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	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
2	The marine barite saturation state of the world's oceans. Marine Chemistry, 1999, 65, 253-261.	2.3	167
3	A thermodynamic model for the solubility of barite and celestite in electrolyte solutions and seawater to 200Â°C and to 1 kbar. Chemical Geology, 1999, 153, 187-209.	3.3	164
4	Ba distribution in surface Southern Ocean sediments and export production estimates. Paleoceanography, 2002, 17, 1-1-1-20.	3.0	123
5	Characterization of hyperalkaline fluids produced by lowâ€temperature serpentinization of mantle peridotites in the Oman and Ligurian ophiolites. Geochemistry, Geophysics, Geosystems, 2013, 14, 2496-2522.	2.5	104
6	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
7	Barium accumulation in the Arabian Sea: controls on barite preservation in marine sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 1545-1556.	3.9	93
8	Thermodynamics of the LiCl + H2O System. Journal of Chemical & Engineering Data, 2002, 47, 1331-1336.	1.9	81
9	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 25Â°C. Geochimica Et Cosmochimica Acta, 1989, 53, 1177-1188.	3.9	79
10	Fluid chemistry of the low temperature hyperalkaline hydrothermal system of Prony Bay (New) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	3.3	79
11	The influence of pressure on the activity coefficients of the solutes and on the solubility of minerals in the system Na-Ca-Cl-SO4-H2O to 200Â°C and 1 kbar and to high NaCl concentration. Geochimica Et Cosmochimica Acta, 1990, 54, 3265-3282.	3.9	75
12	The saturation state of the worldâ€™s ocean with respect to (Ba,Sr)SO4 solid solutions. Geochimica Et Cosmochimica Acta, 2006, 70, 3290-3298.	3.9	73
13	The solubility of celestite and barite in electrolyte solutions and natural waters at 25Â°C: A thermodynamic study. Chemical Geology, 1988, 71, 283-296.	3.3	71
14	Determination of the solubility products of sodium carbonate minerals and an application to trona deposition in Lake Magadi (Kenya). Geochimica Et Cosmochimica Acta, 1984, 48, 571-581.	3.9	70
15	Spatial distribution of microbial communities in the shallow submarine alkaline hydrothermal field of the <scp>P</scp>rony <scp>B</scp>ay, <scp>N</scp>ew <scp>C</scp>aledonia. Environmental Microbiology Reports, 2014, 6, 665-674.	2.4	64
16	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
17	Determinations of water, hydrates and pH in fluid inclusions by micro-Raman spectrometry. European Journal of Mineralogy, 1992, 4, 885-894.	1.3	61
18	Geochemistry of brines of the chott El Jerid in southern Tunesia â€” Application of Pitzer's equations. Chemical Geology, 1983, 39, 165-178.	3.3	58

#	Article	IF	Citations
19	Mineralogical assemblages forming at hyperalkaline warm springs hosted on ultramafic rocks: A case study of Oman and Ligurian ophiolites. Geochemistry, Geophysics, Geosystems, 2013, 14, 2474-2495.	2.5	58
20	Mesopelagic organic carbon remineralization in the Kerguelen Plateau region tracked by biogenic particulate Ba. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 868-879.	1.4	57
21	Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1673-1683.	1.4	53
22	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
23	Endolithic microbial communities in carbonate precipitates from serpentinite-hosted hyperalkaline springs of the Voltri Massif (Ligurian Alps, Northern Italy). Environmental Science and Pollution Research, 2015, 22, 13613-13624.	5.3	42
24	Chlorine stable isotopic composition of basement fluids of the eastern flank of the Juan de Fuca Ridge (ODP Leg 168). Earth and Planetary Science Letters, 2007, 260, 10-22.	4.4	41
25	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
26	Density calculation and concentration scale conversions for natural waters. Computers and Geosciences, 1994, 20, 1435-1445.	4.2	39
27	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
28	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
29	Densities and apparent molal volumes of aqueous CaCl2 and MgCl2 solutions. Journal of Solution Chemistry, 1987, 16, 1035-1048.	1.2	33
30	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
31	Distribution of barium in the Weddell Gyre: Impact of circulation and biogeochemical processes. Marine Chemistry, 2010, 122, 118-129.	2.3	31
32	Investigation of the H2O-NaCl-LiCl System: A Synthetic Fluid Inclusion Study and Thermodynamic Modeling from -50Â to +100ÂC and up to 12 mol/kg. Economic Geology, 2010, 105, 329-338.	3.8	29
33	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
34	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
35	Fluidâ€“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
36	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

#	Article	IF	Citations
37	Thermodynamics of the LiOH + H2O System. Journal of Chemical & Engineering Data, 2005, 50, 1109-1113.	1.9	23
38	The stability of gypsum in marine sediments using the entire ODP/IODP porewater composition database. Marine Geology, 2011, 279, 87-97.	2.1	23
39	Barium and carbon fluxes in the Canadian Arctic Archipelago. Journal of Geophysical Research, 2011, 116, .	3.3	21
40	Temporal variability of lagoonâ€“sea water exchange and seawater circulation through a Mediterranean barrier beach. Limnology and Oceanography, 2019, 64, 2059-2080.	3.1	20
41	Thermodynamic Properties of the Na-K-Ca-Ba-Cl-H2O System to 473.15 K and Solubility of Barium Chloride Hydrates. Journal of Chemical & Engineering Data, 1995, 40, 828-832.	1.9	19
42	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
43	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
44	A study of celestine equilibrium in marine sediments using the entire ODP/IODP porewater data base. Geochimica Et Cosmochimica Acta, 2010, 74, 3925-3937.	3.9	15
45	Dolomitic concretions in the Eocene Sobrarbe delta (Spanish Pyrenees): Fluid circulation above a submarine slide scar infilling. Marine and Petroleum Geology, 2009, 26, 724-737.	3.3	14
46	A high resolution and quasi-zonal transect of dissolved Ba in the Mediterranean Sea. Marine Chemistry, 2016, 178, 1-7.	2.3	14
47	Chapter 9â€ƒMineral resources and prospectivity of non-ultramafic rocks of New Caledonia. Geological Society Memoir, 2020, 51, 215-245.	1.7	10
48	Alkalicella caledoniensis gen. nov., sp. nov., a novel alkaliphilic anaerobic bacterium isolated from â€˜La Crouenâ€™ alkaline thermal spring, New Caledonia. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	10
49	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
50	Thermodynamics of the CsCl-H2O system at low temperatures. European Journal of Mineralogy, 1999, 11, 477-482.	1.3	9
51	Burial Diagenesis of the Eocene Sobrarbe Delta (Ainsa Basin, Spain) Inferred From Dolomitic Concretions. Journal of Sedimentary Research, 2015, 85, 1037-1057.	1.6	6
52	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
53	Characterization of the submarine disposal of a Bayer effluent (Gardanne alumina plant, southern) Tj ETQq1 1 0.784314 rgBT /Overlo outfall. Chemosphere, 2021, 263, 127695.	8.2	6
54	Procaryotic Diversity and Hydrogenotrophic Methanogenesis in an Alkaline Spring (La Crouen, New) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	5

#	Article	IF	Citations
55	Using ²²⁶Ra and ²²⁸Ra isotopes to distinguish water mass distribution in the Canadian Arctic Archipelago. Biogeosciences, 2020, 17, 4937-4959.	3.3	5
56	Chemical equilibrium between aqueous fluids and minerals in the marine environment. , 0, , 227-258.		3
57	Comments on â€œLow temperature thermodynamic model for the system Na2CO3â€“MgCO3â€“CaCO3â€“H2Oâ€• by KÃ¶nigsberger et al. (GCA, 63, 3105-3119, 1999). Geochimica Et Cosmochimica Acta, 2001, 65, 181-182.	3.9	2
58	Abiogenic formation of H₂, 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
59	Characterization of the submarine disposal of a Bayer effluent (Gardanne alumina plant, southern) Tj ETQq1 1 0.784314 rgBT /Overlock concretions formed by its discharge in the Mediterranean Sea. Environmental Advances, 2021, 5, 100087.	4.8	1
60	Fractionation of 226Ra and Ba in the Upper North Pacific Ocean. Frontiers in Marine Science, 0, 9, .	2.5	1
61	Circulation hydrothermale dans le flanc est de la ride de Juan de Fuca. RÃ©sultats du Leg ODP 168. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 1998, 326, 201-206.	0.2	0
62	Thermodynamics of the LiCl + H2O System. ChemInform, 2003, 34, no.	0.0	0
63	Thermodynamics of the LiOH + H2O System. ChemInform, 2005, 36, no.	0.0	0
64	Chemical Equilibrium between Minerals and Natural Waters. , 1987, , 429-440.		0
65	New Insights on Trace Metals Behavior in the Industrial Impacted Submarine Cassidaigne Canyon. , 2020, , .		0
66	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