

# Christophe Monnin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6866280/publications.pdf>

Version: 2024-02-01

66  
papers

2,679  
citations

159585

30  
h-index

189892

50  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2585  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Characterization of the submarine disposal of a Bayer effluent (Gardanne alumina plant, southern) Tj ETQq1 1 0.784314 rgBT /Overlook<br>outfall. Chemosphere, 2021, 263, 127695.  | 8.2 | 6         |
| 2  | Alkalicella caledoniensis gen. nov., sp. nov., a novel alkaliphilic anaerobic bacterium isolated from La Crouen™ alkaline thermal spring, New Caledonia. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .                                     | 1.7 | 10        |
| 3  | Prokaryotic Diversity and Hydrogenotrophic Methanogenesis in an Alkaline Spring (La Crouen, New) Tj ETQq1 1 0.784314 rgBT /Overlook   | 3.6 | 5         |
| 4  | The Chemistry of Hyperalkaline Springs in Serpentinizing Environments: 1. The Composition of Free Gases in New Caledonia Compared to Other Springs Worldwide. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006243.                                  | 3.0 | 10        |
| 5  | Characterization of the submarine disposal of a Bayer effluent (Gardanne alumina plant, southern) Tj ETQq1 1 0.784314 rgBT /Overlook<br>concretions formed by its discharge in the Mediterranean Sea. Environmental Advances, 2021, 5, 100087.                              | 4.8 | 1         |
| 6  | The concentration of organic compounds in high-pH waters of serpentinizing environments determined by 1H NMR: continental sites (Oman, Liguria, New Caledonia, Portugal) and a marine environment (Marianna mud volcanoes: IODP Exp 366, ODP Legs 125 and 195). , 2021, , . |     | 0         |
| 7  | Chapter 9 Mineral resources and prospectivity of non-ultramafic rocks of New Caledonia. Geological Society Memoir, 2020, 51, 215-245.   | 1.7 | 10        |
| 8  | New Insights on Trace Metals Behavior in the Industrial Impacted Submarine Cassidaigne Canyon. , 2020, , .  |     | 0         |
| 9  | Using $\delta^{26}\text{Ra}$ and $\delta^{228}\text{Ra}$ isotopes to distinguish water mass distribution in the Canadian Arctic Archipelago. Biogeosciences, 2020, 17, 4937-4959.   | 3.3 | 5         |
| 10 | Temporal variability of lagoon sea water exchange and seawater circulation through a Mediterranean barrier beach. Limnology and Oceanography, 2019, 64, 2059-2080.  | 3.1 | 20        |
| 11 | Abiogenic formation of $\text{H}_2$ , light hydrocarbons and other short-chain organic compounds within the serpentinite mud volcanoes of the Marianna Trench. E3S Web of Conferences, 2019, 98, 02011.   | 0.5 | 1         |
| 12 | Freshening of a Coastal Karst Aquifer Revealed by the Temporal Changes in a Spring Water Composition (La Palme, Southern France). Hydrology, 2019, 6, 45.   | 3.0 | 6         |
| 13 | Heat flow, morphology, pore fluids and hydrothermal circulation in a typical Mid-Atlantic Ridge flank near Oceanographer Fracture Zone. Earth and Planetary Science Letters, 2018, 482, 423-433.  | 4.4 | 17        |
| 14 | A comparison between water circulation and terrestrially-driven dissolved silica fluxes to the Mediterranean Sea traced using radium isotopes. Geochimica Et Cosmochimica Acta, 2018, 238, 496-515.   | 3.9 | 35        |
| 15 | Mineralizing Filamentous Bacteria from the Prony Bay Hydrothermal Field Give New Insights into the Functioning of Serpentinization-Based Subseafloor Ecosystems. Frontiers in Microbiology, 2017, 8, 57.  | 3.5 | 40        |
| 16 | Metagenomic and PCR-Based Diversity Surveys of [FeFe]-Hydrogenases Combined with Isolation of Alkaliphilic Hydrogen-Producing Bacteria from the Serpentinite-Hosted Prony Hydrothermal Field, New Caledonia. Frontiers in Microbiology, 2016, 7, 1301.                      | 3.5 | 24        |
| 17 | A high resolution and quasi-zonal transect of dissolved Ba in the Mediterranean Sea. Marine Chemistry, 2016, 178, 1-7.  | 2.3 | 14        |
| 18 | Microbial diversity in a submarine carbonate edifice from the serpentinizing hydrothermal system of the Prony Bay (New Caledonia) over a 6-year period. Frontiers in Microbiology, 2015, 6, 857.  | 3.5 | 53        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Burial Diagenesis of the Eocene Sobrarbe Delta (Ainsa Basin, Spain) Inferred From Dolomitic Concretions. <i>Journal of Sedimentary Research</i> , 2015, 85, 1037-1057.   | 1.6 | 6         |
| 20 | Endolithic microbial communities in carbonate precipitates from serpentinite-hosted hyperalkaline springs of the Voltri Massif (Ligurian Alps, Northern Italy). <i>Environmental Science and Pollution Research</i> , 2015, 22, 13613-13624. | 5.3 | 42        |
| 21 | Fluid chemistry of the low temperature hyperalkaline hydrothermal system of Prony Bay (New Tj ETQq1 1 0.784314 rgBT /Overlock 1  | 3.3 | 79        |
| 22 | Spatial distribution of microbial communities in the shallow submarine alkaline hydrothermal field of the <sc>P</sc>rony <sc>B</sc>ay, <sc>N</sc>ew <sc>C</sc>aledonia. <i>Environmental Microbiology Reports</i> , 2014, 6, 665-674.        | 2.4 | 64        |
| 23 | Characterization of hyperalkaline fluids produced by low-temperature serpentinization of mantle peridotites in the Oman and Ligurian ophiolites. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2496-2522.                          | 2.5 | 104       |
| 24 | Mineralogical assemblages forming at hyperalkaline warm springs hosted on ultramafic rocks: A case study of Oman and Ligurian ophiolites. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2474-2495.                                 | 2.5 | 58        |
| 25 | Barium and carbon fluxes in the Canadian Arctic Archipelago. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3 | 21        |
| 26 | The stability of gypsum in marine sediments using the entire ODP/IODP porewater composition database. <i>Marine Geology</i> , 2011, 279, 87-97.  | 2.1 | 23        |
| 27 | Distribution of barium in the Weddell Gyre: Impact of circulation and biogeochemical processes. <i>Marine Chemistry</i> , 2010, 122, 118-129.  | 2.3 | 31        |
| 28 | Investigation of the H <sub>2</sub> O-NaCl-LiCl System: A Synthetic Fluid Inclusion Study and Thermodynamic Modeling from -50Å to +100ÅC and up to 12 mol/kg. <i>Economic Geology</i> , 2010, 105, 329-338.                                  | 3.8 | 29        |
| 29 | A study of celestine equilibrium in marine sediments using the entire ODP/IODP porewater data base. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3925-3937.  | 3.9 | 15        |
| 30 | Dolomitic concretions in the Eocene Sobrarbe delta (Spanish Pyrenees): Fluid circulation above a submarine slide scar infilling. <i>Marine and Petroleum Geology</i> , 2009, 26, 724-737.  | 3.3 | 14        |
| 31 | Mesopelagic organic carbon remineralization in the Kerguelen Plateau region tracked by biogenic particulate Ba. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 868-879.                                       | 1.4 | 57        |
| 32 | Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1673-1683.       | 1.4 | 53        |
| 33 | Chlorine stable isotopic composition of basement fluids of the eastern flank of the Juan de Fuca Ridge (ODP Leg 168). <i>Earth and Planetary Science Letters</i> , 2007, 260, 10-22.   | 4.4 | 41        |
| 34 | The saturation state of the world's ocean with respect to (Ba,Sr)SO <sub>4</sub> solid solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3290-3298.  | 3.9 | 73        |
| 35 | Thermodynamics of the LiOH + H <sub>2</sub> O System. <i>ChemInform</i> , 2005, 36, no.  | 0.0 | 0         |
| 36 | Thermodynamics of the LiOH + H <sub>2</sub> O System. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 1109-1113.   | 1.9 | 23        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Thermodynamics of the LiCl + H <sub>2</sub> O System. ChemInform, 2003, 34, no.   | 0.0 | 0         |
| 38 | A thermodynamic investigation of barium and calcium sulfate stability in sediments at an oceanic ridge axis (Juan de Fuca, ODP legs 139 and 169). Geochimica Et Cosmochimica Acta, 2003, 67, 2965-2976.   | 3.9 | 15        |
| 39 | Ba distribution in surface Southern Ocean sediments and export production estimates. Paleoceanography, 2002, 17, 1-1-1-20.  | 3.0 | 123       |
| 40 | Thermodynamics of the LiCl + H <sub>2</sub> O System. Journal of Chemical & Engineering Data, 2002, 47, 1331-1336.  | 1.9 | 81        |
| 41 | Barium geochemistry in sediment pore waters and formation waters of the oceanic crust on the eastern flank of the Juan de Fuca Ridge (ODP Leg 168). Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.   | 2.5 | 26        |
| 42 | Comments on "Low temperature thermodynamic model for the system Na <sub>2</sub> CO <sub>3</sub> -MgCO <sub>3</sub> -CaCO <sub>3</sub> -H <sub>2</sub> O" by Klingsberger et al. (GCA, 63, 3105-3119, 1999). Geochimica Et Cosmochimica Acta, 2001, 65, 181-182. | 3.9 | 2         |
| 43 | Barium accumulation in the Arabian Sea: controls on barite preservation in marine sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 1545-1556.  | 3.9 | 93        |
| 44 | Fluid-sediment interactions related to hydrothermal circulation in the Eastern Flank of the Juan de Fuca Ridge. Chemical Geology, 2001, 175, 343-360.   | 3.3 | 25        |
| 45 | Geochemical dynamics of the Atlantis II Deep (Red Sea): II. Composition of metalliferous sediment pore waters. Geochimica Et Cosmochimica Acta, 2000, 64, 3995-4006.  | 3.9 | 32        |
| 46 | Chemical composition of basement fluids within an oceanic ridge flank: Implications for along-strike and across-strike hydrothermal circulation. Journal of Geophysical Research, 2000, 105, 13437-13447.   | 3.3 | 97        |
| 47 | The marine barite saturation state of the world's oceans. Marine Chemistry, 1999, 65, 253-261.  | 2.3 | 167       |
| 48 | Detailed determination of palaeofluid chemistry: an integrated study of sulphate-volatile rich brines and aquo-carbonic fluids in quartz veins from Ouro Fino (Brazil). Chemical Geology, 1999, 154, 179-192.   | 3.3 | 34        |
| 49 | A thermodynamic model for the solubility of barite and celestite in electrolyte solutions and seawater to 200°C and to 1 kbar. Chemical Geology, 1999, 153, 187-209.  | 3.3 | 164       |
| 50 | Fluid and geochemical transport through oceanic crust: a transect across the eastern flank of the Juan de Fuca Ridge. Earth and Planetary Science Letters, 1999, 172, 151-165.  | 4.4 | 205       |
| 51 | Thermodynamics of the CsCl-H <sub>2</sub> O system at low temperatures. European Journal of Mineralogy, 1999, 11, 477-482.  | 1.3 | 9         |
| 52 | Circulation hydrothermale dans le flanc est de la ride de Juan de Fuca. Résultats du Leg ODP 168. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 1998, 326, 201-206.                    | 0.2 | 0         |
| 53 | Longitudinal distributions of dissolved barium, silica and alkalinity in the western and southern Indian Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1-31.  | 1.4 | 63        |
| 54 | The anhydrite saturation index of the ponded brines and sediment pore waters of the Red Sea deeps. Chemical Geology, 1996, 127, 141-159.  | 3.3 | 27        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Thermodynamic Properties of the Na-K-Ca-Ba-Cl-H <sub>2</sub> O System to 473.15 K and Solubility of Barium Chloride Hydrates. <i>Journal of Chemical &amp; Engineering Data</i> , 1995, 40, 828-832.  | 1.9 | 19        |
| 56 | Density calculation and concentration scale conversions for natural waters. <i>Computers and Geosciences</i> , 1994, 20, 1435-1445.   | 4.2 | 39        |
| 57 | 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        |
| 58 | The influence of pressure on the activity coefficients of the solutes and on the solubility of minerals in the system Na-Ca-Cl-SO <sub>4</sub> -H <sub>2</sub> O to 200Å°C and 1 kbar and to high NaCl concentration. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 3265-3282. | 3.9 | 75        |
| 59 | An ion interaction model for the volumetric properties of natural waters: Density of the solution and partial molal volumes of electrolytes to high concentrations at 25Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 1177-1188.  | 3.9 | 79        |
| 60 | The solubility of celestite and barite in electrolyte solutions and natural waters at 25Å°C: A thermodynamic study. <i>Chemical Geology</i> , 1988, 71, 283-296.  | 3.3 | 71        |
| 61 | Densities and apparent molal volumes of aqueous CaCl <sub>2</sub> and MgCl <sub>2</sub> solutions. <i>Journal of Solution Chemistry</i> , 1987, 16, 1035-1048.  | 1.2 | 33        |
| 62 | Chemical Equilibrium between Minerals and Natural Waters. , 1987, , 429-440.  |     | 0         |
| 63 | Determination of the solubility products of sodium carbonate minerals and an application to trona deposition in Lake Magadi (Kenya). <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 571-581.  | 3.9 | 70        |
| 64 | Geochemistry of brines of the chott El Jerid in southern Tunisia â€” Application of Pitzer's equations. <i>Chemical Geology</i> , 1983, 39, 165-178.  | 3.3 | 58        |
| 65 | Chemical equilibrium between aqueous fluids and minerals in the marine environment. , 0, , 227-258.   |     | 3         |
| 66 | Fractionation of <sup>226</sup> Ra and Ba in the Upper North Pacific Ocean. <i>Frontiers in Marine Science</i> , 0, 9, .  | 2.5 | 1         |