

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
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76
all docs

76
docs citations

76
times ranked

2380
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Erosion timescales derived from U-decay series measurements in rivers. <i>Earth and Planetary Science Letters</i> , 2001, 193, 549-563.	1.8	144
7	Experimental determination of magnesium isotope fractionation during higher plant growth. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2523-2537.	1.6	143
8	Magnesium isotope systematics of the lithologically varied Moselle river basin, France. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5070-5089.	1.6	138
9	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
10	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
11	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
12	Magnesium Isotope Compositions of Natural Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 95-109.	1.7	89
13	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
14	Mg isotope fractionation during calcite precipitation: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 75-91.	1.6	73
15	The control of weathering processes on riverine and seawater hafnium isotope ratios. <i>Geology</i> , 2006, 34, 433.	2.0	72
16	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
17	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
18	Variation of lithium isotope geochemistry during basalt weathering and secondary mineral transformations in Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 145, 103-115.	1.6	64

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19	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
20	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
21	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
22	Experimental investigation of Mg isotope fractionation during mineral dissolution and clay formation. <i>Chemical Geology</i> , 2016, 445, 135-145.	1.4	59
23	The impact of anthropogenic inputs on lithium content in river and tap water. <i>Nature Communications</i> , 2019, 10, 5371.	5.8	57
24	Lithium isotopes in foraminifera shells as a novel proxy for the ocean dissolved inorganic carbon (DIC). <i>Comptes Rendus - Geoscience</i> , 2015, 347, 43-51.	0.4	54
25	A new approach for modeling Cenozoic oceanic lithium isotope paleo-variations: the key role of climate. <i>Climate of the Past</i> , 2015, 11, 635-645.	1.3	52
26	Potential Orthopyroxene, Clinopyroxene and Olivine Reference Materials for <i>In Situ</i> Lithium Isotope Determination. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 357-369.	1.7	51
27	Impact of climate change and human activity on soil landscapes over the past 12,300 years. <i>Scientific Reports</i> , 2018, 8, 247.	1.6	51
28	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
29	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
30	Rapid response of silicate weathering rates to climate change in the Himalaya. <i>Geochemical Perspectives Letters</i> , 0, , 10-19.	1.0	43
31	Partitioning of lithium between smectite and solution: An experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 314-325.	1.6	41
32	Distinguishing silicate and carbonatite mantle metasomatism by using lithium and its isotopes. <i>Chemical Geology</i> , 2014, 381, 67-77.	1.4	38
33	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
34	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
35	Abrupt response of chemical weathering to Late Quaternary hydroclimate changes in northeast Africa. <i>Scientific Reports</i> , 2017, 7, 44231.	1.6	34
36	Variability in magnesium, carbon and oxygen isotope compositions of brachiopod shells: Implications for paleoceanographic studies. <i>Chemical Geology</i> , 2016, 423, 49-60.	1.4	33

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37	Lithium isotopes in hydrothermally altered basalts from Hengill (SW Iceland). <i>Earth and Planetary Science Letters</i> , 2015, 411, 62-71.	1.8	32
38	Large-scale survey of lithium concentrations in marine organisms. <i>Science of the Total Environment</i> , 2021, 751, 141453.	3.9	30
39	Natural variations of lithium isotopes in a mammalian model. <i>Metalomics</i> , 2014, 6, 582.	1.0	29
40	Lithium Isotope Composition of Marine Biogenic Carbonates and Related Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 403-415.	1.7	28
41	Lithium Isotopes as Tracers in Marine and Terrestrial Environments. <i>Advances in Isotope Geochemistry</i> , 2012, , 41-59.	1.4	27
42	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
43	Enhanced dissolution of basaltic glass in brackish waters: Impact on biogeochemical cycles. <i>Earth and Planetary Science Letters</i> , 2015, 417, 1-8.	1.8	25
44	In situ measurements of Li isotopes in foraminifera. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	23
45	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
46	Modelling the riverine $\delta^{7}\text{Li}$ variability throughout the Amazon Basin. <i>Chemical Geology</i> , 2020, 532, 119336.	1.4	19
47	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
48	Lithium elemental and isotopic variations in rock-melt interaction. <i>Chemie Der Erde</i> , 2014, 74, 705-713.	0.8	16
49	Rare earth element and neodymium isotope tracing of sedimentary rock weathering. <i>Chemical Geology</i> , 2020, 553, 119794.	1.4	16
50	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
51	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
52	“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
53	Progressive Evolution of the Changjiang (Yangtze River) Sediment Weathering Intensity Since the Three Gorges Dam Operation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2402-2416.	1.0	13
54	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

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55	Increased Mg release rates and related Mg isotopic signatures during bacteria-phlogopite interactions. <i>Chemical Geology</i> , 2019, 506, 17-28.	1.4	10
56	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
57	Chemical erosion rates in the upper Blue Nile Basin and related atmospheric CO ₂ consumption. <i>Chemical Geology</i> , 2019, 518, 19-31.	1.4	7
58	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
59	Origins of ²¹⁰ Pb and ²²⁶ Ra disequilibria in basalts: New insights from the 1978 Asal Rift eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	5
60	Decoupling of dissolved and particulate Li isotopes during estuarine processes. <i>Geochemical Perspectives Letters</i> , 0, , 40-44.	1.0	5
61	Constraining Rates of Chemical and Physical Erosion Using U-Series Radionuclides. <i>Advances in Isotope Geochemistry</i> , 2012, , 553-571.	1.4	4
62	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.	1.1	4
63	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
64	Investigating Li Isotope Composition of Nile Deltaic Sediments as Paleotracer of Continental Alteration. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 261-264.	0.6	2
65	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
66	Novel Application of Lithium and its Isotopes in Marine Ecotoxicology. , 2020, , .		0
67	PROBING CONTINENTAL WEATHERING AT GLOBAL SCALE USING LI, MG AND SI ISOTOPES IN FLUVIALSEDIMENTS. , 2021, , .		0
68	Biological fractionations of lithium isotopes. , 2021, , .		0
69	Lithium isotope geochemistry in the Barton Peninsula, King George Island, Antarctica. , 2021, , .		0
70	Lithium Isotope Composition of Scleratinian Corals is Sensitive to Internal pH Regulation. , 2020, , .		0
71	Lithium isotopes in marine food webs. , 2021, , .		0
72	Lithium isotopic composition of biological reference materials and automated Li separation using PrepFAST MCTM. , 2021, , .		0

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73	REE and Nd isotopes in sedimentary Fe oxides as proxies for shale weathering. , 2021, , .		0
74	Exploring the role of environmental and ecological parameters on lithium isotope composition of marine carbonates. , 2021, , .		0