

Daniel Vielzeuf

List of Publications by Year in descending order

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46
papers

5,816
citations

236925

25
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

3433
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of the fluid-absent melting relations in the pelitic system. Contributions To Mineralogy and Petrology, 1988, 98, 257-276.	3.1	1,019
2	Constraints on melting and magma production in the crust. Earth and Planetary Science Letters, 1987, 86, 287-306.	4.4	697
3	Partial melting of metagreywackes. Part I. Fluid-absent experiments and phase relationships. Contributions To Mineralogy and Petrology, 1994, 117, 375-393.	3.1	490
4	Melting and dissolution of subducting crust at high pressures: the key role of white mica. Earth and Planetary Science Letters, 2004, 228, 65-84.	4.4	380
5	Partial melting of metagreywackes, Part II. Compositions of minerals and melts. Contributions To Mineralogy and Petrology, 1997, 128, 176-196.	3.1	366
6	Melting relations in hydrous systems revisited: application to metapelites, metagreywackes and metabasalts. Contributions To Mineralogy and Petrology, 2001, 141, 251-267.	3.1	313
7	Experimental evidence of decompression melting during exhumation of subducted continental crust. Contributions To Mineralogy and Petrology, 2006, 152, 125-148.	3.1	240
8	Preservation of old U-Th-Pb ages in shielded monazite: example from the Beni Bousera Hercynian kinzigites (Morocco). Journal of Metamorphic Geology, 2000, 18, 335-342..	3.4	214
9	Granulites and related rocks in variscan median Europe: A dualistic interpretation. Tectonophysics, 1983, 93, 47-74.	2.2	193
10	Structural control of the chlorine content of OH-bearing silicates (micas and amphiboles). Geochimica Et Cosmochimica Acta, 1985, 49, 37-48.	3.9	186
11	Zoning of phosphorus in igneous olivine. Contributions To Mineralogy and Petrology, 2008, 155, 739-765.	3.1	175
12	Titanium in phengite: a geobarometer for high temperature eclogites. Contributions To Mineralogy and Petrology, 2010, 159, 1-24.	3.1	172
13	Crustal splitting and the emplacement of Pyrenean lherzolites and granulites. Earth and Planetary Science Letters, 1984, 67, 87-96.	4.4	153
14	The spinel and quartz associations in high grade xenoliths from Tallante (S.E. Spain) and their potential use in geothermometry and barometry. Contributions To Mineralogy and Petrology, 1983, 82, 301-311.	3.1	128
15	Granites, Granulites, and Crustal Differentiation. , 1990, , 59-85.		108
16	High-pressure granulites from the Sudetes (south-west Poland): evidence of crustal subduction and collisional thickening in the Variscan Belt. Journal of Metamorphic Geology, 1996, 14, 531-546.	3.4	100
17	Calcium diffusivity in alumino-silicate garnets: an experimental and ATEM study. Contributions To Mineralogy and Petrology, 2007, 154, 153-170.	3.1	78
18	Nano to macroscale biomineral architecture of red coral (Corallium rubrum). American Mineralogist, 2008, 93, 1799-1815.	1.9	78

#	ARTICLE	IF	CITATIONS
19	Raman characterization of synthetic magnesian calcites. <i>American Mineralogist</i> , 2016, 101, 2525-2538.	1.9	63
20	An improved experimental calibration of the olivine-spinel geothermometer. <i>Diqiu Huaxue</i> , 1995, 14, 68-77.	0.5	58
21	Oxygen isotope heterogeneities and diffusion profile in composite metamorphic-magmatic garnets from the Pyrenees. <i>American Mineralogist</i> , 2005, 90, 463-472.	1.9	58
22	SIMS analyses of oxygen isotopes: Matrix effects in Fe-Mg-Ca garnets. <i>Chemical Geology</i> , 2005, 223, 208-226.	3.3	56
23	Glaucophane-bearing assemblage overprinted by greenschist-facies metamorphism in the Variscan Kaczawa complex, Sudetes, Poland. <i>Journal of Metamorphic Geology</i> , 1990, 8, 345-355.	3.4	51
24	Les granulites de haute-pression d'Europe moyenne temoins d'une subduction eo-hercynienne; implications sur l'origine des groupes leptyno-amphiboliques. <i>Bulletin - Societe Geologique De France</i> , 1988, IV, 13-20.	2.2	47
25	Multilevel modular mesocrystalline organization in red coral. <i>American Mineralogist</i> , 2010, 95, 242-248.	1.9	47
26	Distribution of sulphur and magnesium in the red coral. <i>Chemical Geology</i> , 2013, 355, 13-27.	3.3	47
27	Mesoscale twinning and crystallographic registers in biominerals. <i>American Mineralogist</i> , 2011, 96, 1228-1237.	1.9	26
28	The coordination of sulfur in synthetic and biogenic Mg calcites: The red coral case. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 226-244.	3.9	26
29	Growth Kinetics and Distribution of Trace Elements in Precious Corals. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	24
30	Morphological analysis of olivine grains annealed in an iron-nickel matrix: Experimental constraints on the origin of pallasites and on the thermal history of their parent bodies. <i>Meteoritics and Planetary Science</i> , 2003, 38, 427-444.	1.6	23
31	Block-by-block and layer-by-layer growth modes in coral skeletons. <i>American Mineralogist</i> , 2015, 100, 681-695.	1.9	23
32	Experimental study of argon sorption in quartz: Evidence for argon incompatibility. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 533-542.	3.9	20
33	Ordered Misorientations and Preferential Directions of Growth in Mesocrystalline Red Coral Sclerites. <i>Crystal Growth and Design</i> , 2012, 12, 4805-4820.	3.0	19
34	Uphill diffusion, zero-flux planes and transient chemical solitary waves in garnet. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 683-702.	3.1	18
35	Transcurrent Crustal Thinning: A Mechanism for the Uplift of Deep Continental Crust / Upper Mantle Associations.. <i>Developments in Petrology</i> , 1984, 11, 347-359.	0.1	17
36	Geodynamic implications of granulitic rocks in the Hercynian belt. <i>Geological Society Special Publication</i> , 1989, 43, 343-348.	1.3	15

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37	An Experimental Determination of the Effect of Bulk Composition on Phase Relationships in Metasediments at Near-solidus Conditions. <i>Journal of Petrology</i> , 2009, 50, 909-931.	2.8	13
38	Reinvestigation of fayalite+anorthite=garnet. <i>Contributions To Mineralogy and Petrology</i> , 1992, 111, 260-263.	3.1	9
39	Thermally Induced Modifications and Phase Transformations of Red Coral Mg-Calcite Skeletons from Infrared Spectroscopy and High Resolution Synchrotron Powder Diffraction Analyses. <i>Crystal Growth and Design</i> , 2015, 15, 3690-3706.	3.0	9
40	Lead (Pb) profiles in red coral skeletons as high resolution records of pollution in the Mediterranean Sea. <i>Chemical Geology</i> , 2019, 525, 112-124.	3.3	6
41	Age, duration and mineral markers of magma interactions in the deep crust: an example from the Pyrenees. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	6
42	“Crustal splitting and the emplacement of Pyrenean lherzolites and granulites” A reply to M.W. Fischer. <i>Earth and Planetary Science Letters</i> , 1984, 70, 439-443.	4.4	4
43	Synchrotron high-resolution XRD and thermal expansion of synthetic Mg calcites. <i>Physics and Chemistry of Minerals</i> , 2020, 47, 1.	0.8	4
44	Crystallography of Complex Forms: The Case of Octocoral Sclerites. <i>Crystal Growth and Design</i> , 2017, 17, 5080-5097.	3.0	2
45	Chemical Indicator of Spinel During Partial Melting and Subsolidus Equilibration of Mantle Peridotite: Experimental Study and Application to Natural Rocks. <i>Acta Geologica Sinica</i> , 1995, 8, 420-435.	1.4	1
46	NATO granulite conference. <i>Eos</i> , 1989, 70, 752.	0.1	0