Fabrice Brunet

List of Publications by Year
in descending order

75	3,256	147726	149623
papers	citations	31 h-index	56 g-index

79	79	79	3812
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of Defects and Radiation Damage on He Diffusion in Magnetite: Implication for (U-Th)/He Thermochronology. Minerals (Basel, Switzerland), 2022, 12, 590.	0.8	6
2	Aqueous alteration and bioalteration of a synthetic enstatite chondrite. Meteoritics and Planetary Science, 2021, 56, 601-618.	0.7	0
3	Podiform magnetite ore(s) in the Sabzevar ophiolite (NE Iran): oceanic hydrothermal alteration of a chromite deposit. Contributions To Mineralogy and Petrology, 2021, 176, 1.	1.2	3
4	H2 dynamics in the soil of a H2-emitting zone (SÃ£o Francisco Basin, Brazil): Microbial uptake quantification and reactive transport modelling. Applied Geochemistry, 2020, 112, 104474.	1.4	22
5	Space and time distribution of subsurface H2 concentration in so-called â€œfairy circlesâ€: Insight from a conceptual 2-D transport model. Bulletin - Societie Geologique De France, 2020, 191, 13.	0.9	17
6	Unraveling the exhumation history of high-pressure ophiolites using magnetite (U-Th-Sm)/He thermochronometry. Earth and Planetary Science Letters, 2020, 543, 116359.	1.8	15
7	Hydrothermal Production of H2 and Magnetite From Steel Slags: A Geo-Inspired Approach Based on Olivine Serpentinization. Frontiers in Earth Science, 2019, 7, .	0.8	21
8	Effect of gold and magnetite on the decomposition kinetics of formic acid at 200â€¯Â°C under hydrothermal conditions. Chemical Geology, 2019, 507, 1-8.	1.4	8
9	Oxidative decomposition products of synthetic NaFePO4 mariÄ‡ite: nano-textural and electrochemical characterization. European Journal of Mineralogy, 2019, 31, 837-842.	0.4	3
10	Hydrogen production by hydrothermal oxidation of FeO under acidic conditions. International Journal of Hydrogen Energy, 2017, 42, 795-806.	3.8	21
11	Experimental insight into redox transfer by iron- and sulfur-bearing serpentinite dehydration in subduction zones. Earth and Planetary Science Letters, 2017, 479, 133-143.	1.8	27
12	A laboratory nanoseismological study on deep-focus earthquake micromechanics. Science Advances, 2017, 3, e1601896.	4.7	30
13	Hydrothermal Steel Slag Valorizationâ€”Part II: Hydrogen and Nano-Magnetite Production. Frontiers in Earth Science, 2017, 5, .	0.8	7
14	Hydrothermal Valorization of Steel Slagsâ€”Part I: Coupled H2 Production and CO2 Mineral Sequestration. Frontiers in Energy Research, 2017, 5, .	1.2	8
15	Effect of Water Activity on Reaction Kinetics and Intergranular Transport: Insights from the Ca(OH)2â€‰+â€‰MgCO3â† CaCO3â€‰+â€‰Mg(OH)2Reaction at 1Â·8â€‰GPa. Journal of Petrology, 2016, 57, 1389-1408.	1.1	3
16	Role of iron content on serpentinite dehydration depth in subduction zones: Experiments and thermodynamic modeling. Lithos, 2016, 264, 441-452.	0.6	28
17	Selective transfer of Li-Al-rich phyllosilicate to metamorphic veins (Western Alps): Laser Induced Breakdown Spectroscopy (LIBS) compositional profiles and microstructural characterization. Journal of Geodynamics, 2016, 101, 51-72.	0.7	12
18	A novel route for FePO4 olivine synthesis from sarcopside oxidation. Solid State Sciences, 2016, 62, 29-33.	1.5	6

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19	Ce(III) and Ce(IV) (re)distribution and fractionation in a laterite profile from Madagascar: Insights from in situ XANES spectroscopy at the Ce LIII-edge. Geochimica Et Cosmochimica Acta, 2015, 153, 134-148.	1.6	67
20	Formation of CO2, H2 and condensed carbon from siderite dissolution in the 200â€“300Â°C range and at 50MPa. Geochimica Et Cosmochimica Acta, 2015, 154, 201-211.	1.6	65
21	How Mercury can be the most reduced terrestrial planet and still store iron in its mantle. Earth and Planetary Science Letters, 2014, 394, 186-197.	1.8	54
22	Amphibole genesis in pyroxenites from the Beni Bousera peridotite massif (Rif, Morocco): Evidence for two different metasomatic episodes. Lithos, 2014, 208-209, 67-80.	0.6	7
23	Water diffusion-transport in a synthetic dunite: Consequences for oceanic peridotite serpentinization. Earth and Planetary Science Letters, 2014, 403, 263-272.	1.8	33
24	Enhanced Olivine Carbonation within a Basalt as Compared to Single-Phase Experiments: Reevaluating the Potential of CO₂ Mineral Sequestration. Environmental Science & Technology, 2014, 48, 5512-5519.	4.6	70
25	Raman spectroscopic properties and Raman identification of CaSâ€MgSâ€MnSâ€FeSâ€Cr₂FeS₄ sulfides in meteorites and reduced sulfurâ€rich systems. Meteoritics and Planetary Science, 2013, 48, 1415-1426.	0.7	68
26	High-purity hydrogen gas from the reaction between BOF steel slag and water in the 473â€“673ÂK range. International Journal of Hydrogen Energy, 2013, 38, 7382-7393.	3.8	34
27	The deleterious effect of secondary phases on olivine carbonation yield: Insight from time-resolved aqueous-fluid sampling and FIB-TEM characterization. Chemical Geology, 2013, 357, 186-202.	1.4	47
28	Metamorphic and magmatic overprint of garnet pyroxenites from the Beni Bousera massif (northern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	5
29	Deep-Focus Earthquake Analogs Recorded at High Pressure and Temperature in the Laboratory. Science, 2013, 341, 1377-1380.	6.0	120
30	Serpentinization of oceanic peridotites: 1. A highâ€sensitivity method to monitor magnetite production in hydrothermal experiments. Journal of Geophysical Research, 2012, 117, .	3.3	57
31	Serpentinization of oceanic peridotites: 2. Kinetics and processes of San Carlos olivine hydrothermal alteration. Journal of Geophysical Research, 2012, 117, .	3.3	128
32	Low-temperature Wollastonite Formed by Carbonate Reduction: a Marker of Serpentinite Redox Conditions. Journal of Petrology, 2012, 53, 159-176.	1.1	49
33	Changes on the nanostructure of cementitius calcium silicate hydrates (Câ€“Sâ€“H) induced by aqueous carbonation. Journal of Materials Science, 2012, 47, 764-771.	1.7	40
34	Simultaneous acoustic emissions monitoring and synchrotron X-ray diffraction at high pressure and temperature: Calibration and application to serpentinite dehydration. Physics of the Earth and Planetary Interiors, 2011, 189, 121-133.	0.7	51
35	REE and Hf distribution between pyrope and NaCl-bearing water at eclogitic-facies conditions. European Journal of Mineralogy, 2011, 23, 343-353.	0.4	2
36	Metamorphic veining and mass transfer in a chemically closed system: a case study in Alpine metabauxites (western Vanoise). Journal of Metamorphic Geology, 2011, 29, 275-300.	1.6	28

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37	Electrical conductivity of polycrystalline Mg(OH)2 at 2ÂGPa: effect of grain boundary hydrationâ€“dehydration. Physics and Chemistry of Minerals, 2011, 38, 543-556.	0.3	25
38	Melting textures and microdiamonds preserved in graphite pseudomorphs from the Beni Bousera peridotite massif, Morocco. European Journal of Mineralogy, 2011, 23, 157-168.	0.4	32
39	Raman mapping and numerical simulation of calcium carbonates distribution in experimentally carbonated Portland-cement cores. European Journal of Mineralogy, 2010, 22, 63-74.	0.4	44
40	Confirmation of octahedrally coordinated phosphorus in AlPO4 -containing stishovite by31 P NMR. European Journal of Mineralogy, 2009, 21, 667-671.	0.4	11
41	Effect of carbonation on the hydro-mechanical properties of Portland cements. Cement and Concrete Research, 2009, 39, 1156-1163.	4.6	102
42	Structural models of random packing of spheres extended to bricks: simulation of the nanoporous calcium silicate hydrates. Molecular Simulation, 2009, 35, 1001-1006.	0.9	11
43	Heterogeneous porosity distribution in Portland cement exposed to CO2-rich fluids. Cement and Concrete Research, 2008, 38, 1038-1048.	4.6	209
44	Thermochemical characterization of Ca4La6(SiO4)6(OH)2 a synthetic La- and OH-analogous of britholite: implication for monazite and LREE apatites stability. Mineralogia, 2008, 39, 41-52.	0.4	5
45	Highâ€velocity frictional properties of a clayâ€bearing fault gouge and implications for earthquake mechanics. Journal of Geophysical Research, 2008, 113, .	3.3	177
46	Density profiles of pyrolite and MORB compositions across the 660Âkm seismic discontinuity. High Pressure Research, 2008, 28, 335-349.	0.4	11
47	Structure of the crust and the lithosphere in the Himalaya-Tibet region and implications on the rheology and eclogitization of the India plate. Himalayan Journal of Sciences, 2008, 5, 65-66.	0.3	1
48	Polymorphism and thermochemistry of MgAlPO4O, a product of lazulite breakdown at high temperature. European Journal of Mineralogy, 2007, 19, 159-172.	0.4	3
49	Experimental evidence of sixfold oxygen coordination for phosphorus. American Mineralogist, 2007, 92, 989-993.	0.9	12
50	Effect of incongruent dissolution on mineral solubility data derived from quench experiments. European Journal of Mineralogy, 2007, 19, 783-789.	0.4	8
51	Density distribution of the India plate beneath the Tibetan plateau: Geophysical and petrological constraints on the kinetics of lower-crustal eclogitization. Earth and Planetary Science Letters, 2007, 264, 226-244.	1.8	168
52	In situ measurements of Li isotopes in foraminifera. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	23
53	Nanodiamond nucleation below 2273K at 15GPa from carbons with different structural organizations. Carbon, 2007, 45, 636-648.	5.4	83
54	Thermochemistry of monazite-(La) and dissakisite-(La): implications for monazite and allanite stability in metapelites. Contributions To Mineralogy and Petrology, 2007, 154, 1-14.	1.2	125

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55	Experimental study and modeling of fluid reaction paths in the quartzâ€“kyaniteÂ±muscoviteâ€“water system at 0.7GPa in the 350â€“550Â°C range: Implications for Al selective transfer during metamorphism. Geochimica Et Cosmochimica Acta, 2006, 70, 1772-1788.	1.6	31
56	In situ X-ray diffraction study of an aluminous phase in MORB under lower mantle conditions. Physics and Chemistry of Minerals, 2006, 33, 28-34.	0.3	14
57	Evolution of the REE mineralogy in HPâ€“LT metapelites of the Sebtide complex, Rif, Morocco: Monazite stability and geochronology. Lithos, 2006, 87, 214-234.	0.6	120
58	Complete solid-solution between Na3Al2(PO4)3and Mg3Al2(SiO4)3garnets at high pressure. American Mineralogist, 2006, 91, 211-215.	0.9	33
59	SIMS analyses of oxygen isotopes: Matrix effects in Feâ€“Mgâ€“Ca garnets. Chemical Geology, 2005, 223, 208-226.	1.4	56
60	Oxygen isotope heterogeneities and diffusion profile in composite metamorphic-magmatic garnets from the Pyrenees. American Mineralogist, 2005, 90, 463-472.	0.9	58
61	Heat capacity of lazulite, MgAl2(PO4)2(OH)2, from 35 to 298 K and a (Sâ€“V) value for P2O5 to estimate phosphate entropy. Mineralogical Magazine, 2004, 68, 123-134.	0.6	6
62	Experimental study of the microtextural and structural transformations of carbonaceous materials under pressure and temperature. European Journal of Mineralogy, 2004, 15, 937-951.	0.4	112
63	Magnetic monitoring of hydrothermal magnetite nucleation-and-growth: Record of magnetic reversals. American Mineralogist, 2004, 88, 1385-1389.	0.9	9
64	Na3Al2(PO4)3, a fast sodium conductor at high pressure: in-situ impedance spectroscopy characterisation and phase diagram up to 8 GPa. Solid State Ionics, 2003, 159, 35-47.	1.3	35
65	Graphitization in a high-pressure, low-temperature metamorphic gradient: a Raman microspectroscopy and HRTEM study. Contributions To Mineralogy and Petrology, 2002, 143, 19-31.	1.2	287
66	Raadeite, Mg7(PO4)2(OH)8: a new dense-packed phosphate from Modum (Norway). European Journal of Mineralogy, 2001, 13, 319-327.	0.4	12
67	Partitioning of phosphorus between olivine, clinopyroxene and silicate glass in a spinel lherzolite xenolith from Yemen. Chemical Geology, 2001, 176, 51-72.	1.4	65
68	Compressibility and thermal expansivity of synthetic apatites, Ca5(PO4)3X with X = OH, F and Cl. European Journal of Mineralogy, 1999, 11, 1023-1036.	0.4	77
69	Phase relations in the MgO-P 2 O 5 -H 2 O system and the stability of phosphoellenbergerite: petrological implications. Contributions To Mineralogy and Petrology, 1998, 131, 54-70.	1.2	47
70	Structure Cristalline de la Phase Haute TempÃ©rature et Haute Pression de Mg3(PO4)2. Journal of Solid State Chemistry, 1997, 129, 341-345.	1.4	19
71	The farringtonite / Mg3(PO4)2-II transformation: A new curve for pressure calibration in piston-cylinder apparatus. European Journal of Mineralogy, 1996, 8, 349-354.	0.4	23
72	Bearthite, Ca2Al(PO4)2OH: stability, thermodynamic properties and phase relations. Contributions To Mineralogy and Petrology, 1995, 121, 258-266.	1.2	28

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73	Crystal and powder XRD data of Mg3(PO4)2-III: High-temperature and high-pressure form. Powder Diffraction, 1995, 10, 293-295.	0.4	5
74	Feâ€“Ni-rich Silicate Aggregates Formed after Sulfides in High-pressure Serpentinites. Journal of Petrology, 0, , .	1.1	1
75	Real-time monitoring of aqueous Hg2+ reduction dynamics by magnetite/iron metal composite powders synthesized hydrothermally. Water Science and Technology, 0, , .	1.2	1