

Francis Albarede

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

280
papers

25,023
citations

87
h-index

151
g-index

301
ext. papers

27,255
ext. citations

8.3
avg, IF

7.05
L-index

#	Paper	IF	Citations
280	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	5.3	2491
279	Precise analysis of copper and zinc isotopic compositions by plasma-source mass spectrometry. <i>Chemical Geology</i> , 1999 , 156, 251-273	4.2	939
278	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	5.3	804
277	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	3.5	611
276	A short timescale for terrestrial planet formation from Hf-W chronometry of meteorites. <i>Nature</i> , 2002 , 418, 949-52	50.4	514
275	High-precision analysis of Pb isotope ratios by multi-collector ICP-MS. <i>Chemical Geology</i> , 2000 , 167, 257-270	4.2	424
274	Precise and accurate isotopic measurements using multiple-collector ICPMS. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 2725-2744	5.5	422
273	Rare-earth elements and uranium in high-temperature solutions from East Pacific Rise hydrothermal vent field (13 °N). <i>Nature</i> , 1983 , 303, 795-797	50.4	412
272	Heterogeneous Hadean hafnium: evidence of continental crust at 4.4 to 4.5 ga. <i>Science</i> , 2005 , 310, 1947-50	35.3	403
271	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		361
270	Crustal growth in West Africa at 2.1 Ga. <i>Journal of Geophysical Research</i> , 1992 , 97, 345		355
269	Zinc and its role in immunity and inflammation. <i>Autoimmunity Reviews</i> , 2015 , 14, 277-85	13.6	351
268	The REE content of some hydrothermal fluids. <i>Chemical Geology</i> , 1986 , 55, 51-60	4.2	340
267	Volatile accretion history of the terrestrial planets and dynamic implications. <i>Nature</i> , 2009 , 461, 1227-33	50.4	324
266	Nd isotopes in French Phanerozoic shales: external vs. internal aspects of crustal evolution. <i>Geochimica Et Cosmochimica Acta</i> , 1985 , 49, 601-610	5.5	314
265	The Lu-Hf dating of garnets and the ages of the Alpine high-pressure metamorphism. <i>Nature</i> , 1997 , 387, 586-589	50.4	313
264	Kinetic disequilibrium in trace element partitioning between phenocrysts and host lava. <i>Geochimica Et Cosmochimica Acta</i> , 1972 , 36, 141-156	5.5	243

263	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	5.3	234
262	Hf isotope evidence for pelagic sediments in the source of hawaiian basalts. <i>Science</i> , 1999 , 285, 879-82	33.3	232
261	Systematic use of trace element in igneous process. <i>Contributions To Mineralogy and Petrology</i> , 1977 , 60, 57-75	3.5	222
260	Analytical Methods for Non-Traditional Isotopes. <i>Reviews in Mineralogy and Geochemistry</i> , 2004 , 55, 113-152	15.2	217
259	How deep do common basaltic magmas form and differentiate?. <i>Journal of Geophysical Research</i> , 1992 , 97, 10997		214
258	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	5.3	206
257	Chemistry of solutions from the 13°N East Pacific Rise hydrothermal site. <i>Earth and Planetary Science Letters</i> , 1984 , 67, 297-307	5.3	205
256	Ion-exchange fractionation of copper and zinc isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1499-1509	15.2	200
255	The growth of continental crust. <i>Tectonophysics</i> , 1998 , 296, 1-14	3.1	198
254	New Lu/Hf and Pb/Pb age constraints on the earliest animal fossils. <i>Earth and Planetary Science Letters</i> , 2002 , 201, 203-212	5.3	189
253	Introduction to Geochemical Modeling 1995 ,		188
252	The redox state of arc mantle using Zn/Fe systematics. <i>Nature</i> , 2010 , 468, 681-5	50.4	185
251	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	3.9	184
250	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	5.3	179
249	⁸⁷ Sr/ ⁸⁶ Sr 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	5.3	177
248	The assessment of REE patterns and ¹⁴³ Nd/ ¹⁴⁴ Nd ratios in fish remains. <i>Earth and Planetary Science Letters</i> , 1987 , 84, 181-196	5.3	171
247	An improved U-Th-Pb age calculation for electron microprobe dating of monazite. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 4509-4522	5.5	163
246	Hafnium isotopes in Jack Hills zircons and the formation of the Hadean crust. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 686-702	5.3	153

245	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	5.5	152
244	Abundance of zinc isotopes as a marine biogeochemical tracer. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1,	3.6	152
243	Secular boron isotope variations in the continental crust: an ion microprobe study. <i>Earth and Planetary Science Letters</i> , 1992 , 108, 229-241	5.3	152
242	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	5.5	151
241	Hf/Nd isotopic evolution of the lower crust. <i>Earth and Planetary Science Letters</i> , 2000 , 181, 115-129	5.3	149
240	^{147}Sm - ^{143}Nd and ^{176}Lu - ^{176}Hf in eucrites and the differentiation of the HED parent body. <i>Earth and Planetary Science Letters</i> , 2002 , 204, 167-181	5.3	147
239	^{142}Nd evidence for early Earth differentiation. <i>Earth and Planetary Science Letters</i> , 2003 , 214, 427-442	5.3	144
238	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	5.3	138
237	The Lu/Hf isotope geochemistry of shergottites and the evolution of the Martian mantle-crust system. <i>Earth and Planetary Science Letters</i> , 1999 , 173, 25-39	5.3	137
236	Isotopic composition of zinc, copper, and iron in lunar samples. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 6103-6117	5.5	135
235	Rare earth elements in old biogenic apatites. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 2507-2514	5.5	135
234	Pb/Pb dating constraints on the accretion and cooling history of chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 1583-1604	5.5	132
233	Theistareykir revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	132
232	Sulphur isotope heterogeneity in the mantle from ion microprobe measurements of sulphide inclusions in diamonds. <i>Nature</i> , 1987 , 330, 242-244	50.4	130
231	Lu-Hf Isotope Systematics of Garnet Pyroxenites from Beni Bousera, Morocco: Implications for Basalt Origin. <i>Science</i> , 1999 , 283, 1303-1306	33.3	129
230	The evolution of Mauna Kea Volcano, Hawaii: Petrogenesis of tholeiitic and alkalic basalts. <i>Journal of Geophysical Research</i> , 1991 , 96, 14347-14375		127
229	Extreme temporal homogeneity of helium isotopes at Piton de la Fournaise, Réunion Island. <i>Nature</i> , 1990 , 347, 545-548	50.4	125
228	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	5.5	123

227	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	3.9	122
226	The Stable Isotope Geochemistry of Copper and Zinc. <i>Reviews in Mineralogy and Geochemistry</i> , 2004 , 55, 409-427	7.1	120
225	Precise lead isotope measurements by the double spike technique: A reconsideration. <i>Geochimica Et Cosmochimica Acta</i> , 1985 , 49, 173-182	5.5	117
224	Isotopic fractionation and transport mechanisms of Zn in plants. <i>Chemical Geology</i> , 2009 , 267, 125-130	4.2	111
223	Hawaiian hot spot dynamics as inferred from the Hf and Pb isotope evolution of Mauna Kea volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	110
222	Isotopic and elemental abundances of copper and zinc in lunar samples, Zagami, Peleñ hairs, and a terrestrial basalt. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 5884-5904	5.5	109
221	Were komatiites wet?. <i>Geology</i> , 1998 , 26, 739	5	109
220	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	5.3	109
219	Precise and accurate neodymium isotopic measurements by plasma-source mass spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 4847-4854	5.5	108
218	The age of SNC meteorites and the antiquity of the Martian surface. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 221-233	5.3	108
217	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	3.5	108
216	Age and significance of the North Pyrenean metamorphism. <i>Earth and Planetary Science Letters</i> , 1978 , 40, 327-332	5.3	107
215	Copper isotope fractionation between aqueous compounds relevant to low temperature geochemistry and biology. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 110, 29-44	5.5	106
214	Exhumation of eclogites: insights from depth-time path analysis. <i>Tectonophysics</i> , 1997 , 280, 125-140	3.1	105
213	The origin of Zn isotope fractionation in sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 7632-7643	5.5	104
212	The case for old basaltic shergottites. <i>Earth and Planetary Science Letters</i> , 2008 , 266, 105-124	5.3	104
211	A Hf-Nd isotopic correlation in ferromanganese nodules. <i>Geophysical Research Letters</i> , 1998 , 25, 3895-3898	4.9	104
210	Isotope and trace element geochemistry of Colorado Plateau volcanics. <i>Geochimica Et Cosmochimica Acta</i> , 1986 , 50, 2735-2750	5.5	104

209	Time-dependent models of U ²³⁸ and K ⁴⁰ evolution and the layering of mantle convection. <i>Chemical Geology</i> , 1998 , 145, 413-429	4.2	102
208	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, 9825-9830	11.5	101
207	Lead isotopic composition of Hercynian granitic K-feldspars constrains continental genesis. <i>Nature</i> , 1981 , 291, 460-464	50.4	101
206	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	4.5	101
205	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		100
204	Active submarine volcanism on the society hotspot swell (west Pacific): A geochemical study. <i>Journal of Geophysical Research</i> , 1990 , 95, 5049		100
203	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	3.5	99
202	World map of Nd isotopes in sea-floor ferromanganese deposits. <i>Geology</i> , 1992 , 20, 761	5	98
201	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	5.5	97
200	The spectra of isotopic heterogeneities along the mid-Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2005 , 238, 96-109	5.3	97
199	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	3.6	95
198	Martian meteorite chronology and the evolution of the interior of Mars. <i>Earth and Planetary Science Letters</i> , 2009 , 280, 285-295	5.3	94
197	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	5.5	92
196	Isotopic evidence of unaccounted for Fe and Cu erythropoietic pathways. <i>Metallomics</i> , 2011 , 3, 926-33	4.5	91
195	Ray irradiation in the early Solar System and the conundrum of the ¹⁷⁶ Lu decay constant. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 1261-1270	5.5	90
194	The Pb-Sr-Nd isotope geochemistry of some recent circum-Mediterranean granites. <i>Contributions To Mineralogy and Petrology</i> , 1986 , 92, 331-340	3.5	89
193	Isotopic portrayal of the Earth's upper mantle flow field. <i>Nature</i> , 2007 , 447, 1069-74	50.4	86
192	¹¹ B/ ¹⁰ B 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	4.2	86

191	Coupled ⁶³ Cu and ¹⁶ O excesses in chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 143-151	5.5	85
190	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, 1470-82	4.5	84
189	Intense hydrothermal activity at the axis of the east pacific rise near 13°N: Sumbersible witnesses the growth of sulfide chimney. <i>Marine Geophysical Researches</i> , 1983 , 6, 1-14	2.3	82
188	A GEOLOGICAL PERSPECTIVE ON THE USE OF Pb ISOTOPES IN ARCHAEOOMETRY. <i>Archaeometry</i> , 2012 , 54, 853-867	1.6	81
187	Asteroidal impacts and the origin of terrestrial and lunar volatiles. <i>Icarus</i> , 2013 , 222, 44-52	3.8	78
186	The nuclear field shift effect in chemical exchange reactions. <i>Chemical Geology</i> , 2009 , 267, 139-156	4.2	77
185	The rise of continentsAn essay on the geologic consequences of photosynthesis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006 , 232, 99-113	2.9	77
184	Zoned mantle convection. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002 , 360, 2569-92	3	77
183	Ion probe measurement of rare earth elements in biogenic phosphates. <i>Geochimica Et Cosmochimica Acta</i> , 1989 , 53, 3179-3183	5.5	75
182	Copper isotope effect in serum of cancer patients. A pilot study. <i>Metallomics</i> , 2015 , 7, 299-308	4.5	74
181	Overview and General Concepts. <i>Reviews in Mineralogy and Geochemistry</i> , 2004 , 55, 1-24	7.1	72
180	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, 17639-43	11.5	71
179	Pb, Hf and Nd isotope compositions of the two RUnion volcanoes (Indian Ocean): A tale of two small-scale mantle Blobs. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 748-765	5.3	71
178	Hydrothermal uranium uptake at ridge crests. <i>Nature</i> , 1985 , 317, 244-246	50.4	71
177	Residence time analysis of geochemical fluctuations in volcanic series. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 615-621	5.5	70
176	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, 9002-7	11.5	69
175	Evidence from Sardinian basalt geochemistry for recycling of plume heads into the Earth's mantle. <i>Nature</i> , 2000 , 408, 701-4	50.4	69
174	Lead in ancient Rome's city waters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6594-9	11.5	65

173	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	5.5	64
172	Isotopic constraints on the cooling of the continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2004 , 223, 99-111	5.3	64
171	²³⁸ U/ ²⁰⁶ Pb- ²³⁵ U/ ²⁰⁷ Pb- ²³² Th/ ²⁰⁸ Pb zircon geochronology in alpine and non-alpine environment. <i>Contributions To Mineralogy and Petrology</i> , 1974 , 43, 163-194	3.5	64
170	Geochemistry of Non-Traditional Stable Isotopes 2004 ,		64
169	Geochemical component relationships in MORB from the Mid-Atlantic Ridge, 22°5'N. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 844-862	5.3	62
168	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	5.5	61
167	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	5.3	61
166	Constraints on source-forming processes of West Greenland kimberlites inferred from Hf-Nd isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2820-2836	5.5	59
165	²⁰⁷ Pb dating of fossil enamel from the Swartkrans Pleistocene hominid site, South Africa. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 236-246	5.3	58
164	The Sm/Nd secular evolution of the continental crust and the depleted mantle. <i>Earth and Planetary Science Letters</i> , 1987 , 82, 25-35	5.3	58
163	Evidence for slowly changing ⁸⁷ Sr/ ⁸⁶ Sr in runoff from freshwater limestones of southern France. <i>Chemical Geology</i> , 1987 , 64, 55-65	4.2	58
162	Lower export production during glacial periods in the equatorial Pacific derived from (²³¹ Pa/ ²³⁰ Th) _{xs,0} measurements in deep-sea sediments. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		57
161	The 'Daly gap' as a magmatic catastrophe. <i>Nature</i> , 1995 , 378, 270-272	5.4	57
160	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	3.7	56
159	Is aging recorded in blood Cu and Zn isotope compositions?. <i>Metallomics</i> , 2013 , 5, 1016-24	4.5	55
158	Formation of solar nebula reservoirs by mixing chondritic components. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 650-660	5.3	55
157	Bodily variability of zinc natural isotope abundances in sheep. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 605-12	2.2	53
156	The Re and Nd of 4070 Ma old fish debris from the west-African platform. <i>Geophysical Research Letters</i> , 1988 , 15, 389-392	4.9	53

155	Fe and Cu stable isotopes in archeological human bones and their relationship to sex. <i>American Journal of Physical Anthropology</i> , 2012 , 148, 334-40	2.5	52
154	The Solar System primordial lead. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 152-163	5.3	52
153	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	2.8	51
152	Hf-Nd isotope evidence for a transient dynamic regime in the early terrestrial mantle. <i>Nature</i> , 2000 , 404, 488-90	50.4	51
151	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	4.2	51
150	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	4.2	51
149	Source enrichment processes responsible for isotopic anomalies in oceanic island basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 2699-2724	5.5	50
148	Medical applications of Cu, Zn, and S isotope effects. <i>Metallomics</i> , 2016 , 8, 1056-1070	4.5	50
147	A Zn isotope perspective on the rise of continents. <i>Geobiology</i> , 2013 , 11, 201-14	4.3	49
146	Short-lived chemical heterogeneities in the archean mantle with implications for mantle convection. <i>Science</i> , 1994 , 263, 1593-6	33.3	49
145	Cryptic striations in the upper mantle revealed by hafnium isotopes in southeast Indian ridge basalts. <i>Nature</i> , 2006 , 440, 199-202	50.4	48
144	Phosphate Lu/Hf geochronology. <i>Chemical Geology</i> , 2003 , 200, 241-253	4.2	47
143	Unscrambling the lead model ages. <i>Geochimica Et Cosmochimica Acta</i> , 1984 , 48, 207-212	5.5	47
142	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	5.3	46
141	40K-(40)Ar constraints on recycling continental crust into the mantle. <i>Science</i> , 2000 , 288, 845-7	33.3	45
140	Thermal models of post-tectonic decompression as exemplified by the Haut-Allier granulites (Massif Central, France). <i>Bulletin - Societe Geologique De France</i> , 1976 , S7-XVIII, 1023-1032	2.3	45
139	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	45
138	Mixing of isotopic heterogeneities in the Mauna Kea plume conduit. <i>Earth and Planetary Science Letters</i> , 2009 , 282, 190-200	5.3	44

137	Rogue mantle helium and neon. <i>Science</i> , 2008 , 319, 943-5	33.3	44
136	Geology of an active hot spot: Teahitia-Mehetia region in the South Central Pacific. <i>Marine Geophysical Researches</i> , 1989 , 11, 27-50	2.3	43
135	Decoupled isotopic record of ridge and subduction zone processes in oceanic basalts by independent component analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	42
134	Geochemistry: An Introduction 2003 ,		42
133	$^{143}\text{Nd}/^{144}\text{Nd}$ in Pacific ferromanganese encrustations and nodules. <i>Earth and Planetary Science Letters</i> , 1986 , 81, 7-14	5.3	42
132	A unique lower mantle source for Southern Italy volcanics. <i>Earth and Planetary Science Letters</i> , 2007 , 259, 227-238	5.3	40
131	Mass-Independent Isotope Fractionation of Molybdenum and Ruthenium and the Origin of Isotopic Anomalies in Murchison. <i>Astrophysical Journal</i> , 2006 , 647, 1506-1516	4.7	40
130	Relationships between mineralogical, chemical, and isotopic properties of some North American kimberlites. <i>Journal of Geophysical Research</i> , 1988 , 93, 7643		40
129	The early formation of the IVA iron meteorite parent body. <i>Earth and Planetary Science Letters</i> , 2010 , 296, 469-480	5.3	39
128	Hybridization of mingling magmas with different densities. <i>Earth and Planetary Science Letters</i> , 1994 , 121, 327-332	5.3	39
127	Regime and trace-element evolution of open magma chambers. <i>Nature</i> , 1985 , 318, 356-358	50.4	39
126	Early Devonian volcanism in the eastern Klamath Mountains, California: evidence for an immature island arc. <i>Canadian Journal of Earth Sciences</i> , 1985 , 22, 214-226	1.5	39
125	Zr isotope anomalies in chondrites and the presence of ^{92}Nb in the early solar system. <i>Earth and Planetary Science Letters</i> , 2000 , 184, 75-81	5.3	38
124	The deep layers of a Paleozoic arc: geochemistry of the Copley-Balaklala series, northern California. <i>Earth and Planetary Science Letters</i> , 1987 , 85, 386-400	5.3	37
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