

# 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	Suitability of the Coralline Alga <i>Clathromorphum compactum</i> as an Arctic Archive for Past Sea Ice Cover. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	5
2	High-resolution stalagmite stratigraphy supports the Late Holocene tephrochronology of southernmost Patagonia. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	3
3	Fo and Ni Relations in Olivine Differentiate between Crystallization and Diffusion Trends. <i>Journal of Petrology</i> , 2021, 61, .	2.8	15
4	Isotopic Compositions ( $Li^{6/7}$ , $Si^{28/29}$ , $O^{16/17}$ , $Mg^{24/25}$ , $Sr^{86/87}$ , $Nd^{142/143}$ , $Hf^{178/179}$ , $Pb$ ) and $Fe^{2+}/Fe$ Ratios of Three Synthetic Andesite Glass Reference Materials (ARM1, ARM2, ARM3). <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 719-745.	3.1	32
5	The hydrothermal Waterberg platinum deposit, Mookgophong (Naboomspruit), South Africa. Part II: Quartz chemistry, fluid inclusions and geochronology. <i>Mineralogical Magazine</i> , 2018, 82, 751-778.	1.4	11
6	Reproducibility of <i>Clathromorphum compactum</i> coralline algal Mg/Ca ratios and comparison to high-resolution sea surface temperature data. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 96-109.	3.9	15
7	Effects of light and temperature on Mg uptake, growth, and calcification in the proxy climate archive <i>Clathromorphum compactum</i> . <i>Biogeosciences</i> , 2018, 15, 5745-5759.	3.3	19
8	$GZ^7$ and $GZ^8$ – Two Zircon Reference Materials for $SIMS$ $U^{235}/Pb$ Geochronology. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 431-457.	3.1	32
9	Coralline Algae Archive Fjord Surface Water Temperatures in Southwest Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2617-2626.	3.0	5
10	Calcification of the acetabular labrum of the hip: prevalence in the general population and relation to hip articular cartilage and fibrocartilage degeneration. <i>Arthritis Research and Therapy</i> , 2018, 20, 104.	3.5	30
11	Growth of, and diffusion in, olivine in ultra-fast ascending basalt magmas from Shiveluch volcano. <i>Scientific Reports</i> , 2018, 8, 11775.	3.3	36
12	Automatic endmember selection and nonlinear spectral unmixing of Lunar analog minerals. <i>Icarus</i> , 2017, 284, 126-149.	2.5	10
13	Zircon M127 – A Homogeneous Reference Material for $SIMS$ $U^{235}/Pb$ Geochronology Combined with Hafnium, Oxygen and, Potentially, Lithium Isotope Analysis. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 457-475.	3.1	49
14	On the compositional variability of dalyite, $K_2ZrSi_6O_{15}$ : a new occurrence from Terceira, Azores. <i>Mineralogical Magazine</i> , 2016, 80, 547-565.	1.4	10
15	Release of zirconia nanoparticles at the metal stem–bone cement interface in implant loosening of total hip replacements. <i>Acta Biomaterialia</i> , 2016, 31, 412-424.	8.3	14
16	Copper complexes as catalyst precursors in the electrochemical hydrogen evolution reaction. <i>Dalton Transactions</i> , 2016, 45, 6974-6982.	3.3	31
17	Does the Coralline Alga <i>Leptophytum foecundum</i> (Kjellman) Capture Paleoenvironmental Variability in the Arctic Ocean?. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 375-387.	1.1	2
18	Characterisation of a Natural Quartz Crystal as a Reference Material for Microanalytical Determination of Ti, Al, Li, Fe, Mn, Ga and Ge. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 171-184.	3.1	81

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19	Deciphering fluid inclusions in high-grade rocks. <i>Geoscience Frontiers</i> , 2014, 5, 683-695.	8.4	30
20	Trevorite: Ni-rich spinel formed by metasomatism and desulfurization processes at Bon Accord, South Africa?. <i>Mineralogical Magazine</i> , 2014, 78, 145-163.	1.4	18
21	Detrital rutile geochemistry and thermometry from the Dabie orogen: Implications for source-sediment links in a UHPM terrane. <i>Journal of Asian Earth Sciences</i> , 2014, 89, 123-140.	2.3	16
22	Monazite geochronology unravels the timing of crustal thickening in NW Himalaya. <i>Lithos</i> , 2014, 210-211, 111-128.	1.4	45
23	Minor Elements in Layered Sphalerite as a Record of Fluid Origin, Mixing, and Crystallization in the Navan Zn-Pb Ore Deposit, Ireland. <i>Economic Geology</i> , 2014, 109, 1513-1528.	3.8	46
24	Revisiting the Synthesis and Elucidating the Structure of Potassium Cyclopentadienyldicarbonylruthenate, $K[CpRu(CO)_2]$ . <i>Organometallics</i> , 2014, 33, 1475-1479.	2.3	10
25	Arctic sea-ice decline archived by multicentury annual-resolution record from crustose coralline algal proxy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19737-19741.	7.1	85
26	An Excel-based tool for evaluating and visualizing geothermobarometry data. <i>Computers and Geosciences</i> , 2013, 56, 178-185.	4.2	14
27	Marine proxy evidence linking decadal North Pacific and Atlantic climate. <i>Climate Dynamics</i> , 2012, 39, 1447-1455.	3.8	22
28	Ancient microbial activity recorded in fracture fillings from granitic rocks (Å,spÅ¶ Hard Rock) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.4	24
29	Analysis of Low Element Concentrations in Quartz by Electron Microprobe. <i>Springer Geology</i> , 2012, , 191-217.	0.3	15
30	A Raman spectroscopic study on the structural disorder of monazite (Ce). <i>Mineralogy and Petrology</i> , 2012, 105, 41-55.	1.1	71
31	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. <i>Chemie Der Erde</i> , 2011, 71, 289-296.	2.0	25
32	Nano-inclusion suite and high resolution micro-computed-tomography of polycrystalline diamond (framesite) from Orapa, Botswana. <i>Earth and Planetary Science Letters</i> , 2011, 308, 307-316.	4.4	26
33	High-resolution analysis of trace elements in crustose coralline algae from the North Atlantic and North Pacific by laser ablation ICP-MS. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 302, 81-94.	2.3	43
34	The significance of chemical, isotopic, and detrital components in three coeval stalagmites from the superhumid southernmost Andes (53Å°S) as high-resolution palaeo-climate proxies. <i>Quaternary Science Reviews</i> , 2011, 30, 443-459.	3.0	61
35	DATA ON 61 CHEMICAL ELEMENTS FOR THE CHARACTERIZATION OF THREE MAJOR GLASS COMPOSITIONS IN LATE ANTIQUITY AND THE MIDDLE AGES. <i>Archaeometry</i> , 2011, 53, 81-102.	1.3	100
36	Chaotic three-dimensional distribution of Ba, Rb, and Sr in feldspar megacrysts grown in an open magmatic system. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 909-927.	3.1	29

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37	Trace elements and cathodoluminescence of quartz in stockwork veins of Mongolian porphyry-style deposits. <i>Mineralium Deposita</i> , 2010, 45, 707-727.	4.1	100
38	Zircon texture and chemical composition as a guide to magmatic processes and mixing in a granitic environment and coeval volcanic system. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 579-596.	3.1	73
39	Mineralogical and geochemical characterization of high-medieval lead-silver smelting slags from Wiesloch near Heidelberg (Germany) – an approach to process reconstruction. <i>Archaeological and Anthropological Sciences</i> , 2010, 2, 191-215.	1.8	36
40	Description of an aerodynamic levitation apparatus with applications in Earth sciences. <i>Geochemical Transactions</i> , 2010, 11, 4.	0.7	20
41	The evolution of late-Hercynian granites and rhyolites documented by quartz – a review. , 2010, , .		3
42	In situ <sup>238</sup> U- <sup>230</sup> Th disequilibrium dating of pyrochlore at sub-millennial precision. <i>American Mineralogist</i> , 2010, 95, 1353-1356.	1.9	9
43	The evolution of late-Hercynian granites and rhyolites documented by quartz – a review. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2009, 100, 185-204.	0.3	45
44	Raman spectroscopy of synthetic (Mg,Fe)SiO <sub>3</sub> single crystals. An analytical tool for natural orthopyroxenes. <i>European Journal of Mineralogy</i> , 2009, 21, 27-32.	1.3	23
45	HIGH-RESOLUTION MG/CA RATIOS IN A CORALLINE RED ALGA AS A PROXY FOR BERING SEA TEMPERATURE VARIATIONS FROM 1902 TO 1967. <i>Palaios</i> , 2009, 24, 406-412.	1.3	56
46	Jurassic granitoid magmatism in the Dinaride Neotethys: geochronological constraints from detrital minerals. <i>Terra Nova</i> , 2009, 21, 495-506.	2.1	6
47	Trace element chemistry and textures of quartz during the magmatic hydrothermal transition of Oslo Rift granites. <i>Mineralogical Magazine</i> , 2009, 73, 691-707.	1.4	32
48	Rutile crystals as potential trace element and isotope mineral standards for microanalysis. <i>Chemical Geology</i> , 2009, 261, 346-369.	3.3	208
49	The phenomenon of deficient electron microprobe totals in radiation-damaged and altered zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1637-1650.	3.9	78
50	Hydrogen incorporation in enstatite in the system MgO-SiO <sub>2</sub> -H <sub>2</sub> O-NaCl. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 653-659.	3.1	19
51	Nitrogen geochemistry as a tracer of fluid flow in a hydrothermal vent complex in the Karoo Basin, South Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4929-4947.	3.9	53
52	Zircon M257 – a Homogeneous Natural Reference Material for the Ion Microprobe U-Pb Analysis of Zircon. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 247-265.	3.1	591
53	COMPOSITIONAL ZONING OF RAPAKIVI FELDSPARS AND COEXISTING QUARTZ PHENOCRYSTS. <i>Canadian Mineralogist</i> , 2008, 46, 1417-1442.	1.0	28
54	Coralline red algae as high-resolution climate recorders. <i>Geology</i> , 2008, 36, 463.	4.4	92

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55	Quartz chemistry in polygeneration Sveconorwegian pegmatites, Froland, Norway. <i>European Journal of Mineralogy</i> , 2008, 20, 447-463.	1.3	41
56	Miniaturized biosignature analysis reveals implications for the formation of cold seep carbonates at Hydrate Ridge (off Oregon, USA). <i>Biogeosciences</i> , 2008, 5, 731-738.	3.3	24
57	Effects of irradiation damage on the back-scattering of electrons: Silicon-implanted silicon. <i>American Mineralogist</i> , 2007, 92, 1768-1771.	1.9	9
58	Combining CSD and isotopic microanalysis: Magma supply and mixing processes at Stromboli Volcano, Aeolian Islands, Italy. <i>Earth and Planetary Science Letters</i> , 2007, 260, 419-431.	4.4	69
59	Crystal Zoning as an Archive for Magma Evolution. <i>Elements</i> , 2007, 3, 261-266.	0.5	192
60	Coralline alga reveals first marine record of subarctic North Pacific climate change. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	52
61	Rare earth element fractionation in magmatic Ca-rich garnets. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 55-74.	3.1	39
62	Volatile (S, Cl and F) and fluid mobile trace element compositions in melt inclusions: implications for variable fluid sources across the Kamchatka arc. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 217-239.	3.1	60
63	Ductile deformation of garnet in mylonitic gneisses from the M <sup>1</sup> / <sub>4</sub> nchberg Massif (Germany). <i>Tectonophysics</i> , 2006, 427, 153-170.	2.2	21
64	Effects of natural radiation damage on back-scattered electron images of single crystals of minerals. <i>American Mineralogist</i> , 2006, 91, 1739-1746.	1.9	35
65	Anorthite-calibrated backscattered electron profiles, trace elements, and growth textures in feldspars from the Teide-Pico Viejo volcanic complex (Tenerife). <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, 117-130.	2.1	35
66	The magmatic evolution of the Land's End pluton, Cornwall, and associated pre-enrichment of metals. <i>Ore Geology Reviews</i> , 2006, 28, 329-367.	2.7	66
67	Compositionally zoned Cl-rich amphiboles from North Dabie Shan, China: monitor of high-pressure metamorphic fluid/rock interaction processes. <i>Lithos</i> , 2005, 81, 279-295.	1.4	37
68	Long-term stability of alpha particle damage in natural zircon. <i>Chemical Geology</i> , 2005, 220, 83-103.	3.3	93
69	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. <i>Journal of Petrology</i> , 2004, 45, 2197-2223.	2.8	97
70	Further Characterisation of the 91500 Zircon Crystal. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 9-39.	1.9	1,142
71	Cohenite, native iron and troilite inclusions in garnets from polycrystalline diamond aggregates. <i>Contributions To Mineralogy and Petrology</i> , 2004, 146, 566-576.	3.1	81
72	Fluid-controlled quartz recovery in granulite as revealed by cathodoluminescence and trace element analysis (Bamble sector, Norway). <i>Contributions To Mineralogy and Petrology</i> , 2004, 146, 637-652.	3.1	50

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73	Temperature dependence of Zr in rutile: empirical calibration of a rutile thermometer. Contributions To Mineralogy and Petrology, 2004, 148, 471-488.	3.1	449
74	Phosphorus-rich topaz from fractionated granites (Podlesí½, Czech Republic). Mineralogy and Petrology, 2004, 81, 235-247.	1.1	17
75	Rutile geochemistry and its potential use in quantitative provenance studies. Sedimentary Geology, 2004, 171, 37-58.	2.1	255
76	Trace elements and cathodoluminescence of igneous quartz in topaz granites from the Hub Stock (Slavkovský½ Les Mts., Czech Republic). Mineralogy and Petrology, 2003, 79, 167-191.	1.1	61
77	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
78	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
79	Trace element abundances in rutiles from eclogites and associated garnet mica schists. Chemical Geology, 2002, 184, 97-122.	3.3	320
80	Annealing radiation damage and the recovery of cathodoluminescence. Chemical Geology, 2002, 191, 121-140.	3.3	169
81	Minor- and trace-element zoning in plagioclase: implications for magma chamber processes at Paríacota volcano, northern Chile. Contributions To Mineralogy and Petrology, 2002, 143, 300-315.	3.1	217
82	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
83	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
84	Internal structures and dating of complex zircons from Meissen Massif monzonites, Saxony. Chemical Geology, 1999, 156, 331-341.	3.3	36