

List of Publications by Year in descending order

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604
papers

53,807
citations

905

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2446

197
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613
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613
docs citations

613
times ranked

17558
citing authors

| # | 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. | 13.7 | 1,505 |
| 2 | Magmatic and Crustal Differentiation History of Granitic Rocks from Hf-O Isotopes in Zircon. <i>Science</i> , 2007, 315, 980-983. | 6.0 | 1,154 |
| 3 | Further Characterisation of the 91500 Zircon Crystal. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 9-39. | 2.0 | 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. | 1.2 | 970 |
| 5 | Prediction of crystalâ€“melt partition coefficients from elastic moduli. <i>Nature</i> , 1994, 372, 452-454. | 13.7 | 860 |
| 6 | A Change in the Geodynamics of Continental Growth 3 Billion Years Ago. <i>Science</i> , 2012, 335, 1334-1336. | 6.0 | 707 |
| 7 | Modification and preservation of environmental signals in speleothems. <i>Earth-Science Reviews</i> , 2006, 75, 105-153. | 4.0 | 669 |
| 8 | Using hafnium and oxygen isotopes in zircons to unravel the record of crustal evolution. <i>Chemical Geology</i> , 2006, 226, 144-162. | 1.4 | 655 |
| 9 | Episodic growth of the Gondwana supercontinent from hafnium and oxygen isotopes in zircon. <i>Nature</i> , 2006, 439, 580-583. | 13.7 | 640 |
| 10 | 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. | 1.6 | 632 |
| 11 | Oxygen Isotopes in Zircon. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 343-385. | 2.2 | 626 |
| 12 | MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a. | 1.0 | 563 |
| 13 | Zircon Behaviour and the Thermal Histories of Mountain Chains. <i>Elements</i> , 2007, 3, 25-30. | 0.5 | 535 |
| 14 | Evolution of the continental crust. <i>Nature</i> , 2006, 443, 811-817. | 13.7 | 533 |
| 15 | SIMS determination of trace element partition coefficients between garnet, clinopyroxene and hydrous basaltic liquids at 2â€“7.5 GPa and 1080â€“1200Â°C. <i>Lithos</i> , 2000, 53, 165-187. | 0.6 | 520 |
| 16 | A predictive model for rare earth element partitioning between clinopyroxene and anhydrous silicate melt. <i>Contributions To Mineralogy and Petrology</i> , 1997, 129, 166-181. | 1.2 | 482 |
| 17 | Trace elements in speleothems as recorders of environmental change. <i>Quaternary Science Reviews</i> , 2009, 28, 449-468. | 1.4 | 422 |
| 18 | Isotopic evidence for rapid continental growth in an extensional accretionary orogen: The Tasmanides, eastern Australia. <i>Earth and Planetary Science Letters</i> , 2009, 284, 455-466. | 1.8 | 398 |

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|----|--|------|-----------|
| 19 | Experimental constraints on major and trace element partitioning during partial melting of eclogite. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3109-3123. | 1.6 | 391 |
| 20 | The chemistry of zircon: Variations within and between large crystals from syenite and alkali basalt xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3287-3302. | 1.6 | 382 |
| 21 | A cool early Earth. <i>Geology</i> , 2002, 30, 351. | 2.0 | 381 |
| 22 | Partitioning of trace elements between crystals and melts. <i>Earth and Planetary Science Letters</i> , 2003, 210, 383-397. | 1.8 | 357 |
| 23 | Trace-element geochemistry of mantle olivine and application to mantle petrogenesis and geothermobarometry. <i>Chemical Geology</i> , 2010, 270, 196-215. | 1.4 | 351 |
| 24 | A dearth of intermediate melts at subduction zone volcanoes and the petrogenesis of arc andesites. <i>Nature</i> , 2009, 461, 1269-1273. | 13.7 | 336 |
| 25 | Heavy REE are compatible in clinopyroxene on the spinel lherzolite solidus. <i>Earth and Planetary Science Letters</i> , 1998, 160, 493-504. | 1.8 | 334 |
| 26 | Magmatic $\delta^{18}O$ in 4400-3900 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. | 1.8 | 331 |
| 27 | Refining the T records of UHT crustal metamorphism. <i>Journal of Metamorphic Geology</i> , 2008, 26, 125-154. | 1.6 | 294 |
| 28 | An integrated microtextural and chemical approach to zircon geochronology: refining the Archean history of the Napier Complex, east Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 57-84. | 1.2 | 291 |
| 29 | Oxygen isotope ratios and rare earth elements in 3.3 to 4.4 Ga zircons: Ion microprobe evidence for high $\delta^{18}O$ continental crust and oceans in the Early Archean. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4215-4229. | 1.6 | 284 |
| 30 | Magma heating by decompression-driven crystallization beneath andesite volcanoes. <i>Nature</i> , 2006, 443, 76-80. | 13.7 | 272 |
| 31 | An experimental study of amphibole stability in low-pressure granitic magmas and a revised Al-in-hornblende geobarometer. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1. | 1.2 | 269 |
| 32 | Partitioning of Sr^{2+} and Mg^{2+} into calcite under karst-analogue experimental conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 47-62. | 1.6 | 265 |
| 33 | Fractionation of trace elements by subduction-zone metamorphism - effect of convergent-margin thermal evolution. <i>Earth and Planetary Science Letters</i> , 1999, 171, 63-81. | 1.8 | 260 |
| 34 | Trace Element Partitioning and Accessory Phase Saturation during H ₂ O-Saturated Melting of Basalt with Implications for Subduction Zone Chemical Fluxes. <i>Journal of Petrology</i> , 2008, 49, 523-553. | 1.1 | 260 |
| 35 | Uranium-thorium disequilibria and partitioning on melting of garnet peridotite. <i>Nature</i> , 1993, 363, 63-65. | 13.7 | 255 |
| 36 | Systematics and energetics of trace-element partitioning between olivine and silicate melts: Implications for the nature of mineral/melt partitioning. <i>Chemical Geology</i> , 1994, 117, 57-71. | 1.4 | 253 |

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|----|--|------|-----------|
| 37 | 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. | 1.1 | 252 |
| 38 | An experimental study of trace element partitioning between zircon and melt as a function of oxygen fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 95, 196-212. | 1.6 | 244 |
| 39 | REE fractionation and Nd-isotope disequilibrium during crustal anatexis: constraints from Himalayan leucogranites. <i>Chemical Geology</i> , 1997, 139, 249-269. | 1.4 | 241 |
| 40 | Magma Evolution and Open-System Processes at Shiveluch Volcano: Insights from Phenocryst Zoning. <i>Journal of Petrology</i> , 2006, 47, 2303-2334. | 1.1 | 237 |
| 41 | Li isotope fractionation in peridotites and mafic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 202-218. | 1.6 | 236 |
| 42 | Partial melting and phase relations in high-grade metapelites: an experimental petrogenetic grid in the KFMASH system. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 270-291. | 1.2 | 235 |
| 43 | Crystal-chemical controls on trace element partitioning between garnet and anhydrous silicate melt. <i>American Mineralogist</i> , 1999, 84, 838-847. | 0.9 | 234 |
| 44 | Kankan diamonds (Guinea) II: lower mantle inclusion parageneses. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 16-27. | 1.2 | 234 |
| 45 | Zircon Tiny but Timely. <i>Elements</i> , 2007, 3, 13-18. | 0.5 | 227 |
| 46 | Primary carbonatite melt from deeply subducted oceanic crust. <i>Nature</i> , 2008, 454, 622-625. | 18.7 | 225 |
| 47 | The effect of Ca-Tschermaks component on trace element partitioning between clinopyroxene and silicate melt. <i>Lithos</i> , 2000, 53, 203-215. | 0.6 | 224 |
| 48 | Accessory phase controls on the geochemistry of crustal melts and restites produced during water-undersaturated partial melting. <i>Contributions To Mineralogy and Petrology</i> , 1993, 114, 550-566. | 1.2 | 219 |
| 49 | Partitioning of high field-strength and rare-earth elements between amphibole and quartz-dioritic to tonalitic melts: an experimental study. <i>Chemical Geology</i> , 1997, 138, 257-271. | 1.4 | 219 |
| 50 | SIMS analysis of oxygen isotopes: matrix effects in complex minerals and glasses. <i>Chemical Geology</i> , 1997, 138, 221-244. | 1.4 | 211 |
| 51 | Rapid decompression-driven crystallization recorded by melt inclusions from Mount St. Helens volcano. <i>Geology</i> , 2005, 33, 793. | 2.0 | 207 |
| 52 | Trace element distribution in annual stalagmite laminae mapped by micrometer-resolution X-ray fluorescence: Implications for incorporation of environmentally significant species. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1494-1512. | 1.6 | 205 |
| 53 | Determination of partition coefficients between apatite, clinopyroxene, amphibole, and melt in natural spinel lherzolites from Yemen: Implications for wet melting of the lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 423-437. | 1.6 | 200 |
| 54 | A case for CO ₂ -rich arc magmas. <i>Earth and Planetary Science Letters</i> , 2010, 290, 289-301. | 1.8 | 198 |

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|----|--|-----|-----------|
| 55 | Experimental comparison of trace element partitioning between clinopyroxene and melt in carbonate and silicate systems, and implications for mantle metasomatism. <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 356-371. | 1.2 | 197 |
| 56 | Evaporite mineral assemblages in the nakhlite (martian) meteorites. <i>Earth and Planetary Science Letters</i> , 2000, 176, 267-279. | 1.8 | 191 |
| 57 | Sodium partitioning between clinopyroxene and silicate melts. <i>Journal of Geophysical Research</i> , 1995, 100, 15501-15515. | 3.3 | 190 |
| 58 | High-pressure Hydrous Phase Relations of Radiolarian Clay and Implications for the Involvement of Subducted Sediment in Arc Magmatism. <i>Journal of Petrology</i> , 2010, 51, 2211-2243. | 1.1 | 190 |
| 59 | Seasonal variations in Sr, Mg and P in modern speleothems (Grotta di Ernesto, Italy). <i>Chemical Geology</i> , 2001, 175, 429-448. | 1.4 | 186 |
| 60 | In situ U ²³⁵ /Pb rutile dating by LA-ICP-MS: 208Pb correction and prospects for geological applications. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 515-530. | 1.2 | 186 |
| 61 | Trace element partitioning on the Tinaquillo Lherzolite solidus at 1.5GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 139, 129-147. | 0.7 | 185 |
| 62 | Low-Temperature Carbonate Concretions in the Martian Meteorite ALH84001: Evidence from Stable Isotopes and Mineralogy. <i>Science</i> , 1997, 275, 1633-1638. | 6.0 | 183 |
| 63 | Silicon and Oxygen Self-Diffusivities in Silicate Liquids Measured to 15 Gigapascals and 2800 Kelvin. <i>Science</i> , 1997, 276, 1245-1248. | 6.0 | 183 |
| 64 | Aragonite-Calcite Relationships in Speleothems (Grotte De Clamouse, France): Environment, Fabrics, and Carbonate Geochemistry. <i>Journal of Sedimentary Research</i> , 2002, 72, 687-699. | 0.8 | 182 |
| 65 | Mineral-Melt Partitioning of Uranium, Thorium and Their Daughters. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 52, 59-123. | 2.2 | 181 |
| 66 | Metasomatic processes in lherzolic and harzburgitic domains of diamondiferous lithospheric mantle: REE in garnets from xenoliths and inclusions in diamonds. <i>Earth and Planetary Science Letters</i> , 1998, 159, 1-12. | 1.8 | 180 |
| 67 | The trace element composition of silicate inclusions in diamonds: a review. <i>Lithos</i> , 2004, 77, 1-19. | 0.6 | 180 |
| 68 | Annual trace element variations in a Holocene speleothem. <i>Earth and Planetary Science Letters</i> , 1998, 154, 237-246. | 1.8 | 179 |
| 69 | Structure of the 8200-Year Cold Event Revealed by a Speleothem Trace Element Record. <i>Science</i> , 2002, 296, 2203-2206. | 6.0 | 179 |
| 70 | The generation of uranium series disequilibria by partial melting of spinel peridotite: constraints from partitioning studies. <i>Earth and Planetary Science Letters</i> , 1993, 117, 379-391. | 1.8 | 178 |
| 71 | Apatite: A new redox proxy for silicic magmas?. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 101-119. | 1.6 | 178 |
| 72 | Quantifying physiological influences on otolith microchemistry. <i>Methods in Ecology and Evolution</i> , 2015, 6, 806-816. | 2.2 | 172 |

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|----|---|-----|-----------|
| 73 | Si and O diffusion in olivine and implications for characterizing plastic flow in the mantle. <i>Geophysical Research Letters</i> , 2002, 29, 26-1. | 1.5 | 169 |
| 74 | Development of microporosity, diffusion channels and deuteric coarsening in perthitic alkali feldspars. <i>Contributions To Mineralogy and Petrology</i> , 1990, 104, 507-515. | 1.2 | 167 |
| 75 | Diffusion of Li in olivine. Part I: Experimental observations and a multi species diffusion model. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 274-292. | 1.6 | 167 |
| 76 | Mineral inclusions in sublithospheric diamonds from Collier 4 kimberlite pipe, Juina, Brazil: subducted protoliths, carbonated melts and primary kimberlite magmatism. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 489-510. | 1.2 | 165 |
| 77 | Silicate perovskite-melt partitioning of trace elements and geochemical signature of a deep perovskitic reservoir. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 485-496. | 1.6 | 163 |
| 78 | 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. | 1.6 | 158 |
| 79 | Geochemistry of granitic melts produced during the incongruent melting of muscovite: Implications for the extraction of Himalayan leucogranite magmas. <i>Journal of Geophysical Research</i> , 1995, 100, 15767-15777. | 3.3 | 156 |
| 80 | The identification and significance of pure sediment-derived granites. <i>Earth and Planetary Science Letters</i> , 2017, 467, 57-63. | 1.8 | 153 |
| 81 | Boron and calcium isotope composition in Neoproterozoic carbonate rocks from Namibia: evidence for extreme environmental change. <i>Earth and Planetary Science Letters</i> , 2005, 231, 73-86. | 1.8 | 152 |
| 82 | Partitioning of F between H ₂ O and CO ₂ fluids and topaz rhyolite melt. <i>Contributions To Mineralogy and Petrology</i> , 1990, 104, 424-438. | 1.2 | 150 |
| 83 | Plagioclase residence times at two island arc volcanoes (Kameni Islands, Santorini, and Soufriere, St.) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i> 345-357. | 1.2 | 149 |
| 84 | Annual to sub-annual resolution of multiple trace-element trends in speleothems. <i>Journal of the Geological Society</i> , 2001, 158, 831-841. | 0.9 | 148 |
| 85 | Petrological cannibalism: the chemical and textural consequences of incremental magma body growth. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 703-729. | 1.2 | 148 |
| 86 | Rare and unusual mineral inclusions in diamonds from Mwadui, Tanzania. <i>Contributions To Mineralogy and Petrology</i> , 1998, 132, 34-47. | 1.2 | 147 |
| 87 | Water solubility and chlorine partitioning in Cl-rich granitic systems: Effects of melt composition at 2 kbar and 800°C. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 679-687. | 1.6 | 146 |
| 88 | Metapelitic Migmatites from Brattstrand Bluffs, East Antarctica—Metamorphism, Melting and Exhumation of the Mid Crust. <i>Journal of Petrology</i> , 1996, 37, 395-414. | 1.1 | 143 |
| 89 | Reconstructing the deep CO ₂ degassing behaviour of large basaltic fissure eruptions. <i>Earth and Planetary Science Letters</i> , 2014, 393, 120-131. | 1.8 | 143 |
| 90 | Ion microprobe trace-element analysis of silicates: Measurement of multi-element glasses. <i>Chemical Geology</i> , 1990, 83, 11-25. | 1.4 | 142 |

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|-----|---|-----|-----------|
| 91 | The impact of zircon-garnet REE distribution data on the interpretation of zircon U-Pb ages in complex high-grade terrains: An example from the Rauer Islands, East Antarctica. <i>Chemical Geology</i> , 2007, 241, 62-87. | 1.4 | 141 |
| 92 | The role of clinopyroxene in generating U-series disequilibrium during mantle melting. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1613-1620. | 1.6 | 139 |
| 93 | Channelized Fluid Flow and Eclogite-facies Metasomatism along the Subduction Shear Zone. <i>Journal of Petrology</i> , 2014, 55, 883-916. | 1.1 | 139 |
| 94 | Near-solidus evolution of oceanic gabbros: insights from amphibole geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4339-4357. | 1.6 | 138 |
| 95 | The effect of cation charge on crystal-melt partitioning of trace elements. <i>Earth and Planetary Science Letters</i> , 2001, 188, 59-71. | 1.8 | 138 |
| 96 | Rates of hydrothermal cooling of new oceanic upper crust derived from lithium-geospeedometry. <i>Earth and Planetary Science Letters</i> , 2005, 240, 415-424. | 1.8 | 137 |
| 97 | Fluid-melt interactions involving Cl-rich granites: Experimental study from 2 to 8 kbar. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 659-678. | 1.6 | 136 |
| 98 | Magma Emplacement and Remobilization Timescales Beneath Montserrat: Insights from Sr and Ba Zonation in Plagioclase Phenocrysts. <i>Journal of Petrology</i> , 2003, 44, 1413-1431. | 1.1 | 136 |
| 99 | Experimental Simulation of Closed-System Degassing in the System Basalt-H ₂ O-CO ₂ -S-Cl. <i>Journal of Petrology</i> , 2011, 52, 1737-1762. | 1.1 | 136 |
| 100 | Experimental determination of the diffusion coefficient for calcium in olivine between 900°C and 1500°C. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3683-3694. | 1.6 | 134 |
| 101 | High-temperature lithium isotope fractionation: Insights from lithium isotope diffusion in magmatic systems. <i>Earth and Planetary Science Letters</i> , 2007, 257, 609-621. | 1.8 | 133 |
| 102 | A matter of time: The importance of the duration of UHT metamorphism. <i>Journal of Mineralogical and Petrological Sciences</i> , 2016, 111, 50-72. | 0.4 | 132 |
| 103 | Melt geometry, movement and crystallization, in relation to mantle dykes, veins and metasomatism. <i>Philosophical Transactions of the Royal Society: Physical and Engineering Sciences</i> , 1993, 342, 1-21. | 1.0 | 131 |
| 104 | Kankan diamonds (Guinea) I: from the lithosphere down to the transition zone. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 1-15. | 1.2 | 131 |
| 105 | Coralline algae are global palaeothermometers with bi-weekly resolution. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 771-779. | 1.6 | 131 |
| 106 | Concurrent Mixing and Cooling of Melts under Iceland. <i>Journal of Petrology</i> , 2008, 49, 1931-1953. | 1.1 | 129 |
| 107 | Cathodoluminescence and trace element zoning in quartz phenocrysts and xenocrysts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4337-4348. | 1.6 | 128 |
| 108 | Experimental determination of REE partition coefficients between zircon, garnet and melt: a key to understanding high-T crustal processes. <i>Journal of Metamorphic Geology</i> , 2015, 33, 231-248. | 1.6 | 128 |

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|-----|---|-----|-----------|
| 109 | Ultrahigh temperature granulite metamorphism (1050±10°C, 12±1 kbar) and decompression in garnet (Mg70)±orthopyroxene±sillimanite gneisses from the Rauer Group, East Antarctica. <i>Journal of Metamorphic Geology</i> , 1998, 16, 541-562. | 1.6 | 126 |
| 110 | Diamonds from the asthenosphere and the transition zone. <i>European Journal of Mineralogy</i> , 2001, 13, 883-892. | 0.4 | 125 |
| 111 | Evolving east Asian river systems reconstructed by trace element and Pb and Nd isotope variations in modern and ancient Red River±Song Hong sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, . | 1.0 | 125 |
| 112 | Slow oxygen diffusion rates in igneous zircons from metamorphic rocks. <i>American Mineralogist</i> , 2003, 88, 1003-1014. | 0.9 | 124 |
| 113 | Partitioning of trace elements between clinopyroxene and garnet: data from mantle eclogites. <i>Chemical Geology</i> , 1997, 136, 1-24. | 1.4 | 123 |
| 114 | Cycling of B, Li, and LILE (K, Cs, Rb, Ba, Sr) into subduction zones: SIMS evidence from micas in high-P/T metasedimentary rocks. <i>Chemical Geology</i> , 2007, 239, 284-304. | 1.4 | 123 |
| 115 | Experimental partitioning of high field strength and rare earth elements between clinopyroxene and garnet in andesitic to tonalitic systems. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 99-115. | 1.6 | 120 |
| 116 | Atomistic simulation of trace element incorporation into garnets±comparison with experimental garnet-melt partitioning data. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1629-1639. | 1.6 | 118 |
| 117 | Trace-element partitioning between apatite and carbonatite melt. <i>American Mineralogist</i> , 2003, 88, 639-646. | 0.9 | 118 |
| 118 | Zircon growth in UHT leucosome: constraints from zircon-garnet rare earth elements (REE) relations in Napier Complex, East Antarctica. <i>Journal of Mineralogical and Petrological Sciences</i> , 2004, 99, 180-190. | 0.4 | 118 |
| 119 | The impact of degassing on the oxidation state of basaltic magmas: A case study of K±lauea volcano. <i>Earth and Planetary Science Letters</i> , 2016, 450, 317-325. | 1.8 | 118 |
| 120 | Abrupt global-ocean anoxia during the Late Ordovician±early Silurian detected using uranium isotopes of marine carbonates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5896-5901. | 3.3 | 118 |
| 121 | Generation and preservation of continental crust in the Grenville Orogeny. <i>Geoscience Frontiers</i> , 2015, 6, 357-372. | 4.3 | 117 |
| 122 | Textural and chemical consequences of interaction between hydrous mafic and felsic magmas: an experimental study. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1. | 1.2 | 117 |
| 123 | Tracing Lithosphere Evolution through the Analysis of Heterogeneous G9-G10 Garnets in Peridotite Xenoliths, II: REE Chemistry. <i>Journal of Petrology</i> , 2004, 45, 609-633. | 1.1 | 116 |
| 124 | The causes and petrological significance of cathodoluminescence emissions from alkali feldspars. <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 234-243. | 1.2 | 115 |
| 125 | High field strength element/rare earth element fractionation during partial melting in the presence of garnet: Implications for identification of mantle heterogeneities. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a. | 1.0 | 114 |
| 126 | Lead isotope variability in olivine-hosted melt inclusions from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4159-4176. | 1.6 | 114 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | The differentiation and rates of generation of the continental crust. <i>Chemical Geology</i> , 2006, 226, 134-143. | 1.4 | 113 |
| 128 | Annual trace element cycles in calcite-aragonite speleothems: evidence of drought in the western Mediterranean 1200-1100 yr BP. <i>Journal of Quaternary Science</i> , 2005, 20, 423-433. | 1.1 | 110 |
| 129 | Melt inclusions track pre-eruption storage and dehydration of magmas at Etna. <i>Geology</i> , 2009, 37, 571-574. | 2.0 | 110 |
| 130 | Late-stage volatile saturation as a potential trigger for explosive volcanic eruptions. <i>Nature Geoscience</i> , 2016, 9, 249-254. | 5.4 | 110 |
| 131 | Experimental investigations of the partitioning of Nb, Mo, Ba, Ce, Pb, Ra, Th, Pa, and U between immiscible carbonate and silicate liquids. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 1307-1320. | 1.6 | 109 |
| 132 | Trace element partitioning between mantle wedge peridotite and hydrous MgO-rich melt. <i>American Mineralogist</i> , 2003, 88, 1825-1831. | 0.9 | 109 |
| 133 | Diamond precipitation and mantle metasomatism - evidence from the trace element chemistry of silicate inclusions in diamonds from Akwatia, Ghana. <i>Contributions To Mineralogy and Petrology</i> , 1997, 129, 143-154. | 1.2 | 107 |
| 134 | The "zero charge" partitioning behaviour of noble gases during mantle melting. <i>Nature</i> , 2003, 423, 738-741. | 13.7 | 107 |
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