

# Francis Albarede

## List of Publications by Year in descending order

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288  
papers

29,910  
citations

2802

94  
h-index

5393

164  
g-index

302  
all docs

302  
docs citations

302  
times ranked

13408  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Lu-Hf isotope geochemistry of chondrites and the evolution of the mantle-crust system. <i>Earth and Planetary Science Letters</i> , 1997, 148, 243-258.	4.4	2,854
2	Precise analysis of copper and zinc isotopic compositions by plasma-source mass spectrometry. <i>Chemical Geology</i> , 1999, 156, 251-273.	3.3	1,142
3	Relationships between Lu-Hf and Sm-Nd isotopic systems in the global sedimentary system. <i>Earth and Planetary Science Letters</i> , 1999, 168, 79-99.	4.4	936
4	Separation of Hf and Lu for high-precision isotope analysis of rock samples by magnetic sector-multiple collector ICP-MS. <i>Contributions To Mineralogy and Petrology</i> , 1997, 127, 248-260.	3.1	737
5	A short timescale for terrestrial planet formation from Hf-W chronometry of meteorites. <i>Nature</i> , 2002, 418, 949-952.	27.8	615
6	Zinc and its role in immunity and inflammation. <i>Autoimmunity Reviews</i> , 2015, 14, 277-285.	5.8	531
7	High-precision analysis of Pb isotope ratios by multi-collector ICP-MS. <i>Chemical Geology</i> , 2000, 167, 257-270.	3.3	491
8	Heterogeneous Hadean Hafnium: Evidence of Continental Crust at 4.4 to 4.5 Ga. <i>Science</i> , 2005, 310, 1947-1950.	12.6	476
9	Precise and accurate isotopic measurements using multiple-collector ICPMS. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2725-2744.	3.9	474
10	Rare-earth elements and uranium in high-temperature solutions from East Pacific Rise hydrothermal vent field (13 ÅN). <i>Nature</i> , 1983, 303, 795-797.	27.8	471
11	Crustal growth in West Africa at 2.1 Ga. <i>Journal of Geophysical Research</i> , 1992, 97, 345-369.	3.3	436
12	A major 2.1 Ga event of mafic magmatism in west Africa: An Early stage of crustal accretion. <i>Journal of Geophysical Research</i> , 1990, 95, 17605-17629.	3.3	430
13	The REE content of some hydrothermal fluids. <i>Chemical Geology</i> , 1986, 55, 51-60.	3.3	416
14	Volatile accretion history of the terrestrial planets and dynamic implications. <i>Nature</i> , 2009, 461, 1227-1233.	27.8	416
15	The Lu-Hf dating of garnets and the ages of the Alpine high-pressure metamorphism. <i>Nature</i> , 1997, 387, 586-589.	27.8	355
16	Nd isotopes in French Phanerozoic shales: external vs. internal aspects of crustal evolution. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 601-610.	3.9	349
17	Global structure of mantle isotopic heterogeneity and its implications for mantle differentiation and convection. <i>Earth and Planetary Science Letters</i> , 2010, 299, 339-351.	4.4	299
18	Kinetic disequilibrium in trace element partitioning between phenocrysts and host lava. <i>Geochimica Et Cosmochimica Acta</i> , 1972, 36, 141-156.	3.9	271

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19	Hf Isotope Evidence for Pelagic Sediments in the Source of Hawaiian Basalts. <i>Science</i> , 1999, 285, 879-882.	12.6	269
20	Analytical Methods for Non-Traditional Isotopes. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 55, 113-152.	4.8	258
21	How deep do common basaltic magmas form and differentiate?. <i>Journal of Geophysical Research</i> , 1992, 97, 10997-11009.	3.3	256
22	Systematic use of trace element in igneous process. <i>Contributions To Mineralogy and Petrology</i> , 1977, 60, 57-75.	3.1	243
23	Sulphur isotope variations in the mantle from ion microprobe analyses of micro-sulphide inclusions. <i>Earth and Planetary Science Letters</i> , 1989, 92, 144-156.	4.4	242
24	Ion-exchange fractionation of copper and zinc isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1499-1509.	3.9	232
25	The redox state of arc mantle using Zn/Fe systematics. <i>Nature</i> , 2010, 468, 681-685.	27.8	232
26	The growth of continental crust. <i>Tectonophysics</i> , 1998, 296, 1-14.	2.2	228
27	New Lu-Hf and Pb-Pb age constraints on the earliest animal fossils. <i>Earth and Planetary Science Letters</i> , 2002, 201, 203-212.	4.4	223
28	Zinc isotope variations in deep-sea carbonates from the eastern equatorial Pacific over the last 175 ka. <i>Earth and Planetary Science Letters</i> , 2003, 210, 167-178.	4.4	223
29	Chemistry of solutions from the 13°N East Pacific Rise hydrothermal site. <i>Earth and Planetary Science Letters</i> , 1984, 67, 297-307.	4.4	222
30	Density functional theory estimation of isotope fractionation of Fe, Ni, Cu, and Zn among species relevant to geochemical and biological environments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 553-576.	3.9	211
31	The assessment of REE patterns and 143Nd/144Nd ratios in fish remains. <i>Earth and Planetary Science Letters</i> , 1987, 84, 181-196.	4.4	205
32	87Sr/86Sr ratios in hydrothermal waters and deposits from the East Pacific Rise at 21°N. <i>Earth and Planetary Science Letters</i> , 1981, 55, 229-236.	4.4	199
33	The Geochemical Regimes of Piton de la Fournaise Volcano (Reunion) During the Last 530 000 Years. <i>Journal of Petrology</i> , 1997, 38, 171-201.	2.8	199
34	Zn and Cu isotopic variations in chondrites and iron meteorites: Early solar nebula reservoirs and parent-body processes. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5351-5363.	3.9	189
35	Abundance of zinc isotopes as a marine biogeochemical tracer. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, .	2.5	180
36	An improved U-Th-Pb age calculation for electron microprobe dating of monazite. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4509-4522.	3.9	178

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37	Hafnium isotopes in Jack Hills zircons and the formation of the Hadean crust. <i>Earth and Planetary Science Letters</i> , 2008, 265, 686-702.	4.4	177
38	Secular boron isotope variations in the continental crust: an ion microprobe study. <i>Earth and Planetary Science Letters</i> , 1992, 108, 229-241.	4.4	174
39	Isotopic composition of zinc, copper, and iron in lunar samples. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 6103-6117.	3.9	174
40	Hf <sup>ε</sup> -Nd isotopic evolution of the lower crust. <i>Earth and Planetary Science Letters</i> , 2000, 181, 115-129.	4.4	172
41	<sup>147</sup> Sm- <sup>143</sup> Nd and <sup>176</sup> Lu- <sup>176</sup> Hf in eucrites and the differentiation of the HED parent body. <i>Earth and Planetary Science Letters</i> , 2002, 204, 167-181.	4.4	171
42	<sup>142</sup> Nd evidence for early Earth differentiation. <i>Earth and Planetary Science Letters</i> , 2003, 214, 427-442.	4.4	169
43	Hafnium isotope evidence from Archean granitic rocks for deep-mantle origin of continental crust. <i>Earth and Planetary Science Letters</i> , 2012, 337-338, 211-223.	4.4	169
44	The Stable Isotope Geochemistry of Copper and Zinc. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 55, 409-427.	4.8	157
45	Rare earth elements in old biogenic apatites. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2507-2514.	3.9	156
46	Sulphur isotope heterogeneity in the mantle from ion microprobe measurements of sulphide inclusions in diamonds. <i>Nature</i> , 1987, 330, 242-244.	27.8	153
47	The Lu- <sup>ε</sup> -Hf isotope geochemistry of shergottites and the evolution of the Martian mantle- <sup>ε</sup> -crust system. <i>Earth and Planetary Science Letters</i> , 1999, 173, 25-39.	4.4	153
48	The evolution of Mauna Kea Volcano, Hawaii: Petrogenesis of tholeiitic and alkalic basalts. <i>Journal of Geophysical Research</i> , 1991, 96, 14347-14375.	3.3	149
49	Pb- <sup>ε</sup> -Pb dating constraints on the accretion and cooling history of chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1583-1604.	3.9	148
50	Lu-Hf Isotope Systematics of Garnet Pyroxenites from Beni Bousera, Morocco: Implications for Basalt Origin. <i>Science</i> , 1999, 283, 1303-1306.	12.6	146
51	Were komatiites wet?. <i>Geology</i> , 1998, 26, 739.	4.4	142
52	Theistareykir revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	142
53	Isotopic and elemental abundances of copper and zinc in lunar samples, Zagami, Pele <sup>ε</sup> 's hairs, and a terrestrial basalt. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5884-5904.	3.9	142
54	The Nd and Hf isotopic evolution of the mantle through the Archean. results from the Isua supracrustals, West Greenland, and from the Birimian terranes of West Africa. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3901-3914.	3.9	140

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55	Copper isotope fractionation between aqueous compounds relevant to low temperature geochemistry and biology. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 29-44.	3.9	140
56	Precise lead isotope measurements by the double spike technique: A reconsideration. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 173-182.	3.9	134
57	Natural variations of copper and sulfur stable isotopes in blood of hepatocellular carcinoma patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 982-985.	7.1	133
58	Modelling the Recent Geochemical Evolution of the Piton de la Fournaise Volcano, Reunion Island, 1931-1986. <i>Journal of Petrology</i> , 1988, 29, 997-1030.	2.8	132
59	Extreme temporal homogeneity of helium isotopes at Piton de la Fournaise, Réunion Island. <i>Nature</i> , 1990, 347, 545-548.	27.8	131
60	The origin of Zn isotope fractionation in sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7632-7643.	3.9	131
61	Upwelling of deep mantle material through a plate window: Evidence from the geochemistry of Italian basaltic volcanics. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 7-1-ECV 7-19.	3.3	130
62	Isotopic fractionation and transport mechanisms of Zn in plants. <i>Chemical Geology</i> , 2009, 267, 125-130.	3.3	124
63	Precise and accurate neodymium isotopic measurements by plasma-source mass spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4847-4854.	3.9	123
64	The age of SNC meteorites and the antiquity of the Martian surface. <i>Earth and Planetary Science Letters</i> , 2005, 240, 221-233.	4.4	123
65	Hawaiian hot spot dynamics as inferred from the Hf and Pb isotope evolution of Mauna Kea volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	122
66	Petrological and geochemical mass-balance equations: an algorithm for least-square fitting and general error analysis. <i>Computers and Geosciences</i> , 1977, 3, 309-326.	4.2	121
67	Hydrogen isotope heterogeneities in the mantle from ion probe analysis of amphiboles from ultramafic rocks. <i>Earth and Planetary Science Letters</i> , 1991, 105, 543-553.	4.4	121
68	Martian meteorite chronology and the evolution of the interior of Mars. <i>Earth and Planetary Science Letters</i> , 2009, 280, 285-295.	4.4	121
69	A Hf-Nd isotopic correlation in ferromanganese nodules. <i>Geophysical Research Letters</i> , 1998, 25, 3895-3898.	4.0	120
70	The transition from alkali basalts to kimberlites: Isotope and trace element evidence from melilitites. <i>Contributions To Mineralogy and Petrology</i> , 1983, 82, 176-186.	3.1	119
71	The case for old basaltic shergottites. <i>Earth and Planetary Science Letters</i> , 2008, 266, 105-124.	4.4	117
72	Exhumation of eclogites: insights from depth-time path analysis. <i>Tectonophysics</i> , 1997, 280, 125-140.	2.2	115

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73	$\hat{I}^3$ -ray irradiation in the early Solar System and the conundrum of the $^{176}\text{Lu}$ decay constant. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1261-1270.	3.9	115
74	Lead isotopic composition of Hercynian granitic K-feldspars constrains continental genesis. <i>Nature</i> , 1981, 291, 460-464.	27.8	114
75	Comparative stable isotope geochemistry of Ni, Cu, Zn, and Fe in chondrites and iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4365-4379.	3.9	114
76	Isotope and trace element geochemistry of Colorado Plateau volcanics. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2735-2750.	3.9	113
77	Time-dependent models of $\text{U} \rightarrow \text{Th} \rightarrow \text{He}$ and $\text{K} \rightarrow \text{Ar}$ evolution and the layering of mantle convection. <i>Chemical Geology</i> , 1998, 145, 413-429.	3.3	113
78	Age and significance of the North Pyrenean metamorphism. <i>Earth and Planetary Science Letters</i> , 1978, 40, 327-332.	4.4	112
79	The spectra of isotopic heterogeneities along the mid-Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2005, 238, 96-109.	4.4	112
80	Contrasting Cu, Fe, and Zn isotopic patterns in organs and body fluids of mice and sheep, with emphasis on cellular fractionation. <i>Metallomics</i> , 2013, 5, 1470.	2.4	111
81	The genesis of Variscan (Hercynian) plutonic rocks: Inferences from Sr, Pb, and O studies on the Maladeta igneous complex, central Pyrenees (Spain). <i>Contributions To Mineralogy and Petrology</i> , 1980, 72, 57-72.	3.1	110
82	World map of Nd isotopes in sea-floor ferromanganese deposits. <i>Geology</i> , 1992, 20, 761.	4.4	110
83	Active submarine volcanism on the society hotspot swell (west Pacific): A geochemical study. <i>Journal of Geophysical Research</i> , 1990, 95, 5049-5066.	3.3	107
84	Geochemical segmentation of the Mid-Atlantic Ridge north of Iceland and ridge-hot spot interaction in the North Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	106
85	A GEOLOGICAL PERSPECTIVE ON THE USE OF Pb ISOTOPES IN ARCHAEOLOGY. <i>Archaeometry</i> , 2012, 54, 853-867.	1.3	106
86	Coupled $^{63}\text{Cu}$ and $^{16}\text{O}$ excesses in chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 143-151.	3.9	105
87	The Pb-Sr-Nd isotope geochemistry of some recent circum-Mediterranean granites. <i>Contributions To Mineralogy and Petrology</i> , 1986, 92, 331-340.	3.1	104
88	The neodymium isotopic composition of manganese nodules from the Southern and Indian oceans, the global oceanic neodymium budget, and their bearing on deep ocean circulation. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1277-1291.	3.9	104
89	Isotopic portrayal of the Earth's upper mantle flow field. <i>Nature</i> , 2007, 447, 1069-1074.	27.8	104
90	Isotopic evidence of unaccounted for Fe and Cu erythropoietic pathways. <i>Metallomics</i> , 2011, 3, 926.	2.4	104

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91	11B/10B analysis of geological materials by ICP-MS Plasma 54: Application to the boron fractionation between brachiopod calcite and seawater. <i>Chemical Geology</i> , 2002, 186, 45-55.	3.3	101
92	Asteroidal impacts and the origin of terrestrial and lunar volatiles. <i>Icarus</i> , 2013, 222, 44-52.	2.5	99
93	Copper isotope effect in serum of cancer patients. A pilot study. <i>Metallomics</i> , 2015, 7, 299-308.	2.4	99
94	Intense hydrothermal activity at the axis of the east pacific rise near 13½°N: Sundersible witnesses the growth of sulfide chimney. <i>Marine Geophysical Researches</i> , 1983, 6, 1-14.	1.2	98
95	Geochemistry of Non-Traditional Stable Isotopes. , 2004, , .		97
96	The rise of continents—An essay on the geologic consequences of photosynthesis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 232, 99-113.	2.3	96
97	Lu-Hf and Pb-Sr geochronology of apatites from Proterozoic terranes: A first look at Lu-Hf isotopic closure in metamorphic apatite. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1847-1859.	3.9	94
98	Isotopic Ag-Cu-Pb record of silver circulation through 16th-18th century Spain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9002-9007.	7.1	93
99	Zoned mantle convection. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002, 360, 2569-2592.	3.4	92
100	The nuclear field shift effect in chemical exchange reactions. <i>Chemical Geology</i> , 2009, 267, 139-156.	3.3	91
101	Early Archean serpentine mud volcanoes at Isua, Greenland, as a niche for early life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17639-17643.	7.1	90
102	Ion probe measurement of rare earth elements in biogenic phosphates. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 3179-3183.	3.9	87
103	Overview and General Concepts. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 55, 1-24.	4.8	87
104	Lead in ancient Rome's city waters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6594-6599.	7.1	86
105	Pb, Hf and Nd isotope compositions of the two Réunion volcanoes (Indian Ocean): A tale of two small-scale mantle "blobs". <i>Earth and Planetary Science Letters</i> , 2008, 265, 748-765.	4.4	85
106	Nature of volatile depletion and genetic relationships in enstatite chondrites and aubrites inferred from Zn isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 297-307.	3.9	85
107	Evidence from Sardinian basalt geochemistry for recycling of plume heads into the Earth's mantle. <i>Nature</i> , 2000, 408, 701-704.	27.8	80
108	Hydrothermal uranium uptake at ridge crests. <i>Nature</i> , 1985, 317, 244-246.	27.8	78

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109	Residence time analysis of geochemical fluctuations in volcanic series. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 615-621.	3.9	78
110	$^{238}\text{U}/^{206}\text{Pb}$ - $^{235}\text{U}/^{207}\text{Pb}$ - $^{232}\text{Th}/^{208}\text{Pb}$ zircon geochronology in alpine and non-alpine environment. <i>Contributions To Mineralogy and Petrology</i> , 1974, 43, 163-194.	3.1	76
111	Isotopic constraints on the cooling of the continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2004, 223, 99-111.	4.4	74
112	$\text{U}\text{-}^{238}\text{Pb}$ dating of fossil enamel from the Swartkrans Pleistocene hominid site, South Africa. <i>Earth and Planetary Science Letters</i> , 2008, 267, 236-246.	4.4	73
113	The 'Daly gap' as a magmatic catastrophe. <i>Nature</i> , 1995, 378, 270-272.	27.8	69
114	Nuclear field vs. nucleosynthetic effects as cause of isotopic anomalies in the early Solar System. <i>Earth and Planetary Science Letters</i> , 2006, 247, 1-9.	4.4	69
115	Formation of solar nebula reservoirs by mixing chondritic components. <i>Earth and Planetary Science Letters</i> , 2006, 248, 650-660.	4.4	67
116	Ab Initio Calculation of the Zn Isotope Effect in Phosphates, Citrates, and Malates and Applications to Plants and Soil. <i>PLoS ONE</i> , 2012, 7, e30726.	2.5	67
117	Trench investigations through the trace of the 1980 El Asnam thrust fault: Evidence for paleoseismicity. <i>Bulletin of the Seismological Society of America</i> , 1988, 78, 979-999.	2.3	67
118	Lower export production during glacial periods in the equatorial Pacific derived from $(^{231}\text{Pa}/^{230}\text{Th})_{\text{xs}}$ measurements in deep-sea sediments. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	66
119	Constraints on source-forming processes of West Greenland kimberlites inferred from $\text{Hf}\text{-}^{142}\text{Nd}$ isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2820-2836.	3.9	66
120	Medical applications of Cu, Zn, and S isotope effects. <i>Metallomics</i> , 2016, 8, 1056-1070.	2.4	66
121	Evidence for slowly changing $^{87}\text{Sr}/^{86}\text{Sr}$ in runoff from freshwater limestones of southern France. <i>Chemical Geology</i> , 1987, 64, 55-65.	3.3	65
122	Geochemical component relationships in MORB from the Mid-Atlantic Ridge, $22^{\circ}\text{-}35^{\circ}\text{N}$ . <i>Earth and Planetary Science Letters</i> , 2006, 241, 844-862.	4.4	65
123	The Solar System primordial lead. <i>Earth and Planetary Science Letters</i> , 2010, 300, 152-163.	4.4	65
124	An intrinsic volatility scale relevant to the Earth and Moon and the status of water in the Moon. <i>Meteoritics and Planetary Science</i> , 2015, 50, 568-577.	1.6	62
125	The Sm/Nd secular evolution of the continental crust and the depleted mantle. <i>Earth and Planetary Science Letters</i> , 1987, 82, 25-35.	4.4	61
126	Bodily variability of zinc natural isotope abundances in sheep. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 605-612.	1.5	61



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127	The Re and $\mu\text{Nd}$ of 40–70 Ma old fish debris from the west African platform. <i>Geophysical Research Letters</i> , 1988, 15, 389-392.	4.0	60
128	Fe and Cu stable isotopes in archeological human bones and their relationship to sex. <i>American Journal of Physical Anthropology</i> , 2012, 148, 334-340.	2.1	60
129	A $\text{Zn}$ isotope perspective on the rise of continents. <i>Geobiology</i> , 2013, 11, 201-214.	2.4	60
130	Is aging recorded in blood Cu and Zn isotope compositions?. <i>Metallomics</i> , 2013, 5, 1016-1024.	2.4	60
131	Unscrambling the lead model ages. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 207-212.	3.9	59
132	Transfer of continental Mg, S, O and U to the mantle through hydrothermal alteration of the oceanic crust. <i>Chemical Geology</i> , 1986, 57, 1-15.	3.3	58
133	Hf–Nd isotope evidence for a transient dynamic regime in the early terrestrial mantle. <i>Nature</i> , 2000, 404, 488-490.	27.8	57
134	Phosphate Lu–Hf geochronology. <i>Chemical Geology</i> , 2003, 200, 241-253.	3.3	57
135	Cryptic striations in the upper mantle revealed by hafnium isotopes in southeast Indian ridge basalts. <i>Nature</i> , 2006, 440, 199-202.	27.8	57
136	Short-Lived Chemical Heterogeneities in the Archean Mantle with Implications for Mantle Convection. <i>Science</i> , 1994, 263, 1593-1596.	12.6	56
137	Source enrichment processes responsible for isotopic anomalies in oceanic island basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2699-2724.	3.9	56
138	Rare-earth patterns in zircons from the Manaslu granite and Tibetan Slab migmatites (Himalaya) : insights in the origin and evolution of a crustally-derived granite magma. <i>Chemical Geology</i> , 1995, 125, 1-17.	3.3	54
139	The U/Pb ratio of the Earth's mantle—A signature of late volatile addition. <i>Earth and Planetary Science Letters</i> , 2013, 362, 237-245.	4.4	54
140	Thermal models of post-tectonic decompression as exemplified by the Haut-Allier granulites (Massif Central, France). <i>Earth and Planetary Science Letters</i> , 2000, 182, 107-120.	2.2	52
141	Late Holocene earthquake sequences on the El Asnam (Algeria) thrust fault. <i>Earth and Planetary Science Letters</i> , 1988, 90, 187-203.	4.4	52
142	Decoupled isotopic record of ridge and subduction zone processes in oceanic basalts by independent component analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	52
143	40K-40Ar Constraints on Recycling Continental Crust into the Mantle. <i>Science</i> , 2000, 288, 845-847.	12.6	51
144	Rogue Mantle Helium and Neon. <i>Science</i> , 2008, 319, 943-945.	12.6	50

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145	Mass-Independent Isotope Fractionation of Molybdenum and Ruthenium and the Origin of Isotopic Anomalies in Murchison. <i>Astrophysical Journal</i> , 2006, 647, 1506-1516.	4.5	48
146	Geology of an active hot spot: Teahitia-Mehetia region in the South Central Pacific. <i>Marine Geophysical Researches</i> , 1989, 11, 27-50.	1.2	47
147	A unique lower mantle source for Southern Italy volcanics. <i>Earth and Planetary Science Letters</i> , 2007, 259, 227-238.	4.4	47
148	Metal Stable Isotopes in the Human Body: A Tribute of Geochemistry to Medicine. <i>Elements</i> , 2015, 11, 265-269.	0.5	47
149	Copper transporters are responsible for copper isotopic fractionation in eukaryotic cells. <i>Scientific Reports</i> , 2017, 7, 44533.	3.3	47
150	Mixing of isotopic heterogeneities in the Mauna Kea plume conduit. <i>Earth and Planetary Science Letters</i> , 2009, 282, 190-200.	4.4	46
151	The early formation of the IVA iron meteorite parent body. <i>Earth and Planetary Science Letters</i> , 2010, 296, 469-480.	4.4	46
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