

# valerie Chavagnac

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,192  
citations

279798

23  
h-index

182427

51  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hf isotope ratio analysis using multi-collector inductively coupled plasma mass spectrometry: an evaluation of isobaric interference corrections. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1567-1574.	3.0	1,087
2	Coesite-bearing eclogites from the Bixiling Complex, Dabie Mountains, China: Sm–Nd ages, geochemical characteristics and tectonic implications. <i>Chemical Geology</i> , 1996, 133, 29-51.	3.3	294
3	Dating the Indian continental subduction and collisional thickening in the northwest Himalaya: Multichronology of the Tso Moriri eclogites. <i>Geology</i> , 2000, 28, 487-490.	4.4	240
4	A geochemical and Nd isotopic study of Barberton komatiites (South Africa): implication for the Archean mantle. <i>Lithos</i> , 2004, 75, 253-281.	1.4	104
5	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
6	Efficient removal of recalcitrant deep-ocean dissolved organic matter during hydrothermal circulation. <i>Nature Geoscience</i> , 2015, 8, 856-860.	12.9	104
7	Rare earth elements and Nd isotopes tracing water mass mixing and particle-seawater interactions in the SE Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 351-372.	3.9	94
8	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13°20'N and 13°30'N, Mid Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1451-1482.	2.5	94
9	Mineralogy, geochemistry, and Nd isotope composition of the Rainbow hydrothermal field, Mid-Atlantic Ridge. <i>Mineralium Deposita</i> , 2006, 41, 52-67.	4.1	86
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	Multichronometric Evidence for an In Situ Origin of the Ultrahigh-Pressure Metamorphic Terrane of Dabieshan, China. <i>Journal of Geology</i> , 2001, 109, 633-646.	1.4	78
12	Comparing rates of recrystallisation and the potential for preservation of biomolecules from the distribution of trace elements in fossil bones. <i>Comptes Rendus - Palevol</i> , 2008, 7, 145-158.	0.2	65
13	Sources of REE in sediment cores from the Rainbow vent site (36°14'N, MAR). <i>Chemical Geology</i> , 2005, 216, 329-352.	3.3	64
14	Spatial distribution of microbial communities in the shallow submarine alkaline hydrothermal field of the Prony Bay, New Caledonia. <i>Environmental Microbiology Reports</i> , 2014, 6, 665-674.	2.4	64
15	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
16	The behaviour of Nd and Pb isotopes during 2.0 Ga migmatization in paragneisses of the Central Zone of the Limpopo Belt (South Africa and Botswana). <i>Precambrian Research</i> , 2001, 112, 51-86.	2.7	44
17	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
18	Sr isotope ratios of modern carbonate shells: Good and bad news for chemostratigraphy. <i>Geology</i> , 2018, 46, 1003-1006.	4.4	39

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19	Determination of lead isotope ratios in seawater by quadrupole inductively coupled plasma mass spectrometry after Mg(OH) <sub>2</sub> co-precipitation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 363-374.	2.9	34
20	Calcium, Na, K and Mg Concentrations in Seawater by Inductively Coupled Plasma Atomic Emission Spectrometry: Applications to IAPSO Seawater Reference Material, Hydrothermal Fluids and Synthetic Seawater Solutions. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 355-362.	3.1	29
21	Microbial ecology of the newly discovered serpentinite-hosted Old City hydrothermal field (southwest Indian ridge). <i>ISME Journal</i> , 2021, 15, 818-832.	9.8	29
22	Migmatization by metamorphic segregation at subsolidus conditions: implications for Nd-Pb isotope exchange. <i>Lithos</i> , 1999, 46, 275-298.	1.4	27
23	Tracing dust input to the Mid-Atlantic Ridge between 14°45'N and 36°14'N: Geochemical and Sr isotope study. <i>Marine Geology</i> , 2008, 247, 208-225.	2.1	27
24	MoMAR-D: a technological challenge to monitor the dynamics of the Lucky Strike vent ecosystem. <i>ICES Journal of Marine Science</i> , 2011, 68, 416-424.	2.5	27
25	Origin of cap carbonates: An experimental approach. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 392, 524-533.	2.3	23
26	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. <i>Earth and Planetary Science Letters</i> , 2016, 450, 96-107.	4.4	21
27	Spatial Variations in Vent Chemistry at the Lucky Strike Hydrothermal Field, Mid-Atlantic Ridge (37°N): Updates for Seafloor Flow Geometry From the Newly Discovered Capelinhos Vent. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4444-4458.	2.5	20
28	Sulfate minerals control dissolved rare earth element flux and Nd isotope signature of buoyant hydrothermal plume (EMSO-Azores, 37°N Mid-Atlantic Ridge). <i>Chemical Geology</i> , 2018, 499, 111-125.	3.3	20
29	Towards the development of a fossil bone geochemical standard: An inter-laboratory study. <i>Analytica Chimica Acta</i> , 2007, 599, 177-190.	5.4	19
30	On the early fate of hydrothermal iron at deep-sea vents: A reassessment after in situ filtration. <i>Geophysical Research Letters</i> , 2017, 44, 4233-4240.	4.0	18
31	Diffuse Hydrothermal Venting: A Hidden Source of Iron to the Oceans. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	17
32	Anti-Atlas Moroccan Chain as the source of lithogenic-derived micronutrient fluxes to the deep Northeast Atlantic Ocean. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	15
33	Seawater 87Sr/86Sr ratios along continental margins: Patterns and processes in open and restricted shelf domains. <i>Chemical Geology</i> , 2020, 558, 119874.	3.3	14
34	Travertines Associated With Hyperalkaline Springs: Evaluation As A Proxy For Paleoenvironmental Conditions And Sequestration of Atmospheric CO <sub>2</sub> . <i>Journal of Sedimentary Research</i> , 2016, 86, 1328-1343.	1.6	13
35	Low power hydrogen sensors using electrodeposited PdNi-Si Schottky diodes. <i>Sensors and Actuators B: Chemical</i> , 2012, 170, 176-181.	7.8	12
36	Hydrothermal sediments as a potential record of seawater Nd isotope compositions: The Rainbow vent site (36°14'N, Mid-Atlantic Ridge). <i>Paleoceanography</i> , 2006, 21, .	3.0	11

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37	Global environmental effects of large volcanic eruptions on ocean chemistry: Evidence from hydrothermal sediments (ODP Leg 185, Site 1149B). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
38	Contrasted hydrothermal activity along the South-East Indian Ridge (130°E–140°E): From crustal to ultramafic circulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2446-2458.	2.5	9
39	Seawater paleotemperature and paleosalinity evolution in neritic environments of the Mediterranean margin: Insights from isotope analysis of bivalve shells. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 543, 109582.	2.3	9
40	Drake Passage gateway opening and Antarctic Circumpolar Current onset 31 Ma ago: The message of foraminifera and reconsideration of the Neodymium isotope record. <i>Chemical Geology</i> , 2021, 570, 120171.	3.3	8
41	Sensing Dissolved Methane in Aquatic Environments: An Experiment in the Central Baltic Sea Using Surface Plasmon Resonance. <i>Environmental Science &amp; Technology</i> , 2013, 47, 130716153115002.	10.0	7
42	Prokaryote Communities at Active Chimney and In Situ Colonization Devices After a Magmatic Degassing Event (37°N MAR, EMSO-Azores Deep-Sea Observatory). <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3065-3089.	2.5	6
43	Fluid Circulation Along an Oceanic Detachment Fault: Insights From Fluid Inclusions in Silicified Brecciated Fault Rocks (Mid-Atlantic Ridge at 13°20'N). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	2.5	5
44	Integrating Multidisciplinary Observations in Vent Environments (IMOVE): Decadal Progress in Deep-Sea Observatories at Hydrothermal Vents. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	5
45	Low power hydrogen sensors using electrodeposited PdNi-Si schottky diodes. <i>Procedia Engineering</i> , 2010, 5, 143-146.	1.2	4
46	Metal partitioning after in situ filtration at deep-sea vents of the Lucky Strike hydrothermal field (EMSO-Azores, Mid-Atlantic Ridge, 37°N). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 157, 103204.	1.4	4
47	Behavior of iron isotopes in hydrothermal systems: Beebe and Von Damm vent fields on the Mid-Cayman ultraslow-spreading ridge. <i>Earth and Planetary Science Letters</i> , 2021, 575, 117200.	4.4	4
48	Analysis and Design of a Hybrid Optical Fiber Refractometer for Large Dynamic Range Measurements. <i>IEEE Sensors Journal</i> , 2020, 20, 5260-5269.	4.7	2
49	Electro-Deposited PdNi-Si Schottky Barrier Hydrogen Sensors with Improved Time Response. <i>Procedia Engineering</i> , 2012, 47, 37-40.	1.2	1
50	Tracking the Lithium and Strontium Isotope Signature of Hydrothermal Plume in the Water Column: A Case Study at the EMSO-Azores Deep-Sea Observatory. <i>Frontiers in Environmental Chemistry</i> , 2022, 3, .	1.6	1