

# Nathalie Vigier

## List of Publications by Year in descending order

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74  
papers

3,447  
citations

126858

33  
h-index

138417

58  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-traditional stable isotopes applied to the study of trace metal contaminants in anthropized marine environments. <i>Marine Pollution Bulletin</i> , 2022, 175, 113398.	2.3	14
2	Carbon stable isotope ratio as a revealer of incomplete decarbonation for particulate organic carbon measurement in river plumes. <i>Geo-Marine Letters</i> , 2021, 41, 1.	0.5	0
3	Variations of Mg isotope geochemistry in soils over a Hawaiian 4 Myr chronosequence. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 94-114.	1.6	14
4	Lithium isotopic composition of reference materials of biological origin TORT-2, DORM-2, TORT-3, DORM-4, SRM-1400 and ERM-CE278k. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1381-1388.	1.6	6
5	Bioaccumulation of Lithium Isotopes in Mussel Soft Tissues and Implications for Coastal Environments. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1407-1417.	1.2	27
6	Clay Li and Nd isotopes response to hydroclimate changes in the Changjiang (Yangtze) basin over the past 14,000 years. <i>Earth and Planetary Science Letters</i> , 2021, 561, 116793.	1.8	15
7	Co-variations of climate and silicate weathering in the Nile Basin during the Late Pleistocene. <i>Quaternary Science Reviews</i> , 2021, 264, 107012.	1.4	10
8	Large-scale survey of lithium concentrations in marine organisms. <i>Science of the Total Environment</i> , 2021, 751, 141453.	3.9	30
9	PROBING CONTINENTAL WEATHERING AT GLOBAL SCALE USING LI, MG AND SI ISOTOPES IN FLUVIAL SEDIMENTS. , 2021, , .		0
10	Biological fractionations of lithium isotopes. , 2021, , .		0
11	Lithium isotope geochemistry in the Barton Peninsula, King George Island, Antarctica. , 2021, , .		0
12	Lithium isotopes in marine food webs. , 2021, , .		0
13	Lithium isotopic composition of biological reference materials and automated Li separation using PrepFAST MCTM. , 2021, , .		0
14	REE and Nd isotopes in sedimentary Fe oxides as proxies for shale weathering. , 2021, , .		0
15	Exploring the role of environmental and ecological parameters on lithium isotope composition of marine carbonates. , 2021, , .		0
16	Modelling the riverine $\delta^7\text{Li}$ variability throughout the Amazon Basin. <i>Chemical Geology</i> , 2020, 532, 119336.	1.4	19
17	Rare earth element and neodymium isotope tracing of sedimentary rock weathering. <i>Chemical Geology</i> , 2020, 553, 119794.	1.4	16
18	Novel Application of Lithium and its Isotopes in Marine Ecotoxicology. , 2020, , .		0

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19	Lithium Isotope Composition of Scleratinian Corals is Sensitive to Internal pH Regulation. , 2020, , .		0
20	Progressive Evolution of the Changjiang (Yangtze River) Sediment Weathering Intensity Since the Three Gorges Dam Operation. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2402-2416.	1.0	13
21	Chemical erosion rates in the upper Blue Nile Basin and related atmospheric CO2 consumption. Chemical Geology, 2019, 518, 19-31.	1.4	7
22	The impact of anthropogenic inputs on lithium content in river and tap water. Nature Communications, 2019, 10, 5371.	5.8	57
23	Lithium Behaviour and Isotope Fractionation During Fluid-Rock Interactions in Variscan Oceanic Suture Zones: Limousin Ophiolite and Ile de Groix High-pressure Terrane (France). Journal of Petrology, 2019, 60, 1963-1990.	1.1	4
24	Increased Mg release rates and related Mg isotopic signatures during bacteria-phlogopite interactions. Chemical Geology, 2019, 506, 17-28.	1.4	10
25	Impact of climate change and human activity on soil landscapes over the past 12,300 years. Scientific Reports, 2018, 8, 247.	1.6	51
26	Lithium Isotope Composition of Marine Biogenic Carbonates and Related Reference Materials. Geostandards and Geoanalytical Research, 2018, 42, 403-415.	1.7	28
27	Abrupt response of chemical weathering to Late Quaternary hydroclimate changes in northeast Africa. Scientific Reports, 2017, 7, 44231.	1.6	34
28	Experimental investigation of Mg isotope fractionation during mineral dissolution and clay formation. Chemical Geology, 2016, 445, 135-145.	1.4	59
29	Variability in magnesium, carbon and oxygen isotope compositions of brachiopod shells: Implications for paleoceanographic studies. Chemical Geology, 2016, 423, 49-60.	1.4	33
30	Investigating Li Isotope Composition of Nile Deltaic Sediments as Paleotracer of Continental Alteration. Procedia Earth and Planetary Science, 2015, 13, 261-264.	0.6	2
31	Potential Orthopyroxene, Clinopyroxene and Olivine Reference Materials for <i>In Situ</i> Lithium Isotope Determination. Geostandards and Geoanalytical Research, 2015, 39, 357-369.	1.7	51
32	A new approach for modeling Cenozoic oceanic lithium isotope paleo-variations: the key role of climate. Climate of the Past, 2015, 11, 635-645.	1.3	52
33	Lithium isotopes in foraminifera shells as a novel proxy for the ocean dissolved inorganic carbon (DIC). Comptes Rendus - Geoscience, 2015, 347, 43-51.	0.4	54
34	Enhanced dissolution of basaltic glass in brackish waters: Impact on biogeochemical cycles. Earth and Planetary Science Letters, 2015, 417, 1-8.	1.8	25
35	Lithium isotopes in hydrothermally altered basalts from Hengill (SW Iceland). Earth and Planetary Science Letters, 2015, 411, 62-71.	1.8	32
36	Variation of lithium isotope geochemistry during basalt weathering and secondary mineral transformations in Hawaii. Geochimica Et Cosmochimica Acta, 2014, 145, 103-115.	1.6	64

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37	Natural variations of lithium isotopes in a mammalian model. <i>Metallomics</i> , 2014, 6, 582.	1.0	29
38	Magnesium Isotope Fractionation During Arid Pedogenesis on the Island of Hawaii (USA). <i>Procedia Earth and Planetary Science</i> , 2014, 10, 243-248.	0.6	10
39	Lithium elemental and isotopic variations in rock-melt interaction. <i>Chemie Der Erde</i> , 2014, 74, 705-713.	0.8	16
40	Distinguishing silicate and carbonatite mantle metasomatism by using lithium and its isotopes. <i>Chemical Geology</i> , 2014, 381, 67-77.	1.4	38
41	The stable calcium isotopic composition of rivers draining basaltic catchments in Iceland. <i>Earth and Planetary Science Letters</i> , 2013, 374, 173-184.	1.8	43
42	Lithium Isotopes as Tracers in Marine and Terrestrial Environments. <i>Advances in Isotope Geochemistry</i> , 2012, , 41-59.	1.4	27
43	Processes controlling the stable isotope compositions of Li, B, Mg and Ca in plants, soils and waters: A review. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 704-722.	0.4	98
44	Constraining Rates of Chemical and Physical Erosion Using U-Series Radionuclides. <i>Advances in Isotope Geochemistry</i> , 2012, , 553-571.	1.4	4
45	Partitioning of lithium between smectite and solution: An experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 314-325.	1.6	41
46	Effects of biogeochemical processes on magnesium isotope variations in a forested catchment in the Vosges Mountains (France). <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 341-355.	1.6	102
47	Mg isotope fractionation during calcite precipitation: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 75-91.	1.6	73
48	Origins of $^{210}\text{Pb}$ – $^{226}\text{Ra}$ disequilibria in basalts: New insights from the 1978 Asal Rift eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	5
49	Behavior of osmium at the freshwater-saltwater interface based on Ganga derived sediments from the estuarine zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	2
50	Experimental determination of the role of diffusion on Li isotope fractionation during basaltic glass weathering. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3452-3468.	1.6	74
51	Experimental determination of magnesium isotope fractionation during higher plant growth. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2523-2537.	1.6	143
52	Dissolved osmium in Bengal plain groundwater: Implications for the marine Os budget. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3432-3448.	1.6	16
53	Behaviour of lithium and its isotopes during weathering in the Mackenzie Basin, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3897-3912.	1.6	204
54	Lithium isotope systematics in a forested granitic catchment (Strengbach, Vosges Mountains, France). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4612-4628.	1.6	145

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55	Magnesium Isotope Compositions of Natural Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 95-109.	1.7	89
56	Hf and Nd isotopes in marine sediments: Constraints on global silicate weathering. <i>Earth and Planetary Science Letters</i> , 2009, 277, 318-326.	1.8	112
57	Effect of environmental conditions and skeletal ultrastructure on the Li isotopic composition of scleractinian corals. <i>Earth and Planetary Science Letters</i> , 2009, 286, 63-70.	1.8	61
58	The relationship between riverine lithium isotope composition and silicate weathering rates in Iceland. <i>Earth and Planetary Science Letters</i> , 2009, 287, 434-441.	1.8	150
59	A new method for analysis of osmium isotopes and concentrations in surface and subsurface water samples. <i>Chemical Geology</i> , 2009, 258, 136-144.	1.4	23
60	Quantifying Li isotope fractionation during smectite formation and implications for the Li cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 780-792.	1.6	266
61	Magnesium isotope systematics of the lithologically varied Moselle river basin, France. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5070-5089.	1.6	138
62	In situ measurements of calcium isotopes by ion microprobe in carbonates and application to foraminifera. <i>Chemical Geology</i> , 2007, 244, 679-690.	1.4	35
63	In situ measurements of Li isotopes in foraminifera. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	23
64	Three Secondary Reference Materials for Lithium Isotope Measurements: Li7-N, Li6-N and LiCl-N Solutions. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 7-12.	2.0	43
65	The influence of weathering process on riverine osmium isotopes in a basaltic terrain. <i>Earth and Planetary Science Letters</i> , 2006, 243, 732-748.	1.8	34
66	The control of weathering processes on riverine and seawater hafnium isotope ratios. <i>Geology</i> , 2006, 34, 433.	2.0	72
67	Mobility of U-series nuclides during basalt weathering: An example from the Deccan Traps (India). <i>Chemical Geology</i> , 2005, 219, 69-91.	1.4	71
68	A Reflection on Mg, Cd, Ca, Li and Si Isotopic Measurements and Related Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 139-148.	2.0	59
69	Accurate and High-Precision Measurement of Lithium Isotopes in Two Reference Materials by MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 153-159.	2.0	157
70	Erosion timescales derived from U-decay series measurements in rivers. <i>Earth and Planetary Science Letters</i> , 2001, 193, 549-563.	1.8	144
71	Determination of thorium and uranium isotope ratios in low-concentration geological materials using a fixed multi-collector-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 612-615.	1.6	66
72	U-decay series and trace element systematics in the 1978 eruption of Ardoukoba, Asal rift: timescale of magma crystallization. <i>Earth and Planetary Science Letters</i> , 1999, 174, 81-98.	1.8	59

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73	Rapid response of silicate weathering rates to climate change in the Himalaya. <i>Geochemical Perspectives Letters</i> , 0, , 10-19.	1.0	43
74	Decoupling of dissolved and particulate Li isotopes during estuarine processes. <i>Geochemical Perspectives Letters</i> , 0, , 40-44.	1.0	5