

Marie-Christine Boiron

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	LA-ICP-MS analyses of minor and trace elements and bulk Ge isotopes in zoned Ge-rich sphalerites from the Noailhac " Saint-Salvy deposit (France): Insights into incorporation mechanisms and ore deposition processes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 518-540.	3.9	222
2	Origin of uranium deposits revealed by their rare earth element signature. <i>Terra Nova</i> , 2011, 23, 264-269.	2.1	147
3	Giant uranium deposits formed from exceptionally uranium-rich acidic brines. <i>Nature Geoscience</i> , 2012, 5, 142-146.	12.9	107
4	Sulfur radical species form gold deposits on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13484-13489.	7.1	107
5	An evaporated seawater origin for the ore-forming brines in unconformity-related uranium deposits (Athabasca Basin, Canada): Cl/Br and $\delta^{37}\text{Cl}$ analysis of fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2792-2810.	3.9	104
6	Determination of Chlorinity in Aqueous Fluids Using Raman Spectroscopy of the Stretching Band of Water at Room Temperature: Application to Fluid Inclusions. <i>Applied Spectroscopy</i> , 2002, 56, 99-106.	2.2	99
7	Fluid fractionation of tungsten during granite " pegmatite differentiation and the metal source of peribatholithic W quartz veins: Evidence from the Karagwe-Ankole Belt (Rwanda). <i>Geochimica Et Cosmochimica Acta</i> , 2016, 175, 299-318.	3.9	98
8	Mixing of metamorphic and surficial fluids during the uplift of the Hercynian upper crust: consequences for gold deposition. <i>Chemical Geology</i> , 2003, 194, 119-141.	3.3	95
9	Distribution and oxidation state of Ge, Cu and Fe in sphalerite by $\mu\text{-XRF}$ and K-edge $\mu\text{-XANES}$: insights into Ge incorporation, partitioning and isotopic fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 298-314.	3.9	92
10	Paleo-fluid composition determined from individual fluid inclusions by Raman and LIBS: Application to mid-proterozoic evaporitic Na " Ca brines (Alligator Rivers Uranium Field, northern territories) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37</i>	3.9	91
11	Advances in lithium analysis in solids by means of laser-induced breakdown spectroscopy: an exploratory study. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1401-1407.	3.9	67
12	Migration of brines in the basement rocks of the Athabasca Basin through microfracture networks (P-Patch U deposit, Canada). <i>Lithos</i> , 2010, 115, 121-136.	1.4	66
13	Evidence for Li-rich brines and early magmatic fluid-rock interaction in the Larderello geothermal system. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1083-1099.	3.9	62
14	Metal-rich fluid inclusions provide new insights into unconformity-related U deposits (Athabasca) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2</i>	4.1	62
15	Determinations of water, hydrates and pH in fluid inclusions by micro-Raman spectrometry. <i>European Journal of Mineralogy</i> , 1992, 4, 885-894.	1.3	61
16	A major Late Jurassic fluid event at the basin/basement unconformity in western France: $^{40}\text{Ar}/^{39}\text{Ar}$ and ^{36}Ar dating, fluid chemistry, and related geodynamic context. <i>Chemical Geology</i> , 2012, 322-323, 99-120.	3.3	60
17	Penetration of surface-evaporated brines into the Proterozoic basement and deposition of Co and Ag at Bou Azzer (Morocco): Evidence from fluid inclusions. <i>Journal of African Earth Sciences</i> , 2005, 41, 25-39.	2.0	55
18	Palaeofluid chemistry of a single fluid event: a bulk and in-situ multi-technique analysis (LIBS, Raman) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2</i>	3.3	53

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19	The nature and partitioning of invisible gold in the pyrite-fluid system. <i>Ore Geology Reviews</i> , 2019, 109, 545-563.	2.7	53
20	Determination of Cl and Br concentrations in individual fluid inclusions by combining microthermometry and LA-ICPMS analysis: Implications for the origin of salinity in crustal fluids. <i>Chemical Geology</i> , 2012, 330-331, 197-206.	3.3	48
21	Conditions of gold-bearing arsenopyrite crystallization in the Villeranges Basin, Marche-Combrailles shear zone, France; a mineralogical and fluid inclusion study. <i>Economic Geology</i> , 1989, 84, 1340-1362.	3.8	46
22	Microfracturing and fluid mixing in granites: W (Sn) ore deposition at Vaulry (NW French Massif) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	46
23	Reconstruction of low temperature (100°C) burial in sedimentary basins: A comparison of geothermometer in the intracontinental Paris Basin. <i>Marine and Petroleum Geology</i> , 2014, 53, 71-87.	3.3	46
24	Determination of ions in individual fluid inclusions by laser ablation optical emission spectroscopy: development and applications to natural fluid inclusions. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 913-922.	3.0	45
25	<i>In Situ</i> Quantitative Measurement of Rare Earth Elements in Uranium Oxides by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 277-296.	3.1	45
26	Temperature of paleo- to modern self-sealing within a continental rift basin: The fluid inclusion data (Soultz-sous-Forêts, Rhine graben, France). <i>European Journal of Mineralogy</i> , 1996, 8, 1065-1080.	1.3	45
27	From evaporated seawater to uranium-mineralizing brines: Isotopic and trace element study of quartz-dolomite veins in the Athabasca system. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 113, 38-59.	3.9	44
28	Origin, ore forming fluid evolution and timing of the Logros (W) ore deposits (Central Iberian) Tj ETQq0 0 0 rgBT /Overlock 10	2.7	44
29	Improvement of the determination of element concentrations in quartz-hosted fluid inclusions by LA-ICP-MS and Pitzer thermodynamic modeling of ice melting temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 90, 110-125.	3.9	41
30	A combined in situ oxygen, silicon isotopic and fluid inclusion study of a chert sample from Onverwacht Group (3.35Ga, South Africa): New constraints on fluid circulation. <i>Chemical Geology</i> , 2011, 286, 59-59.	3.3	40
31	Revealing the Chemical Form of Invisible Gold in Natural Arsenian Pyrite and Arsenopyrite with High Energy-Resolution X-ray Absorption Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1905-1914.	2.7	39
32	Boiling and fluid mixing in the chlorite zone of the Larderello geothermal system. <i>Chemical Geology</i> , 1999, 154, 237-256.	3.3	38
33	Geometry and P-T-X conditions of microfissural ore fluid migration: the Mokrsko gold deposit (Bohemia). <i>Chemical Geology</i> , 2001, 173, 207-225.	3.3	38
34	Formation of U-rich mineralizing fluids through basinal brine migration within basement-hosted shear zones: A large-scale study of the fluid chemistry around the unconformity-related Cigar Lake U deposit (Saskatchewan, Canada). <i>Chemical Geology</i> , 2019, 508, 116-143.	3.3	37
35	Dating multistage paleofluid percolations: A K-Ar and $^{18}\text{O}/^{16}\text{O}$ study of fracture illites from altered Hercynian plutonites at the basement/cover interface (Poitou High, France). <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2529-2542.	3.9	36
36	Basinal Brines at the Origin of the Imiter Ag-Hg Deposit (Anti-Atlas, Morocco): Evidence from LA-ICP-MS Data on Fluid Inclusions, Halogen Signatures, and Stable Isotopes (H, C, O). <i>Economic Geology</i> , 2016, 111, 1753-1781.	3.8	36

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37	Detailed determination of palaeofluid chemistry: an integrated study of sulphate-volatile rich brines and aquo-carbonic fluids in quartz veins from Ouro Fino (Brazil). <i>Chemical Geology</i> , 1999, 154, 179-192.	3.3	34
38	Brine-rock interaction in the Athabasca basement (McArthur River U deposit, Canada): consequences for fluid chemistry and uranium uptake. <i>Terra Nova</i> , 2010, 22, no-no.	2.1	32
39	The granite hosted gold deposit of Moulin de Chizé (Saint-Yrieix district, Massif Central, France): petrographic, structural, fluid inclusion and oxygen isotope constraints. <i>Mineralium Deposita</i> , 2004, 39, 265-281.	4.1	31
40	Impact of basin burial and exhumation on Jurassic carbonates diagenesis on both sides of a thick clay barrier (Paris Basin, NE France). <i>Marine and Petroleum Geology</i> , 2014, 53, 44-70.	3.3	31
41	Multistage crack seal vein and hydrothermal Ni enrichment in serpentinized ultramafic rocks (Koniambo massif, New Caledonia). <i>Mineralium Deposita</i> , 2017, 52, 945-960.	4.1	28
42	Incipient Wolframite Deposition at Panasqueira (Portugal): W-Rich Rutile and Tourmaline Compositions as Proxies for the Early Fluid Composition. <i>Economic Geology</i> , 2021, 116, 123-146.	3.8	26
43	Giant quartz vein formation and high-elevation meteoric fluid infiltration into the South Armorican Shear Zone: geological, fluid inclusion and stable isotope evidence. <i>Journal of the Geological Society</i> , 2012, 169, 17-27.	2.1	25
44	Downward penetration and mixing of sedimentary brines and dilute hot waters at 5 km depth in the granite basement at Soultz-sous-Forêts (Rhine graben, France). <i>Comptes Rendus - Geoscience</i> , 2010, 342, 560-565.	1.2	23
45	Hypersaline fluids generated by high-grade metamorphism of evaporites: fluid inclusion study of uranium occurrences in the Western Zambian Copperbelt. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	23
46	Poultry litter ash characterisation and recovery. <i>Waste Management</i> , 2020, 111, 10-21.	7.4	22
47	Reconstructing fluid-flow events in Lower-Triassic sandstones of the eastern Paris Basin by elemental tracing and isotopic dating of nanometric illite crystals. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 157-184.	3.9	21
48	P-V-T-X-fO ₂ evolution from wolframite to sulphide depositional stages in intragranitic W-veins. An example from the Spanish Central System. <i>European Journal of Mineralogy</i> , 1995, 7, 675-688.	1.3	21
49	Active contact metamorphism and CO ₂ -CH ₄ fluid production in the Larderello geothermal field (Italy) at depths between 2.3 and 4 km. <i>Chemical Geology</i> , 2007, 237, 303-328.	3.3	20
50	Optimization of micro-Laser Induced Breakdown Spectroscopy analysis and signal processing. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1109-1116.	2.9	18
51	Hot Fluid Flows Around A Major Fault Identified By Paleothermometric Studies (Tim Mersoor Basin,) <i>TJ ETQq1 1 0.784314 rgBT /Overl</i>	1.6	18
52	C-O-H-N fluids circulations and graphite precipitation in reactivated Hudsonian shear zones during basement uplift of the Wollaston-Mudjatik Transition Zone: Example of the Cigar Lake U deposit. <i>Lithos</i> , 2017, 294-295, 222-245.	1.4	18
53	Mineralogy and ore fluid chemistry of the Roc Blanc Ag deposit, Jebilet Hercynian massif, Morocco. <i>Journal of African Earth Sciences</i> , 2017, 127, 175-193.	2.0	18
54	Germanium Crystal Chemistry in Cu-Bearing Sulfides from Micro-XRF Mapping and Micro-XANES Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 227.	2.0	17

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55	Variscan Sb-Au mineralization in Central Brittany (France): A new metallogenic model derived from the Le Semnon district. <i>Ore Geology Reviews</i> , 2018, 97, 109-142.	2.7	16
56	Brines related to Ag deposition in the Zgounder silver deposit (Anti-Atlas, Morocco). <i>European Journal of Mineralogy</i> , 1998, 10, 1201-1214.	1.3	16
57	Syntectonic fluids redistribution and circulation coupled to quartz recrystallization in the ductile crust (Naxos Island, Cyclades, Greece). <i>Journal of Geodynamics</i> , 2016, 101, 129-141.	1.6	14
58	Fluids preserved in variably altered graphitic pelitic schists in the Dufferin Lake Zone, south-central Athabasca Basin, Canada: implications for graphite loss and uranium deposition. <i>Mineralium Deposita</i> , 2016, 51, 619-636.	4.1	14
59	Investigation of Ge and Ga exchange behaviour and Ge isotopic fractionation during subduction zone metamorphism. <i>Chemical Geology</i> , 2017, 449, 165-181.	3.3	14
60	Nature and Origin of Mineralizing Fluids in Hyperextensional Systems: The Case of Cretaceous Mg Metasomatism in the Pyrenees. <i>Geofluids</i> , 2019, 2019, 1-18.	0.7	14
61	High pressure and temperatures during the early stages of tungsten deposition at Panasqueira revealed by fluid inclusions in topaz. <i>Ore Geology Reviews</i> , 2020, 126, 103741.	2.7	12
62	Evolution of fluids associated with metasedimentary sequences from Chaves (North Portugal). <i>Chemical Geology</i> , 2002, 190, 273-289.	3.3	11
63	Pargasite in fluid inclusions of mantle xenoliths from northeast Australia (Mt. Quincan): evidence of interaction with asthenospheric fluid. <i>Chemical Geology</i> , 2019, 508, 182-196.	3.3	11
64	Geochronological and thermometric evidence of unusually hot fluids in an Alpine fissure of Lauzière granite (Belledonne, Western Alps). <i>Solid Earth</i> , 2019, 10, 211-223.	2.8	11
65	Multistage development of a hydrothermal W deposit during the Variscan late-orogenic evolution: the Puy-les-Vignes breccia pipe (Massif Central, France). <i>Bulletin - Societe Geologique De France</i> , 2021, 192, 33.	2.2	10
66	Evolution of porewater composition through time in limestone aquifers: Salinity and D/H of fluid inclusion water in authigenic minerals (Jurassic of the eastern Paris Basin, France). <i>Chemical Geology</i> , 2015, 417, 210-227.	3.3	8
67	Direct Observation of Boro-Aluminosilicate Melt Compositions: Insights From Raman Spectroscopy of Melt Inclusions In Pegmatitic Tourmaline of the Gatumba-Gitarama Area (Rwanda). <i>Canadian Mineralogist</i> , 2017, 55, 377-397.	1.0	8
68	Evaluation of the petrogenetic significance of melt inclusions in pegmatitic schorl-dravite from graphic tourmaline-quartz assemblages: Application of LA-ICP-QMS analyses and volume ratio calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 308-335.	3.9	8
69	Evaporitic brines and copper-sulphide ore genesis at Jbel Haïmer (Central Jebilet, Morocco). <i>Ore Geology Reviews</i> , 2021, 129, 103920.	2.7	7
70	Conditioning of poultry manure ash for subsequent phosphorous separation and assessment for a process design. <i>Sustainable Materials and Technologies</i> , 2022, 31, e00377.	3.3	6
71	Distribution of trace elements in willemite from the Belgium non-sulphide deposits. <i>European Journal of Mineralogy</i> , 2019, 31, 983-997.	1.3	5
72	Tracing metallic pre-concentrations in the Limousin ophiolite-derived rocks and Variscan granites (French Massif Central). <i>Lithos</i> , 2020, 356-357, 105345.	1.4	5

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73	Fluid-rock interactions along detachment faults during continental rifting and mantle exhumation: the case of the Urdach lherzolite body (North Pyrenees). <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	5
74	Metamorphic brines and no surficial fluids trapped in the detachment footwall of a Metamorphic Core Complex (Nevado-Filábride units, Betics, Spain). <i>Tectonophysics</i> , 2018, 727, 56-72.	2.2	4
75	Lithium Behaviour and Isotope Fractionation During Fluid-Rock Interactions in Variscan Oceanic Suture Zones: Limousin Ophiolite and Ile de Groix High-pressure Terrane (France). <i>Journal of Petrology</i> , 2019, 60, 1963-1990.	2.8	4
76	Percolation of diagenetic fluids in the Archaean basement of the Franceville basin. <i>Comptes Rendus - Geoscience</i> , 2014, 346, 13-19.	1.2	1
77	Evaporitic brines and copper-sulphide ore genesis at Jbel Haÿmer (Central Jebilet, Morocco): A reply. <i>Ore Geology Reviews</i> , 2021, 140, 104409.	2.7	1
78	Origin of ⁸⁷ Sr enrichment in calcite cements in Jurassic limestones (Eastern Paris Basin, France). <i>Applied Geochemistry</i> , 2021, 136, 105131.	3.0	1
79	A multi-isotope study (Fe, Ge, O) of hydrothermal alteration in the Limousin ophiolite (French Massif) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	0