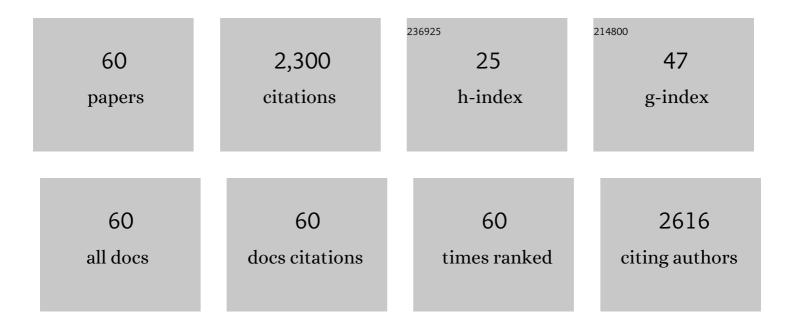
Bertrand Devouard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Magnetite from magnetotactic bacteria; size distributions and twinning. American Mineralogist, 1998, 83, 1387-1398.	1.9	338
2	Icosahedral packing of B12 icosahedra in boron suboxide (B6O). Nature, 1998, 391, 376-378.	27.8	242
3	Magnetite morphology and life on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13490-13495.	7.1	154
4	High-Pressure, High-Temperature Synthesis and Characterization of Boron Suboxide (B6O). Chemistry of Materials, 1998, 10, 1530-1537.	6.7	121
5	Pseudotachylyte (Frictionite) at the Base of the Arequipa Volcanic Landslide Deposit (Peru): Implications for Emplacement Mechanisms. Journal of Geology, 2000, 108, 601-611.	1.4	81
6	Aqueous alteration in the Northwest Africa 817 (NWA 817) Martian meteorite. Earth and Planetary Science Letters, 2002, 203, 431-444.	4.4	71
7	Crystal structure of kanemite, NaHSi ₂ O ₅ .3H ₂ O, from the Aris Phonolite, Namibia. American Mineralogist, 1999, 84, 1170-1175.	1.9	65
8	Correlation among Structure, Microstructure, and Electrochemical Properties of NiAl–CO ₃ Layered Double Hydroxide Thin Films. Journal of Physical Chemistry C, 2012, 116, 15646-15659.	3.1	64
9	Serpentinites from Central Cuba: petrology and HRTEM study. European Journal of Mineralogy, 2002, 14, 905-914.	1.3	62
10	Micro-drilling ID-TIMS U-Pb dating of single monazites: A new method to unravel complex poly-metamorphic evolutions. Application to the UHT granulites of Andriamena (North-Central) Tj ETQq0 0 0 rgB	T /®verloc	k 1600 Tf 50 37
11	Serpentinites in an Alpine convergent setting: Effects of metamorphic grade and deformation on microstructures. European Journal of Mineralogy, 2006, 18, 21-33.	1.3	60
12	Radiative heating of carbonaceous near-Earth objects as a cause of thermal metamorphism for CK chondrites. Icarus, 2012, 220, 65-73.	2.5	52
13	Atomistic calculations of structural and elastic properties of serpentine minerals: the case of lizardite. Physics and Chemistry of Minerals, 2006, 33, 266-275.	0.8	46
14	Geometrical Aspects of the Diffraction Space of Serpentine Rolled Microstructures: their Study by means of Electron Diffraction and Microscopy. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, 850-878.	0.3	43
15	Sectors in polygonal serpentine. A model based on dislocations. Physics and Chemistry of Minerals, 1994, 21, 330.	0.8	41
16	Nucleation and Growth of Icosahedral Boron Suboxide Clusters at High Pressure. Journal of Solid State Chemistry, 1999, 147, 281-290.	2.9	39
17	Separating Natural and Synthetic Rubies on the Basis of Trace-Element Chemistry. Gems & Gemology, 1998, 34, 80-101.	0.6	38
18	REE and actinide microdistribution in Sahara 97072 and ALHA77295 EH3 chondrites: A combined cosmochemical and petrologic investigation. Geochimica Et Cosmochimica Acta, 2011, 75, 3269-3289.	3.9	36

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19	Topology and crystal growth of natural chrysotile and polygonal serpentine. Journal of Crystal Growth, 1996, 166, 952-960.	1.5	35
20	Multiple Ionic-Plasmon Resonances in Naturally Occurring Multiwall Nanotubes: Infrared Spectra of Chrysotile Asbestos. Physical Review Letters, 2002, 89, 177401.	7.8	34
21	Rapid synthesis of Ce3+-doped YAG nanoparticles by a solvothermal method using metal carbonates as precursors. New Journal of Chemistry, 2012, 36, 2493.	2.8	33
22	RECONCILING THE ORBITAL AND PHYSICAL PROPERTIES OF THE MARTIAN MOONS. Astrophysical Journal, 2016, 828, 109.	4.5	33
23	Formation of U-depleted rhyolite from a basanite at El Hierro, Canary Islands. Contributions To Mineralogy and Petrology, 2013, 165, 601-622.	3.1	29
24	Northwest Africa 5790: Revisiting nakhlite petrogenesis. Geochimica Et Cosmochimica Acta, 2016, 190, 191-212.	3.9	28
25	MICROSTRUCTURES OF COMMON POLYGONAL SERPENTINES FROM AXIAL HRTEM IMAGING, ELECTRON DIFFRACTION, AND LATTICE-SIMULATION DATA. Canadian Mineralogist, 2005, 43, 513-542.	1.0	27
26	Relationship between nanostructure and optical absorption in fibrous pink opals from Mexico and Peru. European Journal of Mineralogy, 2004, 16, 743-751.	1.3	26
27	Axial diffraction of curved lattices: geometrical and numerical modeling. Application to chrysotile. European Journal of Mineralogy, 1995, 7, 835-846.	1.3	26
28	Rocklines as Cradles for Refractory Solids in the Protosolar Nebula. Astrophysical Journal, 2020, 901, 97.	4.5	26
29	The cosmochemical behavior of mercury. Earth and Planetary Science Letters, 1999, 171, 35-47.	4.4	25
30	Onion morphology and microstructure of polyhedral serpentine. American Mineralogist, 2007, 92, 687-690.	1.9	25
31	The Identification of Faceted Gemstones: From the Naked Eye to Laboratory Techniques. Elements, 2009, 5, 163-168.	0.5	25
32	The structure of Mn-rich tuperssuatsiaite: A palygorskite-related mineral. American Mineralogist, 2002, 87, 1458-1463.	1.9	24
33	Metamorphosed calciumâ€aluminumâ€rich inclusions in <scp>CK</scp> carbonaceous chondrites. Meteoritics and Planetary Science, 2014, 49, 419-452.	1.6	23
34	First evidence of synthetic polygonal serpentines. European Journal of Mineralogy, 1997, 9, 539-546.	1.3	21
35	Magnetic properties of tektites and other related impact glasses. Earth and Planetary Science Letters, 2015, 432, 381-390.	4.4	20
36	Chondrules in <scp>CK</scp> carbonaceous chondrites and thermal history of the <scp>CV</scp> – <scp>CK</scp> parent body. Meteoritics and Planetary Science, 2016, 51, 547-573.	1.6	20

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37	Formation and transformations of Fe-rich serpentines by asteroidal aqueous alteration processes: A nanoscale study of the Murray chondrite. Geochimica Et Cosmochimica Acta, 2015, 158, 162-178.	3.9	18
38	Surface vitrification caused by natural fires in Late Pleistocene wetlands of the Atacama Desert. Earth and Planetary Science Letters, 2017, 469, 15-26.	4.4	17
39	Pyroxene microstructure in the Northwest Africa 856 martian meteorite. Meteoritics and Planetary Science, 2004, 39, 711-722.	1.6	16
40	Sazhinite-(La), Na3LaSi6O15(H2O)2, a new mineral from the Aris phonolite, Namibia: Description and crystal structure. Mineralogical Magazine, 2006, 70, 405-418.	1.4	15
41	Geological setting of the lower Pleistocene fossil deposits of Chilhac (Haute-Loire, France). Quaternary International, 2010, 223-224, 107-115.	1.5	14
42	Impact glasses from Belize represent tektites from the Pleistocene Pantasma impact crater in Nicaragua. Communications Earth & Environment, 2021, 2, 94.	6.8	14
43	Lead isotopes behavior in the fumarolic environment of the Piton de la Fournaise volcano (Réunion) Tj ETQq1 1	0,784314 3.9	rgBT /Overl
44	The ungrouped chondrite El Médano 301 and its comparison with other reduced ordinary chondrites. Geochimica Et Cosmochimica Acta, 2017, 218, 98-113.	3.9	13
45	Pantasma: Evidence for a Pleistocene circa 14Âkm diameter impact crater in Nicaragua. Meteoritics and Planetary Science, 2019, 54, 880-901.	1.6	13
46	Evolution of product phase assemblages during thermal decomposition of muscovite under strong disequilibrium conditions. American Mineralogist, 2006, 91, 413-424.	1.9	12
47	New SIMS Procedures for the Characterization of a Complex Silicate Matrix, Na 3 (REE,Th,Ca,U)Si 6 O 15 تزاير 2.5H 2 O (Sazhinite), and Comparison with EMPA and SREF Results. Mikrochimica Acta, 2004, 145, 139-146.	5.0	8
48	Raman spectroscopy as suitable tool for the field study of recent volcanic environments. Journal of Raman Spectroscopy, 2016, 47, 740-742.	2.5	8
49	The lowâ€ŧemperature magnetic signature of Feâ€rich serpentine in CM2 chondrites: Comparison with terrestrial cronstedtite and evolution with the degree of alteration. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	7
50	Caleta el Cobre 022 Martian meteorite: Increasing nakhlite diversity. Meteoritics and Planetary Science, 2020, 55, 1539-1563.	1.6	7
51	Why Are Some Crystals Gem Quality? Crystal Growth Considerations On the "Gem Factor― Canadian Mineralogist, 2017, 55, 521-533.	1.0	6
52	Lasnierite, (Ca,Sr)(Mg,Fe)2Al(PO4)3, a new phosphate accompanying lazulite from Mt. Ibity, Madagascar: an example of structural characterization from dynamical refinement of precession electron diffraction data on submicrometre sample. European Journal of Mineralogy, 2019, 31, 379-388.	1.3	6
53	Fayalite oxidation processes in Obsidian Cliffs rhyolite flow, Oregon. American Mineralogist, 2015, 100, 1153-1164.	1.9	5
54	Solid Carbon Produced in an Inductively Coupled Plasma Torch with a Titan Like Atmosphere. International Journal of Aerospace Engineering, 2013, 2013, 1-8.	0.9	4

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55	A 650 km2 Miocene strewnfield of splash-form impact glasses in the Atacama Desert, Chile. Earth and Planetary Science Letters, 2021, 569, 117049.	4.4	4
56	Refractory inclusions as Type IA chondrule precursors: Constraints from melting experiments. Geochimica Et Cosmochimica Acta, 2022, 319, 30-55.	3.9	3
57	A <scp>TEM</scp> study of exsolution in Caâ€rich pyroxenes from the Paris and Renazzo chondrites: Determination of type I chondrule cooling rates. Meteoritics and Planetary Science, 2018, 53, 482-492.	1.6	2
58	The Famenin fall and other ordinary chondrites intermediate between H and L groups. Meteoritics and Planetary Science, 2022, 57, 1038-1059.	1.6	1
59	Widespread glasses generated by cometary fireballs during the late Pleistocene in the Atacama Desert, Chile: COMMENT. Geology, 2022, 50, e550-e550.	4.4	1
60	Incorporation of Zn in the destabilization products of muscovite at 1175 ÂC under disequilibrium conditions, and implications for heavy metal sequestration. American Mineralogist, 2013, 98, 932-945.	1.9	0