Fabrice Brunet

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Heterogeneous porosity distribution in Portland cement exposed to CO2-rich fluids. Cement and Concrete Research, 2008, 38, 1038-1048.	4.6	209
3	Highâ€velocity frictional properties of a clayâ€bearing fault gouge and implications for earthquake mechanics. Journal of Geophysical Research, 2008, 113, .	3.3	177
4	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
5	Serpentinization of oceanic peridotites: 2. Kinetics and processes of San Carlos olivine hydrothermal alteration. Journal of Geophysical Research, 2012, 117, .	3.3	128
6	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
7	Evolution of the REE mineralogy in HP–LT metapelites of the Sebtide complex, Rif, Morocco: Monazite stability and geochronology. Lithos, 2006, 87, 214-234.	0.6	120
8	Deep-Focus Earthquake Analogs Recorded at High Pressure and Temperature in the Laboratory. Science, 2013, 341, 1377-1380.	6.0	120
9	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
10	Effect of carbonation on the hydro-mechanical properties of Portland cements. Cement and Concrete Research, 2009, 39, 1156-1163.	4.6	102
11	Nanodiamond nucleation below 2273K at 15GPa from carbons with different structural organizations. Carbon, 2007, 45, 636-648.	5.4	83
12	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
13	Enhanced Olivine Carbonation within a Basalt as Compared to Single-Phase Experiments: Reevaluating the Potential of CO ₂ Mineral Sequestration. Environmental Science & Technology, 2014, 48, 5512-5519.	4.6	70
14	Raman spectroscopic properties and Raman identification of CaSâ€MgSâ€MnSâ€FeSâ€Cr ₂ FeS ₄ sulfides in meteorites and reduced sulfurâ€rich systems. Meteoritics and Planetary Science, 2013, 48, 1415-1426.	0.7	68
15	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
16	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
17	Formation of CO2, H2 and condensed carbon from siderite dissolution in the 200–300°C range and at 50MPa. Geochimica Et Cosmochimica Acta, 2015, 154, 201-211.	1.6	65
18	Oxygen isotope heterogeneities and diffusion profile in composite metamorphic-magmatic garnets from the Pyrenees. American Mineralogist, 2005, 90, 463-472.	0.9	58

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19	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
20	SIMS analyses of oxygen isotopes: Matrix effects in Fe–Mg–Ca garnets. Chemical Geology, 2005, 223, 208-226.	1.4	56
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	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
23	Low-temperature Wollastonite Formed by Carbonate Reduction: a Marker of Serpentinite Redox Conditions. Journal of Petrology, 2012, 53, 159-176.	1.1	49
24	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
25	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
26	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
27	Changes on the nanostructure of cementitius calcium silicate hydrates (C–S–H) induced by aqueous carbonation. Journal of Materials Science, 2012, 47, 764-771.	1.7	40
28	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
29	High-purity hydrogen gas from the reaction between BOF steel slag and water in the 473–673ÂK range. International Journal of Hydrogen Energy, 2013, 38, 7382-7393.	3.8	34
30	Complete solid-solution between Na3Al2(PO4)3and Mg3Al2(SiO4)3garnets at high pressure. American Mineralogist, 2006, 91, 211-215.	0.9	33
31	Water diffusion-transport in a synthetic dunite: Consequences for oceanic peridotite serpentinization. Earth and Planetary Science Letters, 2014, 403, 263-272.	1.8	33
32	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
33	Experimental study and modeling of fluid reaction paths in the quartz–kyanite±muscovite–water system at 0.7GPa in the 350–550°C range: Implications for Al selective transfer during metamorphism. Geochimica Et Cosmochimica Acta, 2006, 70, 1772-1788.	1.6	31
34	A laboratory nanoseismological study on deep-focus earthquake micromechanics. Science Advances, 2017, 3, e1601896.	4.7	30
35	Bearthite, Ca2Al(PO4)2OH: stability, thermodynamic properties and phase relations. Contributions To Mineralogy and Petrology, 1995, 121, 258-266.	1.2	28
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	Role of iron content on serpentinite dehydration depth in subduction zones: Experiments and thermodynamic modeling. Lithos, 2016, 264, 441-452.	0.6	28
38	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
39	Electrical conductivity of polycrystalline Mg(OH)2 at 2ÂGPa: effect of grain boundary hydration–dehydration. Physics and Chemistry of Minerals, 2011, 38, 543-556.	0.3	25
40	In situ measurements of Li isotopes in foraminifera. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	23
41	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
42	H2 dynamics in the soil of a H2-emitting zone (São Francisco Basin, Brazil): Microbial uptake quantification and reactive transport modelling. Applied Geochemistry, 2020, 112, 104474.	1.4	22
43	Hydrogen production by hydrothermal oxidation of FeO under acidic conditions. International Journal of Hydrogen Energy, 2017, 42, 795-806.	3.8	21
44	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
45	Structure Cristalline de la Phase Haute Température et Haute Pression de Mg3(PO4)2. Journal of Solid State Chemistry, 1997, 129, 341-345.	1.4	19
46	Space and time distribution of subsurface H2 concentration in so-called "fairy circles― Insight from a conceptual 2-D transport model. Bulletin - Societie Geologique De France, 2020, 191, 13.	0.9	17
47	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
48	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
49	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
50	Experimental evidence of sixfold oxygen coordination for phosphorus. American Mineralogist, 2007, 92, 989-993.	0.9	12
51	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
52	Density profiles of pyrolite and MORB compositions across the 660Âkm seismic discontinuity. High Pressure Research, 2008, 28, 335-349.	0.4	11
53	Confirmation of octahedrally coordinated phosphorus in AlPO4 -containing stishovite by31 P NMR. European Journal of Mineralogy, 2009, 21, 667-671.	0.4	11
54	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

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55	Magnetic monitoring of hydrothermal magnetite nucleation-and-growth: Record of magnetic reversals. American Mineralogist, 2004, 88, 1385-1389.	0.9	9
56	Effect of incongruent dissolution on mineral solubility data derived from quench experiments. European Journal of Mineralogy, 2007, 19, 783-789.	0.4	8
57	Hydrothermal Valorization of Steel Slags—Part I: Coupled H2 Production and CO2 Mineral Sequestration. Frontiers in Energy Research, 2017, 5, .	1.2	8
58	Effect of gold and magnetite on the decomposition kinetics of formic acid at 200†°C under hydrothermal conditions. Chemical Geology, 2019, 507, 1-8.	1.4	8
59	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
60	Hydrothermal Steel Slag Valorization—Part II: Hydrogen and Nano-Magnetite Production. Frontiers in Earth Science, 2017, 5, .	0.8	7
61	Heat capacity of lazulite, MgAl2(PO4)2(OH)2, from 35 to 298 K and a (S–V) value for P2O5 to estimate phosphate entropy. Mineralogical Magazine, 2004, 68, 123-134.	0.6	6
62	A novel route for FePO4 olivine synthesis from sarcopside oxidation. Solid State Sciences, 2016, 62, 29-33.	1.5	6
63	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
64	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
65	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
66	Metamorphic and magmatic overprint of garnet pyroxenites from the Beni Bousera massif (northern) Tj ETQq0 0	0 ggBT /O	verlock 10 Tf
67	Polymorphism and thermochemistry of MgAlPO4O, a product of lazulite breakdown at high temperature. European Journal of Mineralogy, 2007, 19, 159-172.	0.4	3
68	Effect of Water Activity on Reaction Kinetics and Intergranular Transport: Insights from the Ca(OH)2 + MgCO3→ CaCO3 + Mg(OH)2Reaction at 1·8 GPa. Journal of Petrology, 201	6, 57 , 138	9-1408.
69	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
70	Oxidative decomposition products of synthetic NaFePO4 marićite: nano-textural and electrochemical characterization. European Journal of Mineralogy, 2019, 31, 837-842.	0.4	3
71	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
72	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

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73	Fe–Ni-rich Silicate Aggregates Formed after Sulfides in High-pressure Serpentinites. Journal of Petrology, 0, , .	1.1	1
74	Real-time monitoring of aqueous Hg2+ reduction dynamics by magnetite/iron metal composite powders synthesized hydrothermally. Water Science and Technology, 0, , .	1.2	1
75	Aqueous alteration and bioalteration of a synthetic enstatite chondrite. Meteoritics and Planetary Science, 2021, 56, 601-618.	0.7	0