening sequence, upper crustal mylonites and crustal strength. <i>Tectonophysics</i> , 2019, 766, 433-452.	2.2	21
21	A XANES and EPMA study of Fe <sup>3+</sup> in chlorite: Importance of oxychlorite and implications for cation site distribution and thermobarometry. <i>American Mineralogist</i> , 2019, 104, 403-417.	1.9	19
22	Early subduction dynamics recorded by the metamorphic sole of the Mt. Albert ophiolitic complex (Gaspé, Quebec). <i>Lithos</i> , 2019, 334-335, 161-179.	1.4	19
23	Timescales of subduction initiation and evolution of subduction thermal regimes. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117521.	4.4	19
24	Pre-orogenic upper crustal softening by lower greenschist facies metamorphic reactions in granites of the central Pyrenees. <i>Journal of Metamorphic Geology</i> , 2020, 38, 183-204.	3.4	13
25	Massive formation of lawsonite in subducted sediments from the Schistes Lustrés (W. Alps): Implications for mass transfer and decarbonation in cold subduction zones. <i>Lithos</i> , 2020, 370-371, 105629.	1.4	13
26	Controls on Trace Element Distribution in Oxides and Silicates. <i>Journal of Petrology</i> , 2018, 59, 233-256.	2.8	10
27	Along-dip variations of subduction fluids: The 30°-80 km depth traverse of the Schistes Lustrés complex (Queyras-Monviso, W. Alps). <i>Lithos</i> , 2021, 394-395, 106168.	1.4	10
28	Atomistic investigation of the pyrophyllitic substitution and implications on clay stability. <i>American Mineralogist</i> , 2011, 96, 241-249.	1.9	9
29	Comment on "The Role of H <sub>3</sub> O <sup>+</sup> in the Crystal Structure of Illite". By F. Nieto, M. Melini, And I. Abad. <i>Clays and Clay Minerals</i> , 2010, 58, 717-720.	1.3	7
30	Partitioning of chromium between garnet and clinopyroxene: first-principle modelling versus metamorphic assemblages. <i>European Journal of Mineralogy</i> , 2020, 32, 387-403.	1.3	5
31	From static alteration to mylonitization: a nano- to micrometric study of chloritization in granitoids with implications for equilibrium and percolation length scales. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	3
32	Crystal chemistry and partitioning of halogens in hydrous silicates. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	3