

Jean-Marc Montel

List of Publications by Year in descending order

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2601
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#	ARTICLE	IF	CITATIONS
1	Electron microprobe dating of monazite. <i>Chemical Geology</i> , 1996, 131, 37-53.	3.3	728
2	A model for monazite/melt equilibrium and application to the generation of granitic magmas. <i>Chemical Geology</i> , 1993, 110, 127-146.	3.3	426
3	Partial melting of metagreywackes, Part II. Compositions of minerals and melts. <i>Contributions To Mineralogy and Petrology</i> , 1997, 128, 176-196.	3.1	366
4	Experimental resetting of the U-Th-Pb systems in monazite. <i>Chemical Geology</i> , 2002, 191, 165-181.	3.3	274
5	Electron microprobe dating of monazites from high-grade gneisses and pegmatites of the Kerala Khondalite Belt, southern India. <i>Chemical Geology</i> , 1998, 146, 65-85.	3.3	215
6	Apatite solubility in peraluminous liquids: Experimental data and an extension of the Harrison-Watson model. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 3855-3861.	3.9	202
7	A developmental model of olivine morphology as a function of the cooling rate and the degree of undercooling. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 251-263.	3.1	199
8	Low-temperature alteration of monazite: Fluid mediated coupled dissolution-precipitation, irradiation damage, and disturbance of the U-Pb and Th-Pb chronometers. <i>Chemical Geology</i> , 2012, 330-331, 140-158.	3.3	163
9	Experimental determination of the solubility of Ce-monazite in SiO ₂ -Al ₂ O ₃ -K ₂ O-Na ₂ O melts at 800 °C, 2 kbar, under H ₂ O-saturated conditions. <i>Geology</i> , 1986, 14, 659.	4.4	132
10	Experimental determination of synthetic NdPO ₄ monazite end-member solubility in water from 21 °C to 300 °C: implications for rare earth element mobility in crustal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2207-2221.	3.9	130
11	Pb diffusion in monazite: An experimental study of interdiffusion. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2325-2336.	3.9	125
12	Fe isotope and trace element geochemistry of the Neoproterozoic syn-glacial Rapitan iron formation. <i>Earth and Planetary Science Letters</i> , 2011, 309, 100-112.	4.4	124
13	X-ray diffraction study of brabantite-monazite solid solutions. <i>Chemical Geology</i> , 2002, 191, 89-104.	3.3	111
14	Experimental determination of Thorium partitioning between monazite and xenotime using analytical electron microscopy and X-ray diffraction Rietveld analysis. <i>European Journal of Mineralogy</i> , 2002, 14, 869-878.	1.3	81
15	Pb diffusion in monazite: New constraints from the experimental study of interdiffusion. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4036-4043.	3.9	66
16	Synthesis and sintering of a monazite-brabantite solid solution ceramic for nuclear waste storage. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2489-2500.	4.0	49
17	Importance of late-magmatic and hydrothermal fluids on the Sm-Nd isotope mineral systematics of hypersolvus granites. <i>Chemical Geology</i> , 1998, 146, 187-203.	3.3	45
18	Minerals and design of new waste forms for conditioning nuclear waste. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 230-236.	1.2	37

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19	Electron microprobe dating of monazite from high-T shear zones in the São José de Campestre Massif, NE Brazil. <i>Gondwana Research</i> , 2006, 9, 441-455.	6.0	36
20	Multiphase melting, magma emplacement and P-T-time path in late-collisional context: the Velay example (Massif Central, France). <i>Bulletin - Societie Geologique De France</i> , 2015, 186, 93-116.	2.2	34
21	Geological context of the Boumnyebel talcschists (Cameroun): Inferences on the Pan-African Belt of Central Africa. <i>Comptes Rendus - Geoscience</i> , 2010, 342, 108-115.	1.2	33
22	Provenance of Cenozoic sedimentary rocks from the Sulaiman fold and thrust belt, Pakistan: implications for the palaeogeography of the Indus drainage system. <i>Journal of the Geological Society</i> , 2011, 168, 499-516.	2.1	33
23	Opening and resetting temperatures in heating geochronological systems. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 185-195.	3.1	31
24	Structural reworking and heat transfer related to the late-Panafrican Angavo shear zone of Madagascar. <i>Tectonophysics</i> , 2009, 477, 197-216.	2.2	26
25	U-Th-Pb dating of the Brossasco ultrahigh-pressure metagranite, Dora-Maira massif, western Alps. <i>European Journal of Mineralogy</i> , 1999, 11, 69-78.	1.3	24
26	Nano-petrographic investigation of a mafic xenolith (maar de Beaunit, Massif Central, France). <i>European Journal of Mineralogy</i> , 2001, 13, 27-40.	1.3	22
27	The giant monazite crystals from Manangotry (Madagascar). <i>Chemical Geology</i> , 2018, 484, 36-50.	3.3	17
28	Radiation damage in diopside and calcite crystals from uranothorianite inclusions. <i>Chemical Geology</i> , 2009, 261, 318-332.	3.3	16
29	Electron-microprobe dating of monazite: The story. <i>Chemical Geology</i> , 2018, 484, 4-15.	3.3	15
30	Monazite Alteration in H ₂ O ± HCl ± NaCl ± CaCl ₂ Fluids at 150 °C and psat: Implications for Uranium Deposits. <i>Minerals (Basel, Switzerland)</i> , 2015, 5, 693-706.	2.0	13
31	Fracturing around radioactive minerals: elastic model and applications. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 635-645.	0.8	9
32	The Ianapera-Ampanihy Suture, SW Madagascar: A major tectonic boundary on the eastern margin of the Mozambique belt. <i>Journal of African Earth Sciences</i> , 2014, 94, 31-44.	2.0	7
33	Solubility of Monazite-Cheralite and Xenotime in Granitic Melts, and Experimental Evidence of Liquid-Liquid Immiscibility in Concentrating REE. <i>Journal of Petrology</i> , 2021, 62, .	2.8	5
34	Educating the Resource Geologist of the Future: Between Observation and Imagination. <i>Elements</i> , 2017, 13, 331-336.	0.5	2