

Lutz Nasdala

List of Publications by Year in descending order

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117625

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times ranked

6205
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#	ARTICLE	IF	CITATIONS
1	The parisite ¹⁴⁰ (Ce) enigma: challenges in the identification of fluorcarbonate minerals. <i>Mineralogy and Petrology</i> , 2021, 115, 1-19.	1.1	11
2	Dry annealing of radiation-damaged zircon: Single-crystal X-ray and Raman spectroscopy study. <i>Lithos</i> , 2021, 406-407, 106523.	1.4	5
3	The absence of metamictisation in natural monazite. <i>Scientific Reports</i> , 2020, 10, 14676.	3.3	18
4	Annealing kinetics of radiation damage in zircon. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 225-246.	3.9	67
5	⁴ He irradiation of zircon, ZrSiO ₄ , using a micro-patterned, Si-based energy filter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 443, 38-42.	1.4	1
6	Isotope-dilution anchoring of zircon reference materials for accurate Ti-in-zircon thermometry. <i>Chemical Geology</i> , 2018, 481, 146-154.	3.3	34
7	⁷ GZ and ⁸ GZ ¹⁴⁰ Two Zircon Reference Materials for ⁷ SIMS ¹⁴⁰ U ¹⁴⁰ Pb Geochronology. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 431-457.	3.1	32
8	Irradiation effects in monazite ¹⁴⁰ (Ce) and zircon: Raman and photoluminescence study of Au-irradiated FIB foils. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 855-871.	0.8	18
9	Blue Zircon from Ratanakiri, Cambodia. <i>Journal of Gemmology</i> , 2018, 36, 112-132.	0.2	20
10	Electron-beam-induced annealing of natural zircon: a Raman spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 389-401.	0.8	22
11	Alteration and chemical U-Th-total Pb dating of heterogeneous high-uranium zircon from a pegmatite from the Aduiskii massif, middle Urals, Russia. <i>Mineralogy and Petrology</i> , 2017, 111, 475-497.	1.1	18
12	Majoritic garnet grains within shock-induced melt veins in amphibolites from the Ries impact crater suggest ultrahigh crystallization pressures between 18 and 9AGPa. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	5
13	Spectroscopic study of inclusions in gem corundum from Mercaderes, Cauca, Colombia. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 221-233.	0.8	6
14	Neoproterozoic amorphous ¹⁴⁰ ceekomite ¹⁴⁰ (Ca ₂ Th _{0.9} U _{0.1} Si ₈ O ₂₀) from Okkampitiya, Sri Lanka: A metamict gemstone with excellent lead-retention performance. <i>Geology</i> , 2017, 45, 919-922.	4.4	5
15	RESOLVING LARGE MAGNITUDE AND WIDESPREAD ANNEALING OF LUNAR ZIRCON THROUGH CORRELATIVE SIMS, EBSD AND RAMAN SPECTROSCOPY. , 2017, , .		1
16	Zircon M127 ¹⁴⁰ A Homogeneous Reference Material for ⁷ SIMS ¹⁴⁰ U ¹⁴⁰ Pb Geochronology Combined with Hafnium, Oxygen and, Potentially, Lithium Isotope Analysis. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 457-475.	3.1	49
17	Unusual paired pattern of radiohaloes on a diamond crystal from Guaniamo (Venezuela). <i>Lithos</i> , 2016, 265, 177-181.	1.4	1
18	Age of the Siberian craton crust beneath the northern kimberlite fields: Insights to the craton evolution. <i>Gondwana Research</i> , 2016, 39, 365-385.	6.0	38

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19	Raman study of diamond-based abrasives, and possible artefacts in detecting UHP microdiamond. <i>Lithos</i> , 2016, 265, 317-327.	1.4	15
20	A photoluminescence study of REE ³⁺ emissions in radiation-damaged zircon. <i>American Mineralogist</i> , 2015, 100, 1123-1133.	1.9	26
21	Laser-induced REE ³⁺ photoluminescence of selected accessory minerals – An “advantageous artefact” in Raman spectroscopy. <i>Chemical Geology</i> , 2015, 415, 1-16.	3.3	64
22	Retention of radiation damage in zircon xenocrysts from kimberlites, Northern Yakutia. <i>Lithos</i> , 2014, 206-207, 252-261.	1.4	15
23	Photoluminescence of synthetic titanite-group pigments: A rare quenching effect. <i>Chemie Der Erde</i> , 2014, 74, 419-424.	2.0	5
24	Radio-colouration of diamond: a spectroscopic study. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 843-861.	3.1	31
25	Luminescence spectroscopy and imaging: analytical advances and perspectives in the Earth sciences and related disciplines. <i>Mineralogy and Petrology</i> , 2013, 107, 349-351.	1.1	2
26	Review of effects of radiation damage on the luminescence emission of minerals, and the example of He-irradiated CePO ₄ . <i>Mineralogy and Petrology</i> , 2013, 107, 441-454.	1.1	21
27	Factors affecting the Nd ³⁺ (REE ³⁺) luminescence of minerals. <i>Mineralogy and Petrology</i> , 2013, 107, 415-428.	1.1	44
28	Application of Raman-based images in the Earth sciences. <i>Springer Series in Optical Sciences</i> , 2012, , 145-187.	0.7	24
29	<sc>GGR</sc> Biennial Critical Review: Analytical Developments Since 2010. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 337-398.	3.1	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	Crystal-structure properties and the molecular nature of hydrostatically compressed realgar. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 399-412.	0.8	12
32	Ca-rich majorite derived from high-temperature melt and thermally stressed hornblende in shock veins of crustal rocks from the Ries impact crater (Germany). <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 275-291.	3.1	25
33	Helium irradiation study on zircon. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 777-789.	3.1	30
34	Phase Decomposition upon Alteration of Radiation-Damaged Monazite (Ce) from Moss, Åstfold, Norway. <i>Chimia</i> , 2010, 64, 705-711.	0.6	4
35	Metamorphic ultrahigh-pressure tourmaline: Structure, chemistry, and correlations to P-T conditions. <i>American Mineralogist</i> , 2010, 95, 1-10.	1.9	49
36	Retention of uranium in complexly altered zircon: An example from Bancroft, Ontario. <i>Chemical Geology</i> , 2010, 269, 290-300.	3.3	88

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37	Chemical alteration patterns in metamict fergusonite. <i>European Journal of Mineralogy</i> , 2010, 22, 425-433.	1.3	15
38	On the occurrence and boron isotopic composition of tourmaline in (ultra)high-pressure metamorphic rocks. <i>Journal of the Geological Society</i> , 2009, 166, 811-823.	2.1	78
39	On the breakdown of zircon upon "dry" thermal annealing. <i>Mineralogy and Petrology</i> , 2009, 97, 129-138.	1.1	24
40	Using Mg as a Proxy for Crystal Structure and Sr as an Indicator of Marine Growth in Vaterite and Aragonite Otoliths of Aquaculture Rainbow Trout. <i>Transactions of the American Fisheries Society</i> , 2009, 138, 1157-1165.	1.4	17
41	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
42	Raman study of radiation-damaged zircon under hydrostatic compression. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 597-602.	0.8	23
43	Shock-induced growth and metastability of stishovite and coesite in lithic clasts from suevite of the Ries impact crater (Germany). <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 457-472.	3.1	62
44	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
45	PleÅovice zircon " A new natural reference material for U-Pb and Hf isotopic microanalysis. <i>Chemical Geology</i> , 2008, 249, 1-35.	3.3	3,858
46	In situ micro-Raman and X-ray diffraction study of diamonds and petrology of the new ureilite UAE 001 from the United Arab Emirates. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1127-1136.	1.6	22
47	Effects of irradiation damage on the back-scattering of electrons: Silicon-implanted silicon. <i>American Mineralogist</i> , 2007, 92, 1768-1771.	1.9	9
48	Carbonates from the lower part of transition zone or even the lower mantle. <i>Earth and Planetary Science Letters</i> , 2007, 260, 1-9.	4.4	232
49	Origin of SiO ₂ -rich components in ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1548-1564.	3.9	57
50	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
51	Low-temperature Zr mobility: An in situ synchrotron-radiation XRF study of the effect of radiation damage in zircon on the element release in H ₂ O + HCl Å SiO ₂ fluids. <i>American Mineralogist</i> , 2006, 91, 1211-1215.	1.9	56
52	Growth zoning and strain patterns inside diamond crystals as revealed by Raman maps. <i>American Mineralogist</i> , 2005, 90, 745-748.	1.9	66
53	Long-term stability of alpha particle damage in natural zircon. <i>Chemical Geology</i> , 2005, 220, 83-103.	3.3	93
54	Detection of a Ca-rich lithology in the Earth's deep (>300 km) convecting mantle. <i>Earth and Planetary Science Letters</i> , 2005, 236, 579-587.	4.4	90

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55	Incomplete retention of radiation damage in zircon from Sri Lanka. <i>American Mineralogist</i> , 2004, 89, 219-231.	1.9	193
56	Spectroscopic 2D-tomography: Residual pressure and strain around mineral inclusions in diamonds. <i>European Journal of Mineralogy</i> , 2004, 15, 931-935.	1.3	57
57	Further Characterisation of the 91500 Zircon Crystal. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 9-39.	1.9	1,142
58	Shock-induced formation of kyanite (Al ₂ SiO ₅) from sillimanite within a dense metamorphic rock from the Ries crater (Germany). <i>Contributions To Mineralogy and Petrology</i> , 2004, 148, 150-159.	3.1	10
59	Evidence for fractional condensation and reprocessing at high temperatures in CH chondrites. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1199-1215.	1.6	54
60	Characterization of an early metamorphic stage through inclusions in zircon of a diamondiferous quartzofeldspathic rock from the Erzgebirge, Germany. <i>American Mineralogist</i> , 2003, 88, 883-889.	1.9	63
61	Radiation damage in zircon. <i>American Mineralogist</i> , 2003, 88, 770-781.	1.9	133
62	15. Spectroscopic methods applied to zircon. , 2003, , 427-468.		19
63	Annealing radiation damage and the recovery of cathodoluminescence. <i>Chemical Geology</i> , 2002, 191, 121-140.	3.3	169
64	The nature of radiohaloes in biotite: Experimental studies and modeling. <i>American Mineralogist</i> , 2001, 86, 498-512.	1.9	30
65	Metamictisation of natural zircon: accumulation versus thermal annealing of radioactivity-induced damage. <i>Contributions To Mineralogy and Petrology</i> , 2001, 141, 125-144.	3.1	350
66	Relevance of Cathodoluminescence for the Interpretation of U-Pb Zircon Ages, with an Example of an Application to a Study of Zircons from the Saxonian Granulite Complex, Germany. , 2000, , 415-455.		35
67	Microdiamonds from the Saxonian Erzgebirge, Germany: in situ micro-Raman characterisation. <i>European Journal of Mineralogy</i> , 2000, 12, 495-498.	1.3	133
68	Internal structures and dating of complex zircons from Meissen Massif monzonites, Saxony. <i>Chemical Geology</i> , 1999, 156, 331-341.	3.3	36
69	Constraining a SHRIMP U-Pb age: micro-scale characterization of zircons from Saxonian Rotliegend rhyolites. <i>Contributions To Mineralogy and Petrology</i> , 1998, 132, 300-306.	3.1	48
70	Occurrence and distribution of "moganite" in agate/chalcedony: a combined micro-Raman, Rietveld, and cathodoluminescence study. <i>Contributions To Mineralogy and Petrology</i> , 1998, 133, 96-105.	3.1	133
71	Gordaite [Zn ₄ Na(OH) ₆ (SO ₄)Cl.6H ₂ O]; second occurrence in the Juan de Fuca Ridge, and new data. <i>American Mineralogist</i> , 1998, 83, 1111-1116.	1.9	26
72	Crystal structure of Zn ₄ Na(OH) ₆ SO ₄ Cl·6H ₂ O. <i>Journal of Chemical Crystallography</i> , 1997, 27, 325-329.	1.1	11

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73	Heterogeneous metamictization of zircon on a microscale. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1091-1097.	3.9	82
74	The degree of metamictization in zircon: a Raman spectroscopic study. <i>European Journal of Mineralogy</i> , 1995, 7, 471-478.	1.3	237
75	Luminescence techniques in Earth Sciences. , 0, , 43-91.		23