

Karsten Goemann

List of Publications by Year in descending order

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69
papers

2,162
citations

218677

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72
times ranked

1842
citing authors

#	ARTICLE	IF	CITATIONS
1	Anterior Capsulotomy Integrity after Femtosecond Laser-Assisted Cataract Surgery. <i>Ophthalmology</i> , 2014, 121, 17-24.	5.2	142
2	Sr diffusion in undoped and La-doped SrTiO ₃ single crystals under oxidizing conditions. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2053-2060.	2.8	122
3	Constraints on kimberlite ascent mechanisms revealed by phlogopite compositions in kimberlites and mantle xenoliths. <i>Lithos</i> , 2016, 240-243, 189-201.	1.4	111
4	Mineralogy and Formation of Black Smoker Chimneys from Brothers Submarine Volcano, Kermadec Arc. <i>Economic Geology</i> , 2012, 107, 1613-1633.	3.8	107
5	Nature of alkali-carbonate fluids in the sub-continental lithospheric mantle. <i>Geology</i> , 2012, 40, 967-970.	4.4	88
6	Petrogenesis of Mantle Polymict Breccias: Insights into Mantle Processes Coeval with Kimberlite Magmatism. <i>Journal of Petrology</i> , 2014, 55, 831-858.	2.8	86
7	The final stages of kimberlite petrogenesis: Petrography, mineral chemistry, melt inclusions and Sr-C-O isotope geochemistry of the Bultfontein kimberlite (Kimberley, South Africa). <i>Chemical Geology</i> , 2017, 455, 342-356.	3.3	78
8	Authigenic monazite and detrital zircon dating from the Proterozoic Rocky Cape Group, Tasmania: Links to the Belt-Purcell Supergroup, North America. <i>Precambrian Research</i> , 2014, 250, 50-67.	2.7	77
9	New Olivine Reference Material for <i>In Situ</i> Microanalysis. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 453-473.	3.1	77
10	Parental carbonatitic melt of the Koala kimberlite (Canada): Constraints from melt inclusions in olivine and Cr-spinel, and groundmass carbonate. <i>Chemical Geology</i> , 2013, 353, 96-111.	3.3	72
11	Kimberlite genesis from a common carbonate-rich primary melt modified by lithospheric mantle assimilation. <i>Science Advances</i> , 2020, 6, eaaz0424.	10.3	72
12	Matrix effects in Pb/U measurements during LA-ICP-MS analysis of the mineral apatite. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1206-1215.	3.0	71
13	Evidence for an Intrabasinal Source and Multiple Concentration Processes in the Formation of the Carbon Leader Reef, Witwatersrand Supergroup, South Africa. <i>Economic Geology</i> , 2013, 108, 1215-1241.	3.8	63
14	Ti diffusion in La-doped SrTiO ₃ single crystals. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3639-3644.	2.8	58
15	Fractionation of sulphur relative to iron during laser ablation-ICP-MS analyses of sulphide minerals: implications for quantification. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1024-1033.	3.0	46
16	Origin of complex zoning in olivine from diverse, diamondiferous kimberlites and tectonic settings: Ekati (Canada), Alto Paranaíba (Brazil) and Kaalvallei (South Africa). <i>Mineralogy and Petrology</i> , 2018, 112, 539-554.	1.1	43
17	Composition and emplacement of the Benfontein kimberlite sill complex (Kimberley, South Africa): Textural, petrographic and melt inclusion constraints. <i>Lithos</i> , 2019, 324-325, 297-314.	1.4	43
18	Chemical abrasion of zircon and ilmenite megacrysts in the Monastery kimberlite: Implications for the composition of kimberlite melts. <i>Chemical Geology</i> , 2014, 383, 76-85.	3.3	42

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19	MACROCRYSTALS OF Pt Fe ALLOY FROM THE KONDYOR PGE PLACER DEPOSIT, KHABAROVSKIY KRAY, RUSSIA: TRACE-ELEMENT CONTENT, MINERAL INCLUSIONS AND REACTION ASSEMBLAGES. <i>Canadian Mineralogist</i> , 2004, 42, 601-617.	1.0	41
20	Was Crustal Contamination Involved in the Formation of the Serpentine-Free Udachnaya-East Kimberlite? New Insights into Parental Melts, Liquidus Assemblage and Effects of Alteration. <i>Journal of Petrology</i> , 2018, 59, 1467-1492.	2.8	38
21	Island formation on 0.1 at.% La-doped SrTiO ₃ (100) at elevated temperatures under reducing conditions. <i>Surface Science</i> , 2003, 523, 80-88.	1.9	35
22	Monticellite in group-I kimberlites: Implications for evolution of parental melts and post-emplacement CO ₂ degassing. <i>Chemical Geology</i> , 2018, 478, 76-88.	3.3	35
23	Applications of hyperspectral mineralogy for geoenvironmental characterisation. <i>Minerals Engineering</i> , 2017, 107, 63-77.	4.3	34
24	Cathodoluminescence properties of quartz eyes from porphyry-type deposits: Implications for the origin of quartz. <i>American Mineralogist</i> , 2013, 98, 98-109.	1.9	31
25	Cu-Ni-PGE fertility of the Yoko-Dovyren layered massif (northern Transbaikalia, Russia): thermodynamic modeling of sulfide compositions in low mineralized dunite based on quantitative sulfide mineralogy. <i>Mineralium Deposita</i> , 2016, 51, 993-1011.	4.1	29
26	The Dovyren Intrusive Complex (Southern Siberia, Russia): Insights into dynamics of an open magma chamber with implications for parental magma origin, composition, and Cu-Ni-PGE fertility. <i>Lithos</i> , 2018, 302-303, 242-262.	1.4	28
27	Nickel-rich metasomatism of the lithospheric mantle by pre-kimberlitic alkali-Sr-CI-rich Ca-O-H fluids. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 155-171.	3.1	26
28	High Lability Fe Particles Sourced From Glacial Erosion Can Meet Previously Unaccounted Biological Demand: Heard Island, Southern Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	25
29	Polymineralic inclusions in kimberlite-hosted megacrysts: Implications for kimberlite melt evolution. <i>Lithos</i> , 2019, 336-337, 310-325.	1.4	25
30	Geometric structure and chemical composition of SrTiO ₃ surfaces heated under oxidizing and reducing conditions. <i>Surface Science</i> , 2002, 507-510, 447-452.	1.9	23
31	Study of the electronic and atomic structure of thermally treated SrTiO ₃ (110) surfaces. <i>Surface and Interface Analysis</i> , 2003, 35, 998-1003.	1.8	23
32	Different types of liquid immiscibility in carbonatite magmas: A case study of the Oldoinyo Lengai 1993 lava and melt inclusions. <i>Chemical Geology</i> , 2017, 455, 376-384.	3.3	22
33	Multipoint Background Analysis: Gaining Precision and Accuracy in Microprobe Trace Element Analysis. <i>Microscopy and Microanalysis</i> , 2019, 25, 30-46.	0.4	22
34	Changes in the surface topography and electronic structure of SrTiO ₃ (110) single crystals heated under oxidizing and reducing conditions. <i>Surface Science</i> , 2004, 566-568, 105-110.	1.9	20
35	Diversity of primary CL textures in quartz from porphyry environments: implication for origin of quartz eyes. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1253-1268.	3.1	20
36	Title is missing!. , 2002, 8, 221-228.		19

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37	Significance of halogens (F, Cl) in kimberlite melts: Insights from mineralogy and melt inclusions in the Roger pipe (Ekati, Canada). <i>Chemical Geology</i> , 2018, 478, 148-163.	3.3	19
38	Diversity in Ruby Geochemistry and Its Inclusions: Intra- and Inter- Continental Comparisons from Myanmar and Eastern Australia. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 28.	2.0	18
39	Improved methodology for the microwave digestion of carbonate-rich environmental samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 119-136.	3.3	17
40	Quantitative WDS compositional mapping using the electron microprobe. <i>American Mineralogist</i> , 2021, 106, 1717-1735.	1.9	17
41	Djerfisherite in kimberlites and their xenoliths: implications for kimberlite melt evolution. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	16
42	Postmagmatic magnetite-apatite assemblage in mafic intrusions: a case study of dolerite at Olympic Dam, South Australia. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	15
43	A story of olivine from the McIvor Hill complex (Tasmania, Australia): Clues to the origin of the Avebury metasomatic Ni sulfide deposit. <i>American Mineralogist</i> , 2016, 101, 1321-1331.	1.9	14
44	Precious metals in gossanous waste rocks from the Iberian Pyrite Belt. <i>Minerals Engineering</i> , 2016, 87, 45-53.	4.3	11
45	Evolution of kimberlite magmas in the crust: A case study of groundmass and mineral-hosted inclusions in the Mark kimberlite (Lac de Gras, Canada). <i>Lithos</i> , 2020, 372-373, 105690.	1.4	11
46	Nanostructures on La-doped SrTiO ₃ surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 924-928.	3.7	10
47	The evolution of authigenic Zn-Pb-Fe-bearing phases in the Grieves Siding peat, western Tasmania. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	10
48	Ultrastructural Integrity of Human Capsulotomies Created by a Thermal Device. <i>Ophthalmology</i> , 2018, 125, 340-344.	5.2	10
49	Textural evolution of perovskite in the Afrikanda alkaline-ultramafic complex, Kola Peninsula, Russia. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	10
50	Intraoperative performance and ultrastructural integrity of human capsulotomies created by the improved precision pulse capsulotomy device. <i>Journal of Cataract and Refractive Surgery</i> , 2018, 44, 1333-1335.	1.5	10
51	Novel Methods to Manipulate Autolysis in Sparkling Wine: Effects on Yeast. <i>Molecules</i> , 2021, 26, 387.	3.8	9
52	Assessment of the mineral ilmenite for U-Pb dating by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1244-1260.	3.0	9
53	Phase relations of arsenian pyrite and arsenopyrite. <i>Ore Geology Reviews</i> , 2021, 136, 104285.	2.7	9
54	Electronic structure and topography of annealed SrTiO ₃ (111) surfaces studied with MIES and STM. <i>Applied Surface Science</i> , 2005, 252, 196-199.	6.1	7

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55	Uâ€“Thâ€“Pb monazite dating and the timing of arcâ€“continent collision in East Timor. Australian Journal of Earth Sciences, 2016, 63, 367-377.	1.0	7
56	A genetic story of olivine crystallisation in the Mark kimberlite (Canada) revealed by zoning and melt inclusions. Lithos, 2020, 358-359, 105405.	1.4	7
57	Polymineralic inclusions in oxide minerals of the Afrikanda alkaline-ultramafic complex: Implications for the evolution of perovskite mineralisation. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	6
58	Use of Nonâ€“Matrix Matched Reference Materials for the Accurate Analysis of Calcium Carbonate by LAâ€“ICPâ€“MS. Geostandards and Geoanalytical Research, 2022, 46, 97-115.	3.1	5
59	Carbonates at the supergiant Olympic Dam Cu-U-Au-Ag deposit, South Australia. Part 1: Distribution, textures, associations and stable isotope (C, O) signatures. Ore Geology Reviews, 2020, 126, 103775.	2.7	4
60	Dissolution of mantle orthopyroxene in kimberlitic melts: Petrographic, geochemical and melt inclusion constraints from an orthopyroxenite xenolith from the Udachnaya-East kimberlite (Siberian) Tj ETQq0 0 Orig BT /Overclock 10 Tf		
61	Comparison and Combination of Energy and Wavelength Dispersive X-Ray Spectrometry in Electron Probe Microanalysis of Minerals and Glasses. Microscopy and Microanalysis, 2018, 24, 748-749.	0.4	3
62	Geochemistry and provenance of the Turquoise Bluff Slate, northeastern Tasmania: tectonic significance. Australian Journal of Earth Sciences, 2019, 66, 227-246.	1.0	3
63	An Investigation into the General Applicability of Quantification of Trace Ti in Quartz by Cathodoluminescence. Microscopy and Microanalysis, 2010, 16, 808-809.	0.4	2
64	Determination of Trace Elements in Quartz by Combined EPMA and CL Microspectrometry. Microscopy and Microanalysis, 2014, 20, 718-719.	0.4	2
65	Cation Transport and Surface Reconstruction in Lanthanum Doped Strontium Titanate at High Temperatures. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	1
66	Challenges in Electron Probe Microanalysis 60 Years after Castaing: Examples from Complex Uranium and Rare Earth Element Minerals from Northern Australian Ore Deposits. Microscopy and Microanalysis, 2011, 17, 578-579.	0.4	1
67	Gold and Arsenopyrite Exsolution and Limits of Arsenic Solubility in Pyrite Investigated by SEM, EPMA, and L-ICPMS. Microscopy and Microanalysis, 2015, 21, 1229-1230.	0.4	0
68	Reply. Ophthalmology, 2018, 125, e73-e74.	5.2	0
69	Prediction of Mineral Dust Properties at Mine Sites. , 2017, , 343-354.		0