

Bertrand Devouard

List of Publications by Year in descending order

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60
papers

2,300
citations

236925

25
h-index

214800

47
g-index

60
all docs

60
docs citations

60
times ranked

2616
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractory inclusions as Type IA chondrule precursors: Constraints from melting experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 319, 30-55.	3.9	3
2	The Famenin fall and other ordinary chondrites intermediate between H and L groups. <i>Meteoritics and Planetary Science</i> , 2022, 57, 1038-1059.	1.6	1
3	Widespread glasses generated by cometary fireballs during the late Pleistocene in the Atacama Desert, Chile: COMMENT. <i>Geology</i> , 2022, 50, e550-e550.	4.4	1
4	Impact glasses from Belize represent tektites from the Pleistocene Pantasma impact crater in Nicaragua. <i>Communications Earth & Environment</i> , 2021, 2, 94.	6.8	14
5	A 650 km ² Miocene strewnfield of splash-form impact glasses in the Atacama Desert, Chile. <i>Earth and Planetary Science Letters</i> , 2021, 569, 117049.	4.4	4
6	Caleta el Cobre 022 Martian meteorite: Increasing nakhlite diversity. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1539-1563.	1.6	7
7	Rocklines as Cradles for Refractory Solids in the Protosolar Nebula. <i>Astrophysical Journal</i> , 2020, 901, 97.	4.5	26
8	Lasnierite, (Ca,Sr)(Mg,Fe) ₂ Al(PO ₄) 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. <i>European Journal of Mineralogy</i> , 2019, 31, 379-388.	1.3	6
9	Pantasma: Evidence for a Pleistocene circa 14 km diameter impact crater in Nicaragua. <i>Meteoritics and Planetary Science</i> , 2019, 54, 880-901.	1.6	13
10	A TEM study of exsolution in Ca-rich pyroxenes from the Paris and Renazzo chondrites: Determination of type I chondrule cooling rates. <i>Meteoritics and Planetary Science</i> , 2018, 53, 482-492.	1.6	2
11	Surface vitrification caused by natural fires in Late Pleistocene wetlands of the Atacama Desert. <i>Earth and Planetary Science Letters</i> , 2017, 469, 15-26.	4.4	17
12	The ungrouped chondrite El Mădano 301 and its comparison with other reduced ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 218, 98-113.	3.9	13
13	Why Are Some Crystals Gem Quality? Crystal Growth Considerations On the "Gem Factor". <i>Canadian Mineralogist</i> , 2017, 55, 521-533.	1.0	6
14	Raman spectroscopy as suitable tool for the field study of recent volcanic environments. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 740-742.	2.5	8
15	RECONCILING THE ORBITAL AND PHYSICAL PROPERTIES OF THE MARTIAN MOONS. <i>Astrophysical Journal</i> , 2016, 828, 109.	4.5	33
16	Northwest Africa 5790: Revisiting nakhlite petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 191-212.	3.9	28
17	Chondrules in CK carbonaceous chondrites and thermal history of the CV CK parent body. <i>Meteoritics and Planetary Science</i> , 2016, 51, 547-573.	1.6	20
18	Fayalite oxidation processes in Obsidian Cliffs rhyolite flow, Oregon. <i>American Mineralogist</i> , 2015, 100, 1153-1164.	1.9	5

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19	Formation and transformations of Fe-rich serpentines by asteroidal aqueous alteration processes: A nanoscale study of the Murray chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 162-178.	3.9	18
20	Magnetic properties of tektites and other related impact glasses. <i>Earth and Planetary Science Letters</i> , 2015, 432, 381-390.	4.4	20
21	Metamorphosed calcium–aluminum–rich inclusions in CK carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2014, 49, 419-452.	1.6	23
22	Formation of U-depleted rhyolite from a basanite at El Hierro, Canary Islands. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 601-622.	3.1	29
23	Lead isotopes behavior in the fumarolic environment of the Piton de la Fournaise volcano (Réunion). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 253, 1-13.	3.9	13
24	Solid Carbon Produced in an Inductively Coupled Plasma Torch with a Titan Like Atmosphere. <i>International Journal of Aerospace Engineering</i> , 2013, 2013, 1-8.	0.9	4
25	Incorporation of Zn in the destabilization products of muscovite at 1175 °C under disequilibrium conditions, and implications for heavy metal sequestration. <i>American Mineralogist</i> , 2013, 98, 932-945.	1.9	0
26	Rapid synthesis of Ce ³⁺ -doped YAG nanoparticles by a solvothermal method using metal carbonates as precursors. <i>New Journal of Chemistry</i> , 2012, 36, 2493.	2.8	33
27	Correlation among Structure, Microstructure, and Electrochemical Properties of NiAl ₂ CO ₃ Layered Double Hydroxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15646-15659.	3.1	64
28	The low-temperature magnetic signature of Fe-rich serpentine in CM2 chondrites: Comparison with terrestrial cronstedtite and evolution with the degree of alteration. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	7
29	Radiative heating of carbonaceous near-Earth objects as a cause of thermal metamorphism for CK chondrites. <i>Icarus</i> , 2012, 220, 65-73.	2.5	52
30	REE and actinide microdistribution in Sahara 97072 and ALHA77295 EH3 chondrites: A combined cosmochemical and petrologic investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3269-3289.	3.9	36
31	Geological setting of the lower Pleistocene fossil deposits of Chillac (Haute-Loire, France). <i>Quaternary International</i> , 2010, 223-224, 107-115.	1.5	14
32	The Identification of Faceted Gemstones: From the Naked Eye to Laboratory Techniques. <i>Elements</i> , 2009, 5, 163-168.	0.5	25
33	Onion morphology and microstructure of polyhedral serpentine. <i>American Mineralogist</i> , 2007, 92, 687-690.	1.9	25
34	Serpentinities in an Alpine convergent setting: Effects of metamorphic grade and deformation on microstructures. <i>European Journal of Mineralogy</i> , 2006, 18, 21-33.	1.3	60
35	Sazhinite-(La), Na ₃ LaSi ₆ O ₁₅ (H ₂ O) ₂ , a new mineral from the Aris phonolite, Namibia: Description and crystal structure. <i>Mineralogical Magazine</i> , 2006, 70, 405-418.	1.4	15
36	Atomistic calculations of structural and elastic properties of serpentine minerals: the case of lizardite. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 266-275.	0.8	46

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37	Evolution of product phase assemblages during thermal decomposition of muscovite under strong disequilibrium conditions. <i>American Mineralogist</i> , 2006, 91, 413-424.	1.9	12
38	MICROSTRUCTURES OF COMMON POLYGONAL SERPENTINES FROM AXIAL HRTEM IMAGING, ELECTRON DIFFRACTION, AND LATTICE-SIMULATION DATA. <i>Canadian Mineralogist</i> , 2005, 43, 513-542.	1.0	27
39	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) Madagascar. <i>Contributions to Mineralogy and Petrology</i> , 2006, 157, 1-10.	0.7843	10
40	New SIMS Procedures for the Characterization of a Complex Silicate Matrix, Na ₃ (REE,Th,Ca,U)Si ₆ O ₁₅ ·1/2H ₂ O (Sazhinite), and Comparison with EMPA and SREF Results. <i>Mikrochimica Acta</i> , 2004, 145, 139-146.	5.0	8
41	Relationship between nanostructure and optical absorption in fibrous pink opals from Mexico and Peru. <i>European Journal of Mineralogy</i> , 2004, 16, 743-751.	1.3	26
42	Pyroxene microstructure in the Northwest Africa 856 martian meteorite. <i>Meteoritics and Planetary Science</i> , 2004, 39, 711-722.	1.6	16
43	Multiple Ionic-Plasmon Resonances in Naturally Occurring Multiwall Nanotubes: Infrared Spectra of Chrysotile Asbestos. <i>Physical Review Letters</i> , 2002, 89, 177401.	7.8	34
44	Serpentinites from Central Cuba: petrology and HRTEM study. <i>European Journal of Mineralogy</i> , 2002, 14, 905-914.	1.3	62
45	Aqueous alteration in the Northwest Africa 817 (NWA 817) Martian meteorite. <i>Earth and Planetary Science Letters</i> , 2002, 203, 431-444.	4.4	71
46	The structure of Mn-rich taperssuatsiaite: A palygorskite-related mineral. <i>American Mineralogist</i> , 2002, 87, 1458-1463.	1.9	24
47	Magnetite morphology and life on Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13490-13495.	7.1	154
48	Pseudotachylyte (Frictionite) at the Base of the Arequipa Volcanic Landslide Deposit (Peru): Implications for Emplacement Mechanisms. <i>Journal of Geology</i> , 2000, 108, 601-611.	1.4	81
49	Nucleation and Growth of Icosahedral Boron Suboxide Clusters at High Pressure. <i>Journal of Solid State Chemistry</i> , 1999, 147, 281-290.	2.9	39
50	The cosmochemical behavior of mercury. <i>Earth and Planetary Science Letters</i> , 1999, 171, 35-47.	4.4	25
51	Crystal structure of kanemite, NaHSi ₂ O ₅ ·3H ₂ O, from the Aris Phonolite, Namibia. <i>American Mineralogist</i> , 1999, 84, 1170-1175.	1.9	65
52	Icosahedral packing of B12 icosahedra in boron suboxide (B ₆ O). <i>Nature</i> , 1998, 391, 376-378.	27.8	242
53	High-Pressure, High-Temperature Synthesis and Characterization of Boron Suboxide (B ₆ O). <i>Chemistry of Materials</i> , 1998, 10, 1530-1537.	6.7	121
54	Magnetite from magnetotactic bacteria; size distributions and twinning. <i>American Mineralogist</i> , 1998, 83, 1387-1398.	1.9	338

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55	Separating Natural and Synthetic Rubies on the Basis of Trace-Element Chemistry. <i>Gems & Gemology</i> , 1998, 34, 80-101.	0.6	38
56	First evidence of synthetic polygonal serpentines. <i>European Journal of Mineralogy</i> , 1997, 9, 539-546.	1.3	21
57	Geometrical Aspects of the Diffraction Space of Serpentine Rolled Microstructures: their Study by means of Electron Diffraction and Microscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1996, 52, 850-878.	0.3	43
58	Topology and crystal growth of natural chrysotile and polygonal serpentine. <i>Journal of Crystal Growth</i> , 1996, 166, 952-960.	1.5	35
59	Axial diffraction of curved lattices: geometrical and numerical modeling. Application to chrysotile. <i>European Journal of Mineralogy</i> , 1995, 7, 835-846.	1.3	26
60	Sectors in polygonal serpentine. A model based on dislocations. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 330.	0.8	41