

Marie-Christine Boiron

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Evaporitic brines and copper-sulphide ore genesis at Jbel Haÿmer (Central Jebilet, Morocco). <i>Ore Geology Reviews</i> , 2021, 129, 103920. | 2.7 | 7 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | A multi-isotope study (Fe, Ge, O) of hydrothermal alteration in the Limousin ophiolite (French Massif) Tj ETQq0 0 0 rrgBT /Overlock 10 Tf | 1.4 | 0 |
| 11 | Poultry litter ash characterisation and recovery. <i>Waste Management</i> , 2020, 111, 10-21. | 7.4 | 22 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | The nature and partitioning of invisible gold in the pyrite-fluid system. <i>Ore Geology Reviews</i> , 2019, 109, 545-563. | 2.7 | 53 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Hot Fluid Flows Around A Major Fault Identified By Paleothermometric Studies (Tim Mersoñ Basin,) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> | 1.6 | 18 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Distribution and oxidation state of Ge, Cu and Fe in sphalerite by ^{113}Ge -XRF and K-edge ^{113}Ge -XANES: insights into Ge incorporation, partitioning and isotopic fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 298-314. | 3.9 | 92 |
| 35 | 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 |
| 36 | Origin, ore forming fluid evolution and timing of the Logrosñn Sn (W) ore deposits (Central Iberian) <i>Tj ETQq0 0.0 rgBT /Overlock</i> | 2.7 | 44 |

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|----|--|------|-----------|
| 37 | Metal-rich fluid inclusions provide new insights into unconformity-related U deposits (Athabasca) Tj ETQq1 1 0.784314 rgBT /Overlock | 4.1 | 62 |
| 38 | Sulfur radical species form gold deposits on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13484-13489. | 7.1 | 107 |
| 39 | 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). Chemical Geology, 2015, 417, 210-227. | 3.3 | 8 |
| 40 | Impact of basin burial and exhumation on Jurassic carbonates diagenesis on both sides of a thick clay barrier (Paris Basin, NE France). Marine and Petroleum Geology, 2014, 53, 44-70. | 3.3 | 31 |
| 41 | Hypersaline fluids generated by high-grade metamorphism of evaporites: fluid inclusion study of uranium occurrences in the Western Zambian Copperbelt. Contributions To Mineralogy and Petrology, 2014, 167, 1. | 3.1 | 23 |
| 42 | 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. Geochimica Et Cosmochimica Acta, 2014, 126, 518-540. | 3.9 | 222 |
| 43 | Reconstruction of low temperature (<100°C) burial in sedimentary basins: A comparison of geothermometer in the intracontinental Paris Basin. Marine and Petroleum Geology, 2014, 53, 71-87. | 3.3 | 46 |
| 44 | Percolation of diagenetic fluids in the Archaean basement of the Franceville basin. Comptes Rendus - Geoscience, 2014, 346, 13-19. | 1.2 | 1 |
| 45 | <i>In Situ</i> Quantitative Measurement of Rare Earth Elements in Uranium Oxides by Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Geostandards and Geoanalytical Research, 2013, 37, 277-296. | 3.1 | 45 |
| 46 | From evaporated seawater to uranium-mineralizing brines: Isotopic and trace element study of quartz-dolomite veins in the Athabasca system. Geochimica Et Cosmochimica Acta, 2013, 113, 38-59. | 3.9 | 44 |
| 47 | Giant quartz vein formation and high-elevation meteoric fluid infiltration into the South Armorian Shear Zone: geological, fluid inclusion and stable isotope evidence. Journal of the Geological Society, 2012, 169, 17-27. | 2.1 | 25 |
| 48 | A major Late Jurassic fluid event at the basin/basement unconformity in western France: ⁴⁰ Ar/ ³⁹ Ar and ⁴⁰ Ar dating, fluid chemistry, and related geodynamic context. Chemical Geology, 2012, 322-323, 99-120. | 3.3 | 60 |
| 49 | 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. Chemical Geology, 2012, 330-331, 197-206. | 3.3 | 48 |
| 50 | Giant uranium deposits formed from exceptionally uranium-rich acidic brines. Nature Geoscience, 2012, 5, 142-146. | 12.9 | 107 |
| 51 | Improvement of the determination of element concentrations in quartz-hosted fluid inclusions by LA-ICP-MS and Pitzer thermodynamic modeling of ice melting temperature. Geochimica Et Cosmochimica Acta, 2012, 90, 110-125. | 3.9 | 41 |
| 52 | 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. Chemical Geology, 2011, 286, 59-59. | 3.3 | 40 |
| 53 | An evaporated seawater origin for the ore-forming brines in unconformity-related uranium deposits (Athabasca Basin, Canada): Cl/Br and ³⁷ Cl analysis of fluid inclusions. Geochimica Et Cosmochimica Acta, 2011, 75, 2792-2810. | 3.9 | 104 |
| 54 | Origin of uranium deposits revealed by their rare earth element signature. Terra Nova, 2011, 23, 264-269. | 2.1 | 147 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Downward penetration and mixing of sedimentary brines and dilute hot waters at 5â€¦km depth in the granite basement at Soultz-sous-ForÃ¢ts (Rhine graben, France). <i>Comptes Rendus - Geoscience</i> , 2010, 342, 560-565. | 1.2 | 23 |
| 58 | 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 |
| 59 | Active contact metamorphism and CO ₂ â€“CH ₄ fluid production in the Larderello geothermal field (Italy) at depths between 2.3 and 4Åkm. <i>Chemical Geology</i> , 2007, 237, 303-328. | 3.3 | 20 |
| 60 | Paleo-fluid composition determined from individual fluid inclusions by Raman and LIBS: Application to mid-proterozoic evaporitic Naâ€“Ca brines (Alligator Rivers Uranium Field, northern territories) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 53</i> | 3.3 | 11 |
| 61 | 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 |
| 62 | The granite hosted gold deposit of Moulin de ChÃ¼1/2ni (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 |
| 63 | Dating multistage paleofluid percolations: A K-Ar and 18O/16O 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Palaeofluid chemistry of a single fluid event: a bulk and in-situ multi-technique analysis (LIBS, Raman) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 53</i> | 3.3 | 53 |
| 68 | Evolution of fluids associated with metasedimentary sequences from Chaves (North Portugal). <i>Chemical Geology</i> , 2002, 190, 273-289. | 3.3 | 11 |
| 69 | Geometry and Pâ€“Vâ€“Tâ€“X conditions of microfissural ore fluid migration: the Mokrsko gold deposit (Bohemia). <i>Chemical Geology</i> , 2001, 173, 207-225. | 3.3 | 38 |
| 70 | Microfracturing and fluid mixing in granites: Wâ€“(Sn) ore deposition at Vaulry (NW French Massif) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 53</i> | 2.2 | 46 |
| 71 | 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 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Boiling and fluid mixing in the chlorite zone of the Larderello geothermal system. <i>Chemical Geology</i> , 1999, 154, 237-256. | 3.3 | 38 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |