

Benoît Dubacq

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,675
citations

393982

19
h-index

414034

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. <i>Computers and Geosciences</i> , 2014, 62, 227-240.	2.0	287
2	Fluid flow and CO ₂ -fluid-mineral interactions during CO ₂ -storage in sedimentary basins. <i>Chemical Geology</i> , 2014, 369, 22-50.	1.4	159
3	Modern-style plate subduction preserved in the Palaeoproterozoic West African craton. <i>Nature Geoscience</i> , 2012, 5, 60-65.	5.4	140
4	Plate interface rheological switches during subduction infancy: Control on slab penetration and metamorphic sole formation. <i>Earth and Planetary Science Letters</i> , 2016, 451, 208-220.	1.8	130
5	Dehydration of dioctahedral aluminous phyllosilicates: thermodynamic modelling and implications for thermobarometric estimates. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 159-174.	1.2	104
6	Thermodynamic modelling of clay dehydration, stability and compositional evolution with temperature, pressure and H ₂ O activity. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6544-6564.	1.6	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. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 35-45.	1.8	96
8	Fluid-mineral reactions and trace metal mobilization in an exhumed natural CO ₂ reservoir, Green River, Utah. <i>Geology</i> , 2012, 40, 555-558.	2.0	89
9	Petrological evidence for stepwise accretion of metamorphic soles during subduction infancy (Semail) Tj ETQq1 1 0,784314 rgBT /Ove	1.6	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). <i>Journal of Metamorphic Geology</i> , 2012, 30, 323-346.	1.6	66
11	An activity model for phase equilibria in the H ₂ O-CO ₂ -NaCl system. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 229-252.	1.6	47
12	Slab tization: Mechanisms controlling subduction development and viscous coupling. <i>Earth-Science Reviews</i> , 2020, 208, 103259.	4.0	42
13	Controls of sluggish, CO ₂ -promoted, hematite and K-feldspar dissolution kinetics in sandstones. <i>Earth and Planetary Science Letters</i> , 2013, 362, 76-87.	1.8	30
14	Rapid reactions between CO ₂ , brine and silicate minerals during geological carbon storage: Modelling based on a field CO ₂ injection experiment. <i>Chemical Geology</i> , 2017, 468, 17-31.	1.4	29
15	Strain localization and fluid infiltration in the mantle wedge during subduction initiation: Evidence from the base of the New Caledonia ophiolite. <i>Lithos</i> , 2016, 244, 1-19.	0.6	27
16	Noble gas and carbon isotopic evidence for CO ₂ -driven silicate dissolution in a recent natural CO ₂ field. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 10-19.	1.8	26
17	Mantle Wedge (De)formation During Subduction Infancy: Evidence from the Base of the Semail Ophiolitic Mantle. <i>Journal of Petrology</i> , 2018, 59, 2061-2092.	1.1	26
18	In situ redeposition of trace metals mobilized by CO ₂ -charged brines. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1321-1332.	1.0	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.	1.2	22
20	Shortening of the axial zone, pyrenees: Shortening sequence, upper crustal mylonites and crustal strength. <i>Tectonophysics</i> , 2019, 766, 433-452.	0.9	21
21	A XANES and EPMA study of Fe ³⁺ in chlorite: Importance of oxychlorite and implications for cation site distribution and thermobarometry. <i>American Mineralogist</i> , 2019, 104, 403-417.	0.9	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.	0.6	19
23	Timescales of subduction initiation and evolution of subduction thermal regimes. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117521.	1.8	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.	1.6	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.	0.6	13
26	Controls on Trace Element Distribution in Oxides and Silicates. <i>Journal of Petrology</i> , 2018, 59, 233-256.	1.1	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.	0.6	10
28	Atomistic investigation of the pyrophyllitic substitution and implications on clay stability. <i>American Mineralogist</i> , 2011, 96, 241-249.	0.9	9
29	Comment on "The Role of H ₃ O ⁺ in the Crystal Structure of Illite" By F. Nieto, M. Melini, And I. Abad. <i>Clays and Clay Minerals</i> , 2010, 58, 717-720.	0.6	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.	0.4	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.	1.2	3
32	Crystal chemistry and partitioning of halogens in hydrous silicates. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	3