Andreas Kronz

List of Publications by Year
in descending order

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84 papers	6,743 citations	81900 39 h-index	60623 81 g-index
86 all docs	86 docs citations	86 times ranked	5510 citing authors

#	Article	IF	Citations
1	Further Characterisation of the 91500 Zircon Crystal. Geostandards and Geoanalytical Research, 2004, 28, 9-39.	1.9	1,142
2	Zircon M257 â€•a Homogeneous Natural Reference Material for the Ion Microprobe Uâ€Pb Analysis of Zircon. Geostandards and Geoanalytical Research, 2008, 32, 247-265.	3.1	591
3	Temperature dependence of Zr in rutile: empirical calibration of a rutile thermometer. Contributions To Mineralogy and Petrology, 2004, 148, 471-488.	3.1	449
4	Trace element abundances in rutiles from eclogites and associated garnet mica schists. Chemical Geology, 2002, 184, 97-122.	3.3	320
5	Rutile geochemistry and its potential use in quantitative provenance studies. Sedimentary Geology, 2004, 171, 37-58.	2.1	255
6	Minor- and trace-element zoning in plagioclase: implications for magma chamber processes at Parinacota volcano, northern Chile. Contributions To Mineralogy and Petrology, 2002, 143, 300-315.	3.1	217
7	Rutile crystals as potential trace element and isotope mineral standards for microanalysis. Chemical Geology, 2009, 261, 346-369.	3.3	208
8	Crystal Zoning as an Archive for Magma Evolution. Elements, 2007, 3, 261-266.	0.5	192
9	High-resolution quantitative imaging of plagioclase composition using accumulated backscattered electron images: new constraints on oscillatory zoning. Contributions To Mineralogy and Petrology, 2002, 142, 436-448.	3.1	191
10	Trace elements in quartz - a combined electron microprobe, secondary ion mass spectrometry, laser-ablation ICP-MS, and cathodoluminescence study. European Journal of Mineralogy, 2003, 15, 747-763.	1.3	188
11	Annealing radiation damage and the recovery of cathodoluminescence. Chemical Geology, 2002, 191, 121-140.	3.3	169
12	Trace elements and cathodoluminescence of quartz in stockwork veins of Mongolian porphyry-style deposits. Mineralium Deposita, 2010, 45, 707-727.	4.1	100
13	DATA ON 61 CHEMICAL ELEMENTS FOR THE CHARACTERIZATION OF THREE MAJOR GLASS COMPOSITIONS IN LATE ANTIQUITY AND THE MIDDLE AGES. Archaeometry, 2011, 53, 81-102.	1.3	100
14	Structure and Dynamics of the Laacher See Magma Chamber (Eifel, Germany) from Major and Trace Element Zoning in Sanidine: a Cathodoluminescence and Electron Microprobe Study. Journal of Petrology, 2004, 45, 2197-2223.	2.8	97
15	Growth and high-resolution paleoenvironmental signals of rhodoliths (coralline red algae): A new biogenic archive. Journal of Geophysical Research, 2000, 105, 22107-22116.	3.3	95
16	Long-term stability of alpha particle damage in natural zircon. Chemical Geology, 2005, 220, 83-103.	3.3	93
17	Coralline red algae as high-resolution climate recorders. Geology, 2008, 36, 463.	4.4	92
18	Arctic sea-ice decline archived by multicentury annual-resolution record from crustose coralline algal proxy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19737-19741.	7.1	85

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19	Cohenite, native iron and troilite inclusions in garnets from polycrystalline diamond aggregates. Contributions To Mineralogy and Petrology, 2004, 146, 566-576.	3.1	81
20	Characterisation of a Natural Quartz Crystal as a Reference Material for Microanalytical Determination of Ti, Al, Li, Fe, Mn, Ga and Ge. Geostandards and Geoanalytical Research, 2015, 39, 171-184.	3.1	81
21	The phenomenon of deficient electron microprobe totals in radiation-damaged and altered zircon. Geochimica Et Cosmochimica Acta, 2009, 73, 1637-1650.	3.9	78
22	Zircon texture and chemical composition as a guide to magmatic processes and mixing in a granitic environment and coeval volcanic system. Contributions To Mineralogy and Petrology, 2010, 159, 579-596.	3.1	73
23	A Raman spectroscopic study on the structural disorder of monaziteâ€“(Ce). Mineralogy and Petrology, 2012, 105, 41-55.	1.1	71
24	Combining CSD and isotopic microanalysis: Magma supply and mixing processes at Stromboli Volcano, Aeolian Islands, Italy. Earth and Planetary Science Letters, 2007, 260, 419-431.	4.4	69
25	The magmatic evolution of the Land's End pluton, Cornwall, and associated pre-enrichment of metals. Ore Geology Reviews, 2006, 28, 329-367.	2.7	66
26	Trace elements and cathodoluminescence of igneous quartz in topaz granites from the Hub Stock (Slavkovskï¿½ Les Mts., Czech Republic). Mineralogy and Petrology, 2003, 79, 167-191.	1.1	61
27	The significance of chemical, isotopic, and detrital components in three coeval stalagmites from the superhumid southernmost Andes (53Â°S) as high-resolution palaeo-climate proxies. Quaternary Science Reviews, 2011, 30, 443-459.	3.0	61
28	Volatile (S, Cl and F) and fluid mobile trace element compositions in melt inclusions: implications for variable fluid sources across the Kamchatka arc. Contributions To Mineralogy and Petrology, 2007, 154, 217-239.	3.1	60
29	HIGH-RESOLUTION MG/CA RATIOS IN A CORALLINE RED ALGA AS A PROXY FOR BERING SEA TEMPERATURE VARIATIONS FROM 1902 TO 1967. Palaios, 2009, 24, 406-412.	1.3	56
30	Nitrogen geochemistry as a tracer of fluid flow in a hydrothermal vent complex in the Karoo Basin, South Africa. Geochimica Et Cosmochimica Acta, 2008, 72, 4929-4947.	3.9	53
31	Coralline alga reveals first marine record of subarctic North Pacific climate change. Geophysical Research Letters, 2007, 34, .	4.0	52
32	Typology and single grain U/Pb ages of detrital zircons from Proterozoic sandstones in the SW Urals (Russia): early time marks at the eastern margin of Baltica. Precambrian Research, 2003, 124, 1-20.	2.7	50
33	Fluid-controlled quartz recovery in granulite as revealed by cathodoluminescence and trace element analysis (Bamble sector, Norway). Contributions To Mineralogy and Petrology, 2004, 146, 637-652.	3.1	50
34	Zircon M127 â€“ A Homogeneous Reference Material for <scp>SIMS</scp> Uâ€“Pb Geochronology Combined with Hafnium, Oxygen and, Potentially, Lithium Isotope Analysis. Geostandards and Geoanalytical Research, 2016, 40, 457-475.	3.1	49
35	Minor Elements in Layered Sphalerite as a Record of Fluid Origin, Mixing, and Crystallization in the Navan Zn-Pb Ore Deposit, Ireland. Economic Geology, 2014, 109, 1513-1528.	3.8	46
36	The evolution of late-Hercynian granites and rhyolites documented by quartz â€“ a review. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2009, 100, 185-204.	0.3	45

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37	Monazite geochronology unravels the timing of crustal thickening in NW Himalaya. Lithos, 2014, 210-211, 111-128.	1.4	45
38	High-resolution analysis of trace elements in crustose coralline algae from the North Atlantic and North Pacific by laser ablation ICP-MS. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 302, 81-94.	2.3	43
39	Quartz chemistry in polygeneration Sveconorwegian pegmatites, Froland, Norway. European Journal of Mineralogy, 2008, 20, 447-463.	1.3	41
40	Rare earth element fractionation in magmatic Ca-rich garnets. Contributions To Mineralogy and Petrology, 2007, 154, 55-74.	3.1	39
41	Compositionally zoned Cl-rich amphiboles from North Dabie Shan, China: monitor of high-pressure metamorphic fluid/rock interaction processes. Lithos, 2005, 81, 279-295.	1.4	37
42	Internal structures and dating of complex zircons from Meissen Massif monzonites, Saxony. Chemical Geology, 1999, 156, 331-341.	3.3	36
43	Mineralogical and geochemical characterization of high-medieval leadâ€“silver smelting slags from Wiesloch near Heidelberg (Germany)â€”an approach to process reconstruction. Archaeological and Anthropological Sciences, 2010, 2, 191-215.	1.8	36
44	Growth of, and diffusion in, olivine in ultra-fast ascending basalt magmas from Shiveluch volcano. Scientific Reports, 2018, 8, 11775.	3.3	36
45	Effects of natural radiation damage on back-scattered electron images of single crystals of minerals. American Mineralogist, 2006, 91, 1739-1746.	1.9	35
46	Anorthite-calibrated backscattered electron profiles, trace elements, and growth textures in feldspars from the Teideâ€“Pico Viejo volcanic complex (Tenerife). Journal of Volcanology and Geothermal Research, 2006, 154, 117-130.	2.1	35
47	Trace element chemistry and textures of quartz during the magmatic hydrothermal transition of Oslo Rift granites. Mineralogical Magazine, 2009, 73, 691-707.	1.4	32
48	<scp>GZ</scp>7 and <scp>GZ</scp>8 â€“ Two Zircon Reference Materials for <scp>SIMS</scp> Uâ€Pb Geochronology. Geostandards and Geoanalytical Research, 2018, 42, 431-457.	3.1	32
49	Isotopic Compositions (Liâ€Bâ€Siâ€Oâ€Mgâ€Srâ€Ndâ€Hfâ€Pb) and Fe²⁺/Î£Fe Ratios of Three Synthetic Andesite Glass Reference Materials (ARMâ€1, ARMâ€2, ARMâ€3). Geostandards and Geoanalytical Research, 2021, 45, 719-745.	3.1	32
50	Copper complexes as catalyst precursors in the electrochemical hydrogen evolution reaction. Dalton Transactions, 2016, 45, 6974-6982.	3.3	31
51	Deciphering fluid inclusions in high-grade rocks. Geoscience Frontiers, 2014, 5, 683-695.	8.4	30
52	Calcification of the acetabular labrum of the hip: prevalence in the general population and relation to hip articular cartilage and fibrocartilage degeneration. Arthritis Research and Therapy, 2018, 20, 104.	3.5	30
53	Chaotic three-dimensional distribution of Ba, Rb, and Sr in feldspar megacrysts grown in an open magmatic system. Contributions To Mineralogy and Petrology, 2011, 162, 909-927.	3.1	29
54	COMPOSITIONAL ZONING OF RAPAKIVI FELDSPARS AND COEXISTING QUARTZ PHENOCRYSTS. Canadian Mineralogist, 2008, 46, 1417-1442.	1.0	28

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55	Nano-inclusion suite and high resolution micro-computed-tomography of polycrystalline diamond (framesite) from Orapa, Botswana. Earth and Planetary Science Letters, 2011, 308, 307-316.	4.4	26
56	The chemical composition including the Rare Earth Elements of the three major glass types of Europe and the Orient used in late antiquity and the Middle Ages. Chemie Der Erde, 2011, 71, 289-296.	2.0	25
57	Miniaturized biosignature analysis reveals implications for the formation of cold seep carbonates at Hydrate Ridge (off Oregon, USA). Biogeosciences, 2008, 5, 731-738.	3.3	24
58	Ancient microbial activity recorded in fracture fillings from granitic rocks (Ã„spÃ¶ Hard Rock) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	2.4	24
59	Raman spectroscopy of synthetic (Mg,Fe)SiO3 single crystals. An analytical tool for natural orthopyroxenes. European Journal of Mineralogy, 2009, 21, 27-32.	1.3	23
60	Marine proxy evidence linking decadal North Pacific and Atlantic climate. Climate Dynamics, 2012, 39, 1447-1455.	3.8	22
61	Ductile deformation of garnet in mylonitic gneisses from the MÃ¼nchberg Massif (Germany). Tectonophysics, 2006, 427, 153-170.	2.2	21
62	Description of an aerodynamic levitation apparatus with applications in Earth sciences. Geochemical Transactions, 2010, 11, 4.	0.7	20
63	Hydrogen incorporation in enstatite in the system MgOâ€“SiO2â€“H2Oâ€“NaCl. Contributions To Mineralogy and Petrology, 2008, 156, 653-659.	3.1	19
64	Effects of light and temperature on Mg uptake, growth, and calcification in the proxy climate archive <i>Clathromorphum</i> <i>compactum</i>. Biogeosciences, 2018, 15, 5745-5759.	3.3	19
65	Trevorite: Ni-rich spinel formed by metasomatism and desulfurization processes at Bon Accord, South Africa?. Mineralogical Magazine, 2014, 78, 145-163.	1.4	18
66	Phosphorus-rich topaz from fractionated granites (Podlesï¿½, Czech Republic). Mineralogy and Petrology, 2004, 81, 235-247.	1.1	17
67	Detrital rutile geochemistry and thermometry from the Dabie orogen: Implications for sourceâ€“sediment links in a UHPM terrane. Journal of Asian Earth Sciences, 2014, 89, 123-140.	2.3	16
68	Analysis of Low Element Concentrations in Quartz by Electron Microprobe. Springer Geology, 2012, , 191-217.	0.3	15
69	Reproducibility of Clathromorphum compactum coralline algal Mg/Ca ratios and comparison to high-resolution sea surface temperature data. Geochimica Et Cosmochimica Acta, 2018, 220, 96-109.	3.9	15
70	Fo and Ni Relations in Olivine Differentiate between Crystallization and Diffusion Trends. Journal of Petrology, 2021, 61, .	2.8	15
71	An Excel-based tool for evaluating and visualizing geothermobarometry data. Computers and Geosciences, 2013, 56, 178-185.	4.2	14
72	Release of zirconia nanoparticles at the metal stemâ€“bone cement interface in implant loosening of total hip replacements. Acta Biomaterialia, 2016, 31, 412-424.	8.3	14

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73	The hydrothermal Waterberg platinum deposit, Mookgophong (Naboomspruit), South Africa. Part II: Quartz chemistry, fluid inclusions and geochronology. Mineralogical Magazine, 2018, 82, 751-778.	1.4	11
74	Revisiting the Synthesis and Elucidating the Structure of Potassium Cyclopentadienyldicarbonylruthenate, K[CpRu(CO)₂]. Organometallics, 2014, 33, 1475-1479.	2.3	10
75	On the compositional variability of dalyite, K2ZrSi6O15: a new occurrence from Terceira, Azores. Mineralogical Magazine, 2016, 80, 547-565.	1.4	10
76	Automatic endmember selection and nonlinear spectral unmixing of Lunar analog minerals. Icarus, 2017, 284, 126-149.	2.5	10
77	Effects of irradiation damage on the back-scattering of electrons: Silicon-implanted silicon. American Mineralogist, 2007, 92, 1768-1771.	1.9	9
78	In situ 238U-230Th disequilibrium dating of pyrochlore at sub-millennial precision. American Mineralogist, 2010, 95, 1353-1356.	1.9	9
79	Jurassic granitoid magmatism in the Dinaride Neotethys: geochronological constraints from detrital minerals. Terra Nova, 2009, 21, 495-506.	2.1	6
80	Coralline Algae Archive Fjord Surface Water Temperatures in Southwest Greenland. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2617-2626.	3.0	5
81	Suitability of the Coralline Alga Clathromorphum compactum as an Arctic Archive for Past Sea Ice Cover. Paleoceanography and Paleoclimatology, 2022, 37, .	2.9	5
82	The evolution of late-Hercynian granites and rhyolites documented by quartz â€“ a review. , 2010, , .		3
83	High-resolution stalagmite stratigraphy supports the Late Holocene tephrochronology of southernmost Patagonia. Communications Earth & Environment, 2022, 3, .	6.8	3
84	Does the Coralline Alga Leptophytum foecundum (Kjellman) Capture Paleoenvironmental Variability in the Arctic Ocean?. Arctic, Antarctic, and Alpine Research, 2015, 47, 375-387.	1.1	2