

Olivier J Rouxel

List of Publications by Year in descending order

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114
papers

10,034
citations

30070

54
h-index

33894

99
g-index

117
all docs

117
docs citations

117
times ranked

6420
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending the dataset of fluid geochemistry of the Menez Gwen, Lucky Strike, Rainbow, TAG and Snake Pit hydrothermal vent fields: Investigation of temporal stability and organic contribution. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 179, 103630.	1.4	5
2	Active hydrothermal vents in the Woodlark Basin may act as dispersing centres for hydrothermal fauna. Communications Earth & Environment, 2022, 3, .	6.8	9
3	Nickel and Chromium Stable Isotopic Composition of Ureilites: Implications for the Earth's Core Formation and Differentiation of the Ureilite Parent Body. Geophysical Research Letters, 2022, 49, .	4.0	8
4	Light Zn and Cu isotope compositions recorded in ferromanganese crusts during the Cenozoic as evidence for hydrothermal inputs in South Pacific deep seawater. Geochimica Et Cosmochimica Acta, 2022, 333, 136-152.	3.9	3
5	Ni isotope fractionation during coprecipitation of Fe(III)(oxyhydr)oxides in Si solutions. Chemie Der Erde, 2021, 81, 125714.	2.0	4
6	Nickel isotopes and rare earth elements systematics in marine hydrogenetic and hydrothermal ferromanganese deposits. Chemical Geology, 2021, 560, 119999.	3.3	8
7	A late Paleoproterozoic (1.74 Ga) deep-sea, low-temperature, iron-oxidizing microbial hydrothermal vent community from Arizona, USA. Geobiology, 2021, 19, 228-249.	2.4	22
8	Reviews and syntheses: The biogeochemical cycle of silicon in the modern ocean. Biogeosciences, 2021, 18, 1269-1289.	3.3	124
9	Ge/Si and Ge Isotope Fractionation During Glacial and Non-glacial Weathering: Field and Experimental Data From West Greenland. Frontiers in Earth Science, 2021, 9, .	1.8	0
10	The Nickel isotope composition of the authigenic sink and the diagenetic flux in modern oceans. Chemical Geology, 2021, 563, 120050.	3.3	9
11	Does ultrafiltration kinetics bias iron isotope compositions?. Chemical Geology, 2021, 566, 120082.	3.3	1
12	$\delta^{60}\text{Ni}$ and $\delta^{13}\text{C}$ Composition of Serpentinites and Carbonates of the Tekirova Ophiolite, Turkey, and Meatiq Ophiolite, Egypt. Frontiers in Earth Science, 2021, 9, .	1.8	2
13	Early Neoproterozoic oxygenation dynamics along the northern margin of the West African Craton, Anti-Atlas Mountains, Morocco. Chemical Geology, 2021, 581, 120404.	3.3	3
14	Mn-micronodules from the sediments of the Clarion-Clipperton zone (Pacific Ocean): Origin, elemental source, and Fe-Cu-Zn-isotope composition. Chemical Geology, 2021, 580, 120388.	3.3	9
15	More than redox, biological organic ligands control iron isotope fractionation in the riparian wetland. Scientific Reports, 2021, 11, 1933.	3.3	5
16	Trace element proxies of seafloor hydrothermal fluids based on secondary ion mass spectrometry (SIMS) of black smoker chimney linings. Geochimica Et Cosmochimica Acta, 2020, 269, 346-375.	3.9	13
17	Triple iron isotope constraints on the role of ocean iron sinks in early atmospheric oxygenation. Science, 2020, 370, 446-449.	12.6	19
18	Ge and Si Isotope Behavior During Intense Tropical Weathering and Ecosystem Cycling. Global Biogeochemical Cycles, 2020, 34, e2019GB006522.	4.9	12

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19	Origin of the Oligocene manganese deposit at Obrochishte (Bulgaria): Insights from C, O, Fe, Sr, Nd, and Pb isotopes. <i>Ore Geology Reviews</i> , 2020, 122, 103550.	2.7	12
20	Large nickel isotope fractionation caused by surface complexation reactions with hexagonal birnessite. <i>Chemical Geology</i> , 2020, 537, 119481.	3.3	22
21	A First Look at Dissolved Ge Isotopes in Marine Sediments. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	8
22	Iron isotope fractionation in iron-organic matter associations: Experimental evidence using filtration and ultrafiltration. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 98-116.	3.9	19
23	Determination of the copper isotope composition of seawater revisited: A case study from the Mediterranean Sea. <i>Chemical Geology</i> , 2019, 511, 465-480.	3.3	36
24	Depositional setting of the Late Archean Fe oxide- and sulfide-bearing chert and graphitic argillite in the Shaw Dome, Abitibi greenstone belt, Canada. <i>Precambrian Research</i> , 2018, 311, 98-116.	2.7	12
25	Variable Ni isotope fractionation between Fe-oxyhydroxides and implications for the use of Ni isotopes as geochemical tracers. <i>Chemical Geology</i> , 2018, 481, 38-52.	3.3	47
26	Molybdenum record from black shales indicates oscillating atmospheric oxygen levels in the early Paleoproterozoic. <i>Numerische Mathematik</i> , 2018, 318, 275-299.	1.4	31
27	Geochemical and iron isotopic insights into hydrothermal iron oxyhydroxide deposit formation at Loihi Seamount. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 449-482.	3.9	51
28	Ge and Si isotope signatures in rivers: A quantitative multi-proxy approach. <i>Earth and Planetary Science Letters</i> , 2018, 503, 194-215.	4.4	27
29	Inter-calibration of a proposed new primary reference standard AA-ETH Zn for zinc isotopic analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 415-419.	3.0	86
30	Iron Isotope Systematics. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 415-510.	4.8	205
31	Germanium Isotope Geochemistry. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 601-656.	4.8	36
32	The isotope composition of inorganic germanium in seawater and deep sea sponges. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 99-118.	3.9	19
33	Sulfur and strontium isotopic study of epithermal mineralization: A case study from the SE Afar Rift, Djibouti. <i>Ore Geology Reviews</i> , 2017, 81, 358-368.	2.7	10
34	14 Germanium Isotope Geochemistry. , 2017, , .		1
35	11 Iron Isotope Systematics. , 2017, , 415-510.		7
36	Iron Transformation Pathways and Redox Micro-Environments in Seafloor Sulfide-Mineral Deposits: Spatially Resolved Fe XAS and $\delta^{57/54}\text{Fe}$ Observations. <i>Frontiers in Microbiology</i> , 2016, 7, 648.	3.5	20

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37	Origin of red beds in the Paleoproterozoic Franceville Basin, Gabon, and implications for sandstone-hosted uranium mineralization. <i>Numerische Mathematik</i> , 2016, 316, 839-872.	1.4	28
38	Enargite-luzonite hydrothermal vents in Manus Back-Arc Basin: submarine analogues of high-sulfidation epithermal mineralization. <i>Chemical Geology</i> , 2016, 438, 36-57.	3.3	21
39	Comparative geochemistry of four ferromanganese crusts from the Pacific Ocean and significance for the use of Ni isotopes as paleoceanographic tracers. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 214-235.	3.9	40
40	Geochemistry and iron isotope systematics of hydrothermal plume fall-out at East Pacific Rise 9°50'N. <i>Chemical Geology</i> , 2016, 441, 212-234.	3.3	53
41	The Joffre banded iron formation, Hamersley Group, Western Australia: Assessing the palaeoenvironment through detailed petrology and chemostratigraphy. <i>Precambrian Research</i> , 2016, 273, 12-37.	2.7	55
42	Tracing sources of crustal contamination using multiple S and Fe isotopes in the Hart komatiite-associated Ni-Cu-PGE sulfide deposit, Abitibi greenstone belt, Ontario, Canada. <i>Mineralium Deposita</i> , 2016, 51, 919-935.	4.1	22
43	<i>Pyrococcus kulkkanii</i> sp. nov., a hyperthermophilic, piezophilic archaeon isolated from a deep-sea hydrothermal vent. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3142-3149.	1.7	22
44	Iron isotope systematics in Arctic rivers. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 377-385.	1.2	36
45	Total dissolvable and dissolved iron isotopes in the water column of the Peru upwelling regime. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 66-82.	3.9	60
46	Coupled Ge/Si and Ge isotope ratios as geochemical tracers of seafloor hydrothermal systems: Case studies at Loihi Seamount and East Pacific Rise 9°50'N. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 93-112.	3.9	43
47	Nickel isotope fractionation during tropical weathering of ultramafic rocks. <i>Chemical Geology</i> , 2015, 402, 68-76.	3.3	83
48	Biogeochemical insights into microbe-mineral-fluid interactions in hydrothermal chimneys using enrichment culture. <i>Extremophiles</i> , 2015, 19, 597-617.	2.3	20
49	Early stages of core segregation recorded by Fe isotopes in an asteroidal mantle. <i>Earth and Planetary Science Letters</i> , 2015, 419, 93-100.	4.4	44
50	Iron mineral structure, reactivity, and isotopic composition in a South Pacific Gyre ferromanganese nodule over 4 Ma. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 61-79.	3.9	32
51	Hydrogen and copper isotope analysis of turquoise by SIMS: calibration and matrix effects. <i>Chemical Geology</i> , 2015, 395, 41-49.	3.3	22
52	The 2.1 Ga Old Francevillian Biota: Biogenicity, Taphonomy and Biodiversity. <i>PLoS ONE</i> , 2014, 9, e99438.	2.5	53
53	Cobalt and marine redox evolution. <i>Earth and Planetary Science Letters</i> , 2014, 390, 253-263.	4.4	95
54	Comparing orthomagmatic and hydrothermal mineralization models for komatiite-hosted nickel deposits in Zimbabwe using multiple-sulfur, iron, and nickel isotope data. <i>Mineralium Deposita</i> , 2014, 49, 75-100.	4.1	56

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55	Evidence for oxygenic photosynthesis half a billion years before the Great Oxidation Event. <i>Nature Geoscience</i> , 2014, 7, 283-286.	12.9	444
56	Coupled Fe and S isotope variations in pyrite nodules from Archean shale. <i>Earth and Planetary Science Letters</i> , 2014, 392, 67-79.	4.4	86
57	Nickel Isotope Variations in Terrestrial Silicate Rocks and Geological Reference Materials Measured by $^{63}\text{Ni}/^{64}\text{Ni}$. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 297-317.	3.1	91
58	Uranium in iron formations and the rise of atmospheric oxygen. <i>Chemical Geology</i> , 2013, 362, 82-90.	3.3	91
59	Coupled molybdenum, iron and uranium stable isotopes as oceanic paleoredox proxies during the Paleoproterozoic Shunga Event. <i>Chemical Geology</i> , 2013, 362, 193-210.	3.3	129
60	Native Cu from the oceanic crust: Isotopic insights into native metal origin. <i>Chemical Geology</i> , 2013, 359, 136-149.	3.3	28
61	Oxygen dynamics in the aftermath of the Great Oxidation of Earth's atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16736-16741.	7.1	112
62	7.10 Chemical Characteristics of Sediments and Seawater. <i>Frontiers in Earth Sciences</i> , 2013, , 1457-1514.	0.1	1
63	Oxygen consumption rates in subseafloor basaltic crust derived from a reaction transport model. <i>Nature Communications</i> , 2013, 4, 2539.	12.8	96
64	Evidence for Microbial Carbon and Sulfur Cycling in Deeply Buried Ridge Flank Basalt. <i>Science</i> , 2013, 339, 1305-1308.	12.6	210
65	The Role of Paragneiss Assimilation in the Origin of the Voisey's Bay Ni-Cu Sulfide Deposit, Labrador: Multiple S and Fe Isotope Evidence. <i>Economic Geology</i> , 2013, 108, 1459-1469.	3.8	30
66	Microbial colonization of basaltic glasses in hydrothermal organic-rich sediments at Guaymas Basin. <i>Frontiers in Microbiology</i> , 2013, 4, 250.	3.5	27
67	Multiple Sulfur and Iron Isotope Composition of Magmatic Ni-Cu-(PGE) Sulfide Mineralization from Eastern Botswana. <i>Economic Geology</i> , 2012, 107, 105-116.	3.8	71
68	GEOTRACES IC1 (BATS) contamination-prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 653-665.	2.0	98
69	IRON FORMATION: THE SEDIMENTARY PRODUCT OF A COMPLEX INTERPLAY AMONG MANTLE, TECTONIC, OCEANIC, AND BIOSPHERIC PROCESSES—A REPLY. <i>Economic Geology</i> , 2012, 107, 379-380.	3.8	20
70	Time-series analysis of two hydrothermal plumes at 9°50'N East Pacific Rise reveals distinct, heterogeneous bacterial populations. <i>Geobiology</i> , 2012, 10, 178-192.	2.4	54
71	Iron isotope fractionation in a sulfide-bearing subterranean estuary and its potential influence on oceanic Fe isotope flux. <i>Chemical Geology</i> , 2012, 300-301, 133-142.	3.3	21
72	Iron isotope composition of some Archean and Proterozoic iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 158-169.	3.9	147

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73	Sulfur-33 constraints on the origin of secondary pyrite in altered oceanic basement. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 323-340.	3.9	80
74	Measuring the Form of Iron in Hydrothermal Plume Particles. <i>Oceanography</i> , 2012, 25, 209-212.	1.0	43
75	An Intercomparison Study of the Germanium Isotope Composition of Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 149-159.	3.1	35
76	Glacial influence on the geochemistry of riverine iron fluxes to the Gulf of Alaska and effects of deglaciation. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	60
77	Aerobic bacterial pyrite oxidation and acid rock drainage during the Great Oxidation Event. <i>Nature</i> , 2011, 478, 369-373.	27.8	299
78	Surface-Generated Mesoscale Eddies Transport Deep-Sea Products from Hydrothermal Vents. <i>Science</i> , 2011, 332, 580-583.	12.6	98
79	Germanium isotopic systematics in Ge-rich coal from the Lincang Ge deposit, Yunnan, Southwestern China. <i>Chemical Geology</i> , 2011, , .	3.3	7
80	Dissolved and particulate organic carbon in hydrothermal plumes from the East Pacific Rise, 9°50'N. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 922-931.	1.4	65
81	Ultra-diffuse hydrothermal venting supports Fe-oxidizing bacteria and massive amber deposition at 5000m off Hawaii. <i>ISME Journal</i> , 2011, 5, 1748-1758.	9.8	97
82	Pleistocene recycling of copper at a porphyry system, Atacama Desert, Chile: Cu isotope evidence. <i>Mineralium Deposita</i> , 2011, 46, 1-7.	4.1	53
83	The evolution of the marine phosphate reservoir. <i>Nature</i> , 2010, 467, 1088-1090.	27.8	361
84	Iron Isotope Variations in Coastal Seawater Determined by Multicollector ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 135-144.	3.1	39
85	Rare earth element abundances in hydrothermal fluids from the Manus Basin, Papua New Guinea: Indicators of sub-seafloor hydrothermal processes in back-arc basins. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5494-5513.	3.9	137
86	Rare Earth Element and yttrium compositions of Archean and Paleoproterozoic Fe formations revisited: New perspectives on the significance and mechanisms of deposition. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6387-6405.	3.9	373
87	Geodiversity of hydrothermal processes along the Mid-Atlantic Ridge and ultramafic-hosted mineralization: A new type of oceanic Cu-Zn-Co-Au volcanogenic massive sulfide deposit. <i>Geophysical Monograph Series</i> , 2010, , 321-367.	0.1	89
88	Iron Formation: The Sedimentary Product of a Complex Interplay among Mantle, Tectonic, Oceanic, and Biospheric Processes. <i>Economic Geology</i> , 2010, 105, 467-508.	3.8	752
89	Atmospheric Sulfur in Archean Komatiite-Hosted Nickel Deposits. <i>Science</i> , 2009, 326, 1086-1089.	12.6	152
90	Preservation of iron(II) by carbon-rich matrices in a hydrothermal plume. <i>Nature Geoscience</i> , 2009, 2, 197-201.	12.9	200

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91	Redox Speciation and Distribution within Diverse Iron-dominated Microbial Habitats at Loihi Seamount. <i>Geomicrobiology Journal</i> , 2009, 26, 606-622.	2.0	77
92	Iron-oxidizing microbial ecosystems thrived in late Paleoproterozoic redox-stratified oceans. <i>Earth and Planetary Science Letters</i> , 2009, 286, 230-242.	4.4	166
93	Multiple sulphur and iron isotope composition of detrital pyrite in Archaean sedimentary rocks: A new tool for provenance analysis. <i>Earth and Planetary Science Letters</i> , 2009, 286, 436-445.	4.4	113
94	Advances in experimental and theoretical isotope geochemistry. <i>Chemical Geology</i> , 2009, 267, 109-110.	3.3	2
95	Iron isotope systematics in estuaries: The case of North River, Massachusetts (USA). <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4045-4059.	3.9	85
96	Iron isotope fractionation in a buoyant hydrothermal plume, 5°S Mid-Atlantic Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5619-5634.	3.9	100
97	Zinc stable isotopes in seafloor hydrothermal vent fluids and chimneys. <i>Earth and Planetary Science Letters</i> , 2008, 269, 17-28.	4.4	143
98	Sulfur isotope evidence for microbial sulfate reduction in altered oceanic basalts at ODP Site 801. <i>Earth and Planetary Science Letters</i> , 2008, 268, 110-123.	4.4	86
99	Iron isotope fractionation in subterranean estuaries. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3413-3430.	3.9	105
100	Re-Os results from ODP Site 801: Evidence for extensive Re uptake during alteration of oceanic crust. <i>Chemical Geology</i> , 2008, 248, 256-271.	3.3	25
101	Integrated Fe- and S-isotope study of seafloor hydrothermal vents at East Pacific Rise 9°10'N. <i>Chemical Geology</i> , 2008, 252, 214-227.	3.3	199
102	Sulfur isotope measurement of sulfate and sulfide by high-resolution MC-ICP-MS. <i>Chemical Geology</i> , 2008, 253, 102-113.	3.3	143
103	Suboxic deep seawater in the late Paleoproterozoic: Evidence from hematitic chert and iron formation related to seafloor-hydrothermal sulfide deposits, central Arizona, USA. <i>Earth and Planetary Science Letters</i> , 2007, 255, 243-256.	4.4	228
104	S-33 constraints on the seawater sulfate contribution in modern seafloor hydrothermal vent sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1170-1182.	3.9	184
105	Metal Stable Isotopes in Paleoceanography. <i>Annual Review of Earth and Planetary Sciences</i> , 2007, 35, 717-746.	11.0	293
106	Germanium isotopic variations in igneous rocks and marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3387-3400.	3.9	77
107	Mass spectrometry and natural variations of iron isotopes. <i>Mass Spectrometry Reviews</i> , 2006, 25, 515-550.	5.4	261
108	Natural Cadmium Isotopic Variations in Eight Geological Reference Materials (NIST SRM 2711, BCR 176,) <i>Geostandards and Geoanalytical Research</i> , 2005, 29, 95-106.	1.9	105

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109	Iron Isotope Constraints on the Archean and Paleoproterozoic Ocean Redox State. <i>Science</i> , 2005, 307, 1088-1091.	12.6	457
110	Subsurface processes at the lucky strike hydrothermal field, Mid-Atlantic ridge: evidence from sulfur, selenium, and iron isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2295-2311.	3.9	200
111	Copper Isotope Systematics of the Lucky Strike, Rainbow, and Logatchev Sea-Floor Hydrothermal Fields on the Mid-Atlantic Ridge. <i>Economic Geology</i> , 2004, 99, 585-600.	3.8	110
112	Iron isotope fractionation during oceanic crust alteration. <i>Chemical Geology</i> , 2003, 202, 155-182.	3.3	219
113	Antimony isotope variations in natural systems and implications for their use as geochemical tracers. <i>Chemical Geology</i> , 2003, 200, 25-40.	3.3	98
114	Natural variations of Se isotopic composition determined by hydride generation multiple collector inductively coupled plasma mass spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3191-3199.	3.9	138