

# John Valley

## List of Publications by Year in descending order

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387  
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12414  
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#	ARTICLE	IF	CITATIONS
1	Evidence from detrital zircons for the existence of continental crust and oceans on the Earth 4.4â€‰Gyr ago. <i>Nature</i> , 2001, 409, 175-178.	27.8	1,505
2	Improved <sup>206</sup> Pb/ <sup>238</sup> U microprobe geochronology by the monitoring of a trace-element-related matrix effect; SHRIMP, IDâ€‰TIMS, ELAâ€‰ICPâ€‰MS and oxygen isotope documentation for a series of zircon standards. <i>Chemical Geology</i> , 2004, 205, 115-140.	3.3	1,472
3	Further Characterisation of the 91500 Zircon Crystal. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 9-39.	1.9	1,142
4	4.4 billion years of crustal maturation: oxygen isotope ratios of magmatic zircon. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 561-580.	3.1	970
5	Zircon megacrysts from kimberlite: oxygen isotope variability among mantle melts. <i>Contributions To Mineralogy and Petrology</i> , 1998, 133, 1-11.	3.1	800
6	UWG-2, a garnet standard for oxygen isotope ratios: Strategies for high precision and accuracy with laser heating. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 5223-5231.	3.9	632
7	Oxygen Isotopes in Zircon. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 343-385.	4.8	626
8	Zircon M257 â€‰a Homogeneous Natural Reference Material for the Ion Microprobe Uâ€‰Pb Analysis of Zircon. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 247-265.	3.1	591
9	Hadean age for a post-magma-ocean zircon confirmed by atom-probe tomography. <i>Nature Geoscience</i> , 2014, 7, 219-223.	12.9	451
10	High precision SIMS oxygen isotope analysis and the effect of sample topography. <i>Chemical Geology</i> , 2009, 264, 43-57.	3.3	404
11	A cool early Earth. <i>Geology</i> , 2002, 30, 351.	4.4	381
12	Ti-in-zircon thermometry: applications and limitations. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 197-215.	3.1	371
13	Herbivore tooth oxygen isotope compositions: Effects of diet and physiology. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3889-3896.	3.9	363
14	Magmatic <sup>18</sup> O in 4400â€‰3900 Ma detrital zircons: A record of the alteration and recycling of crust in the Early Archean. <i>Earth and Planetary Science Letters</i> , 2005, 235, 663-681.	4.4	331
15	Oxygen isotope geochemistry of zircon. <i>Earth and Planetary Science Letters</i> , 1994, 126, 187-206.	4.4	327
16	The petrologic case for a dry lower crust. <i>Journal of Geophysical Research</i> , 1997, 102, 12173-12185.	3.3	305
17	Oxygen isotope ratios and rare earth elements in 3.3 to 4.4 Ga zircons: Ion microprobe evidence for high <sup>18</sup> O continental crust and oceans in the Early Archean. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4215-4229.	3.9	284
18	Oxygen Isotope Geochemistry of Oceanic-Arc Lavas. <i>Journal of Petrology</i> , 2000, 41, 229-256.	2.8	262

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19	Low- $\delta^{18}\text{O}$ Rhyolites from Yellowstone: Magmatic Evolution Based on Analyses of Zircons and Individual Phenocrysts. <i>Journal of Petrology</i> , 2001, 42, 1491-1517.	2.8	252
20	Oxygen isotope variations in ocean island basalt phenocrysts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2281-2293.	3.9	223
21	Fe, C, and O isotope compositions of banded iron formation carbonates demonstrate a major role for dissimilatory iron reduction in $\sim 2.5\text{Ga}$ marine environments. <i>Earth and Planetary Science Letters</i> , 2010, 294, 8-18.	4.4	220
22	Chondrulelike Objects in Short-Period Comet 81P/Wild 2. <i>Science</i> , 2008, 321, 1664-1667.	12.6	215
23	SIMS analysis of oxygen isotopes: matrix effects in complex minerals and glasses. <i>Chemical Geology</i> , 1997, 138, 221-244.	3.3	211
24	Metamorphism in the Adirondacks. I. Petrology, Pressure and Temperature. <i>Journal of Petrology</i> , 1985, 26, 971-992.	2.8	205
25	Dynamic Magma Systems, Crustal Recycling, and Alteration in the Central Sierra Nevada Batholith: the Oxygen Isotope Record. <i>Journal of Petrology</i> , 2008, 49, 1397-1426.	2.8	204
26	Oxygen isotope constraints on the sources of Hawaiian volcanism. <i>Earth and Planetary Science Letters</i> , 1996, 144, 453-467.	4.4	202
27	Geochemistry of xenolithic eclogites from West Africa, part I: A link between low MgO eclogites and Archean crust formation. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1499-1527.	3.9	198
28	Metamorphism in the Adirondacks: II. The Role of Fluids. <i>Journal of Petrology</i> , 1990, 31, 555-596.	2.8	195
29	Metamorphism of reduced granulites in low- $\text{CO}_2$ vapour-free environment. <i>Nature</i> , 1984, 312, 56-58.	27.8	191
30	Combined U-Pb, hafnium and oxygen isotope analysis of zircons from meta-igneous rocks in the southern North China Craton reveal multiple events in the Late Mesoproterozoic-Early Neoproterozoic. <i>Chemical Geology</i> , 2009, 261, 140-154.	3.3	191
31	Intercrystalline stable isotope diffusion: a fast grain boundary model. <i>Contributions To Mineralogy and Petrology</i> , 1992, 112, 543-557.	3.1	183
32	Low-Temperature Carbonate Concretions in the Martian Meteorite ALH84001: Evidence from Stable Isotopes and Mineralogy. <i>Science</i> , 1997, 275, 1633-1638.	12.6	183
33	Variability in oxygen isotope compositions of herbivore teeth: reflections of seasonality or developmental physiology?. <i>Chemical Geology</i> , 1998, 152, 97-112.	3.3	182
34	Lithium in Jack Hills zircons: Evidence for extensive weathering of Earth's earliest crust. <i>Earth and Planetary Science Letters</i> , 2008, 272, 666-676.	4.4	178
35	Primordial oxygen isotope reservoirs of the solar nebula recorded in chondrules in Acfer 094 carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 90, 242-264.	3.9	173
36	Fluid heterogeneity during granulite facies metamorphism in the Adirondacks: stable isotope evidence. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 158-173.	3.1	172

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37	Internal zoning and U-Th-Pb chemistry of Jack Hills detrital zircons: a mineral record of early Archean to Mesoproterozoic (4348-1576Ma) magmatism. <i>Precambrian Research</i> , 2004, 135, 251-279.	2.7	168
38	Volcanic arc of Kamchatka: a province with high- $\delta^{18}O$ magma sources and large-scale $^{18}O/^{16}O$ depletion of the upper crust. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 841-865.	3.9	167
39	Origin and Evolution of Silicic Magmatism at Yellowstone Based on Ion Microprobe Analysis of Isotopically Zoned Zircons. <i>Journal of Petrology</i> , 2008, 49, 163-193.	2.8	166
40	High precision SIMS oxygen three isotope study of chondrules in LL3 chondrites: Role of ambient gas during chondrule formation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6610-6635.	3.9	162
41	exchange between calcite and graphite: A possible thermometer in Grenville marbles. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 411-419.	3.9	160
42	Correlated microanalysis of zircon: Trace element, $\delta^{18}O$ , and U-Th-Pb isotopic constraints on the igneous origin of complex >3900Ma detrital grains. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5601-5616.	3.9	158
43	Isotopic fractionation of the major elements of molten basalt by chemical and thermal diffusion. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4250-4263.	3.9	157
44	Empirical calibration of oxygen isotope fractionation in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3257-3266.	3.9	154
45	Climate deterioration in the Eastern Mediterranean as revealed by ion microprobe analysis of a speleothem that grew from 2.2 to 0.9 ka in Soreq Cave, Israel. <i>Quaternary Research</i> , 2009, 71, 27-35.	1.7	149
46	Zircons from kimberlite: New insights from oxygen isotopes, trace elements, and Ti in zircon thermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3887-3903.	3.9	147
47	Distinguishing magmatic zircon from hydrothermal zircon: A case study from the Gidginbung high-sulphidation Au-Ag (Cu) deposit, SE Australia. <i>Chemical Geology</i> , 2009, 259, 131-142.	3.3	146
48	Oxygen isotope ratios of Archean plutonic zircons from granite-greenstone belts of the Superior Province: indicator of magmatic source. <i>Precambrian Research</i> , 1998, 92, 365-387.	2.7	144
49	Chapter 13. STABLE ISOTOPE GEOCHEMISTRY of METAMORPHIC ROCKS. , 1986, , 445-490.		142
50	Intratest oxygen isotope variability in the planktonic foraminifer <i>N. pachyderma</i> : Real vs. apparent vital effects by ion microprobe. <i>Chemical Geology</i> , 2009, 258, 327-337.	3.3	138
51	A new look at stable isotope thermometry. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2571-2583.	3.9	133
52	SIMS analyses of the oldest known assemblage of microfossils document their taxon-correlated carbon isotope compositions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 53-58.	7.1	131
53	Carbon isotope thermometry in marbles of the Adirondack Mountains, New York. <i>Journal of Metamorphic Geology</i> , 1995, 13, 577-594.	3.4	130
54	Oxygen isotope constraints on the origin and differentiation of the Moon. <i>Earth and Planetary Science Letters</i> , 2007, 253, 254-265.	4.4	130

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55	Direct dating of Adirondack massif anorthosite by U-Pb SHRIMP analysis of igneous zircon: Implications for AMCG complexes. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 1299-1317.	3.3	127
56	Post-metamorphic CO <sub>2</sub> -rich fluid inclusions in granulites. <i>Contributions To Mineralogy and Petrology</i> , 1987, 96, 485-495.	3.1	125
57	Oxygen isotope evidence against bulk recycled sediment in the mantle sources of Pitcairn Island lavas. <i>Nature</i> , 1995, 377, 138-141.	27.8	124
58	Slow oxygen diffusion rates in igneous zircons from metamorphic rocks. <i>American Mineralogist</i> , 2003, 88, 1003-1014.	1.9	124
59	Supracrustal input to magmas in the deep crust of Sierra Nevada batholith: Evidence from high-O zircon. <i>Earth and Planetary Science Letters</i> , 2005, 235, 315-330.	4.4	123
60	Uniformly mantle-like $\delta^{18}O$ in zircons from oceanic plagiogranites and gabbros. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 13-33.	3.1	116
61	High-precision oxygen isotope analysis of picogram samples reveals 2 Åm gradients and slow diffusion in zircon. <i>American Mineralogist</i> , 2007, 92, 1772-1775.	1.9	113
62	Crustal evolution and recycling in a juvenile continent: Oxygen isotope ratio of zircon in the northern Arabian Nubian Shield. <i>Lithos</i> , 2009, 107, 169-184.	1.4	111
63	A novel symbiosis between chemoautotrophic bacteria and a freshwater cave amphipod. <i>ISME Journal</i> , 2009, 3, 935-943.	9.8	111
64	Calcite-graphite isotope thermometry: a test for polymetamorphism in marble, Tudor gabbro aureole, Ontario, Canada. <i>Journal of Metamorphic Geology</i> , 1992, 10, 487-501.	3.4	109
65	Nano- and micro-geochronology in Hadean and Archean zircons by atom-probe tomography and SIMS: New tools for old minerals. <i>American Mineralogist</i> , 2015, 100, 1355-1377.	1.9	109
66	Megacrysts and Associated Xenoliths: Evidence for Migration of Geochemically Enriched Melts in the Upper Mantle beneath Scotland. <i>Journal of Petrology</i> , 1999, 40, 935-956.	2.8	108
67	Stable Isotope Thermometry at High Temperatures. <i>Reviews in Mineralogy and Geochemistry</i> , 2001, 43, 365-413.	4.8	108
68	Perspectives on the origin of plagiogranite in ophiolites from oxygen isotopes in zircon. <i>Lithos</i> , 2013, 179, 48-66.	1.4	107
69	Micro-analysis of sulfur-isotope ratios and zonation by laser microprobe. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2075-2092.	3.9	105
70	Geochemistry of xenolithic eclogites from West Africa, part 2: origins of the high MgO eclogites. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4325-4345.	3.9	105
71	Estimating groundwater exchange with lakes: 1. The stable isotope mass balance method. <i>Water Resources Research</i> , 1990, 26, 2445-2453.	4.2	103
72	Optically continuous silcrete quartz cements of the St. Peter Sandstone: High precision oxygen isotope analysis by ion microprobe. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3812-3832.	3.9	103

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73	Oxygen isotope study of the Long Valley magma system, California: isotope thermometry and convection in large silicic magma bodies. <i>Contributions To Mineralogy and Petrology</i> , 2002, 144, 185-205.	3.1	102
74	Extreme crustal oxygen isotope signatures preserved in coesite in diamond. <i>Nature</i> , 2003, 423, 68-70.	27.8	102
75	Stable Isotope Transport and Contact Metamorphic Fluid Flow. <i>Reviews in Mineralogy and Geochemistry</i> , 2001, 43, 415-467.	4.8	101
76	SHRIMP U-Pb and CAMECA 1280 oxygen isotope results from ancient detrital zircons in the Caozhuang quartzite, Eastern Hebei, North China Craton: Evidence for crustal reworking 3.8 Ga ago. <i>Numerische Mathematik</i> , 2008, 308, 185-199.	1.4	101
77	Oxygen isotope evidence for slab-derived fluids in the sub-arc mantle. <i>Nature</i> , 1998, 393, 777-781.	27.8	100
78	Ion microprobe analysis of oxygen isotope ratios in granulite facies magnetites: diffusive exchange as a guide to cooling history. <i>Contributions To Mineralogy and Petrology</i> , 1991, 109, 38-52.	3.1	99
79	Oxygen and neodymium isotope evidence for recycling of juvenile crust in northeast China. <i>Geology</i> , 2002, 30, 375.	4.4	98
80	Compositional evolution of the upper continental crust through time, as constrained by ancient glacial diamictites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 186, 316-343.	3.9	98
81	Petrogenesis of A-type granites and origin of vertical zoning in the Katharina pluton, Gebel Mussa (Mt.) Tj ETQq1 1 0,784314,rgBT /Ov	1.4	94
82	Influence of radiation damage on Late Jurassic zircon from southern China: Evidence from in situ measurements of oxygen isotopes, laser Raman, Uâ€“Pb ages, and trace elements. <i>Chemical Geology</i> , 2014, 389, 122-136.	3.3	94
83	Post-caldera volcanism: in situ measurement of Uâ€“Pb age and oxygen isotope ratio in Pleistocene zircons from Yellowstone caldera. <i>Earth and Planetary Science Letters</i> , 2001, 189, 197-206.	4.4	93
84	Ion microprobe analysis of oxygen isotopes in garnets of complex chemistry. <i>Chemical Geology</i> , 2010, 270, 9-19.	3.3	93
85	Seasonal resolution of Eastern Mediterranean climate change since 34ka from a Soreq Cave speleothem. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 240-255.	3.9	91
86	Evidence from polymict ureilite meteorites for a disrupted and re-accreted single ureilite parent asteroid gardened by several distinct impactors. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4825-4844.	3.9	90
87	In situ $\delta^{18}\text{O}$ and Mg/Ca analyses of diagenetic and planktic foraminiferal calcite preserved in a deep-sea record of the Paleoceneâ€“Eocene thermal maximum. <i>Paleoceanography</i> , 2013, 28, 517-528.	3.0	90
88	Constraining atmospheric oxygen and seawater sulfate concentrations during Paleoproterozoic glaciation: In situ sulfur three-isotope microanalysis of pyrite from the Turee Creek Group, Western Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5686-5705.	3.9	89
89	SIMS analyses of silicon and oxygen isotope ratios for quartz from Archean and Paleoproterozoic banded iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5879-5891.	3.9	89
90	Mollusk Shell Nacre Ultrastructure Correlates with Environmental Temperature and Pressure. <i>Journal of the American Chemical Society</i> , 2012, 134, 7351-7358.	13.7	89

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91	Oxygen and hydrogen isotope study of high-pressure metagabbros and metabasalts (Cyclades, Greece): implications for the subduction of oceanic crust. <i>Contributions To Mineralogy and Petrology</i> , 2000, 138, 114-126.	3.1	88
92	Primitive oxygen-isotope ratio recorded in magmatic zircon from the Mid-Atlantic Ridge. <i>American Mineralogist</i> , 2009, 94, 926-934.	1.9	87
93	Texture-specific isotopic compositions in 3.4Gyr old organic matter support selective preservation in cell-like structures. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 66-86.	3.9	87
94	The rapid heating, defocused beam technique: a CO <sub>2</sub> -laser-based method for highly precise and accurate determination of $\delta^{18}O$ values of quartz. <i>Chemical Geology</i> , 1998, 144, 195-203.	3.3	86
95	Formation of low- $\delta^{18}O$ rhyolites after caldera collapse at Yellowstone, Wyoming, USA. <i>Geology</i> , 2000, 28, 719.	4.4	86
96	Oxygen isotope evidence for shallow emplacement of Adirondack anorthosite. <i>Nature</i> , 1982, 300, 497-500.	27.8	85
97	Oxygen isotope ratios of zircon: magma genesis of low $\delta^{18}O$ granites from the British Tertiary Igneous Province, western Scotland. <i>Earth and Planetary Science Letters</i> , 2001, 184, 377-392.	4.4	85
98	Ion microprobe analysis of oxygen isotope ratios in quartz from Skye granite: healed micro-cracks, fluid flow, and hydrothermal exchange. <i>Contributions To Mineralogy and Petrology</i> , 1996, 124, 225-234.	3.1	84
99	Petrogenesis of group A eclogites and websterites: evidence from the Obnazhennaya kimberlite, Yakutia. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 424-443.	3.1	84
100	Physiochemical, mineralogical, and isotopic characterization of magnetite-rich iron oxides formed by thermophilic iron-reducing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4621-4632.	3.9	83
101	7. Stable Isotope Transport and Contact Metamorphic Fluid Flow. , 2001, , 415-468.		81
102	Garnet pyroxenite and eclogite in the Bohemian Massif: geochemical evidence for Variscan recycling of subducted lithosphere. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1995, 84, 489.	1.3	80
103	The source, magmatic contamination, and alteration of the Idaho batholith. <i>Contributions To Mineralogy and Petrology</i> , 2001, 142, 72-88.	3.1	79
104	Sub-micron scale distributions of trace elements in zircon. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 317-335.	3.1	79
105	A single asteroidal source for extraterrestrial Ordovician chromite grains from Sweden and China: High-precision oxygen three-isotope SIMS analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 497-509.	3.9	79
106	In situ sulfur isotope analysis of sulfide minerals by SIMS: Precision and accuracy, with application to thermometry of $\delta^{34}S$ in 3.5Ga Pilbara cherts. <i>Chemical Geology</i> , 2010, 275, 243-253.	3.3	78
107	Li isotopes and trace elements as a petrogenetic tracer in zircon: insights from Archean TTGs and sanukitoids. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 745-768.	3.1	78
108	Seasonal climate signals (1990-2008) in a modern Soreq Cave stalagmite as revealed by high-resolution geochemical analysis. <i>Chemical Geology</i> , 2014, 363, 322-333.	3.3	75

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109	Steep oxygen-isotope gradients at marbleâ€™metagranite contacts in the northwest Adirondack Mountains, New York, USA: products of fluid-hosted diffusion. <i>Earth and Planetary Science Letters</i> , 1991, 107, 148-163.	4.4	74
110	Dehydration-Melting and Fluid Recycling during Metamorphism: Rangeley Formation, New Hampshire, USA. <i>Journal of Petrology</i> , 1997, 38, 1255-1277.	2.8	74
111	Highâ€precision SIMS oxygen, sulfur and iron stable isotope analyses of geological materials: accuracy, surface topography and crystal orientation. <i>Surface and Interface Analysis</i> , 2011, 43, 427-431.	1.8	74
112	Preservation and detection of microstructural and taxonomic correlations in the carbon isotopic compositions of individual Precambrian microfossils. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 165-182.	3.9	72
113	Metamorphic fluids in the deep crust: evidence from the Adirondacks. <i>Nature</i> , 1983, 301, 226-228.	27.8	70
114	Crystal orientation effects in $\delta^{18}O$ for magnetite and hematite by SIMS. <i>Chemical Geology</i> , 2010, 276, 269-283.	3.3	70
115	Planktonic foraminiferal oxygen isotope analysis by ion microprobe technique suggests warm tropical sea surface temperatures during the Early Paleogene. <i>Paleoceanography</i> , 2011, 26, .	3.0	70
116	Conditions of Archean granulite metamorphism in the Godthab-Fiskenaesset region, southern West Greenland. <i>Journal of Metamorphic Geology</i> , 1990, 8, 171-190.	3.4	68
117	The relative timing of serpentinisation and mantle exhumation at the oceanâ€™continent transition, Iberia: constraints from oxygen isotopes. <i>Earth and Planetary Science Letters</i> , 2000, 178, 327-338.	4.4	68
118	Post-granulite facies fluid infiltration in the Adirondack Mountains. <i>Geology</i> , 1988, 16, 513.	4.4	67
119	Coesite eclogites from the Roberts Victor kimberlite, South Africa. <i>Lithos</i> , 2000, 54, 23-32.	1.4	67
120	Compensation of charging in X-PEEM: a successful test on mineral inclusions in 4.4Ga old zircon. <i>Ultramicroscopy</i> , 2003, 98, 57-62.	1.9	67
121	Questioning the biogenicity of Neoproterozoic superheavy pyrite by SIMS. <i>American Mineralogist</i> , 2018, 103, 1362-1400.	1.9	67
122	Isotopic alteration of mammalian tooth enamel. <i>International Journal of Osteoarchaeology</i> , 2003, 13, 11-19.	1.2	66
123	Rapid generation of both high- and low- $\delta^{18}O$ , large-volume silicic magmas at the Timber Mountain/Oasis Valley caldera complex, Nevada. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 581-595.	3.3	66
124	Unraveling crustal growth and reworking processes in complex zircons from orogenic lower-crust: The Proterozoic Putumayo Orogen of Amazonia. <i>Precambrian Research</i> , 2015, 267, 285-310.	2.7	66
125	13. Oxygen Isotopes in Zircon. , 2003, , 343-386.		64
126	Silician magnetite from the Dales Gorge Member of the Brockman Iron Formation, Hamersley Group, Western Australia. <i>American Mineralogist</i> , 2012, 97, 26-37.	1.9	64



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127	Development of in situ sulfur four-isotope analysis with multiple Faraday cup detectors by SIMS and application to pyrite grains in a Paleoproterozoic glaciogenic sandstone. <i>Chemical Geology</i> , 2014, 383, 86-99.	3.3	64
128	Oxygen and iron isotope constraints on near-surface fractionation effects and the composition of lunar mare basalt source regions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6249-6262.	3.9	62
129	Combined oxygen-isotope and U-Pb zoning studies of titanite: New criteria for age preservation. <i>Chemical Geology</i> , 2015, 398, 70-84.	3.3	62
130	Hydrothermal alteration of oxygen isotope ratios in quartz phenocrysts, Kidd Creek mine, Ontario: Magmatic values are preserved in zircon. <i>Geology</i> , 1997, 25, 1079.	4.4	61
131	Two populations of carbonate in ALH84001: geochemical evidence for discrimination and genesis. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1285-1303.	3.9	61
132	Oscillatory zoning in garnet from the Willsboro Wollastonite Skarn, Adirondack Mts, New York: a record of shallow hydrothermal processes preserved in a granulite facies terrane. <i>Journal of Metamorphic Geology</i> , 2003, 21, 771-784.	3.4	61
133	Needs and opportunities in mineral evolution research. <i>American Mineralogist</i> , 2011, 96, 953-963.	1.9	61
134	Stable isotope time-series in mammalian teeth: In situ $\delta^{18}\text{O}$ from the innermost enamel layer. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 124, 223-236.	3.9	61
135	Effects of cation substitutions in garnet and pyroxene on equilibrium oxygen isotope fractionations. <i>Journal of Metamorphic Geology</i> , 1998, 16, 625-639.	3.4	60
136	The effects of metamorphism on O and Fe isotope compositions in the Biwabik Iron Formation, northern Minnesota. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 313-328.	3.1	60
137	Multiple origins of zircons in jadeitite. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 769-780.	3.1	60
138	Oxygen isotope ratios in olivine from the Hawaii Scientific Drilling Project. <i>Journal of Geophysical Research</i> , 1996, 101, 11807-11813.	3.3	59
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