

Makaiko Chithambo

List of Publications by Year in descending order

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108
papers

1,411
citations

361045

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h-index

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all docs

108
docs citations

108
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-induced inter-electron-trap charge movement in annealed Al ₂ O ₃ :C,Mg. Physica B: Condensed Matter, 2022, 624, 413438.	1.3	2
2	Phototransferred thermoluminescence characteristics of microcline (KAlSi ₃ O ₈) under 470Ånm blue- and 870Ånm infrared-light illumination. Applied Radiation and Isotopes, 2022, 181, 110070.	0.7	4
3	The kinetic parameters of the main thermoluminescence glow peak of Al ₂ O ₃ :C,Mg: A critical evaluation of different analytical methods. Journal of Luminescence, 2022, 247, 118848.	1.5	3
4	Processes related to phototransfer under blue- and green-light illumination in annealed Al ₂ O ₃ :C,Mg. Journal of Applied Physics, 2022, 131, 245101.	1.1	2
5	Concerning a hole trap in $\hat{\pm}$ -Al ₂ O ₃ :C,Mg. Journal of Applied Physics, 2022, 132, 015103.	1.1	1
6	Optically stimulated luminescence of cowrie shells. Applied Radiation and Isotopes, 2021, 167, 109463.	0.7	0
7	Analysis of illumination-time-dependent profiles of phototransferred thermoluminescence of Al ₂ O ₃ :C,Mg. Journal of Luminescence, 2021, 230, 117721.	1.5	6
8	Blue- and infrared-light stimulated luminescence of microcline and the effect of optical bleaching on its thermoluminescence. Journal of Luminescence, 2021, 229, 117712.	1.5	3
9	Thermal assistance in the optically stimulated luminescence of superluminous Sr ₄ Al ₁₄ O ₂₅ : Eu ²⁺ ,Dy ³⁺ . Physica B: Condensed Matter, 2021, 603, 412722.	1.3	12
10	Phototransferred thermoluminescence of tanzanite: A matrix-based analysis of time-response profiles and competition effects. Journal of Luminescence, 2021, 234, 117969.	1.5	7
11	Analysis of thermoluminescence and phosphorescence related to phototransfer in natural quartz. Journal of Luminescence, 2021, 238, 118217.	1.5	4
12	Phototransferred thermoluminescence of BeO: Time-response profiles and mechanisms. Journal of Applied Physics, 2021, 130, 195101.	1.1	7
13	Thermoluminescence of monoclinic ZrO ₂ : Kinetic analysis and dosimetric features. Journal of Luminescence, 2020, 218, 116864.	1.5	19
14	Phototransferred thermoluminescence of annealed synthetic quartz: Analysis of illumination-time profiles, kinetics and competition effects. Radiation Measurements, 2020, 131, 106236.	0.7	14
15	Thermoluminescence properties of potassium fluoride. Nuclear Instruments & Methods in Physics Research B, 2020, 482, 53-57.	0.6	6
16	Optically stimulated luminescence and spectral emission features of radioluminescence and thermoluminescence of natural kunzite. Radiation Measurements, 2020, 138, 106457.	0.7	0
17	Dosimetric features, kinetics and mechanisms of thermoluminescence of tanzanite. Physica B: Condensed Matter, 2020, 598, 412435.	1.3	4
18	F- and F+-band radioluminescence and the influence of annealing on its emission spectra in Al ₂ O ₃ :C,Mg. Radiation Measurements, 2020, 134, 106306.	0.7	7

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19	A combined study of the thermoluminescence and electron paramagnetic resonance of point defects in $ZrO_2:Er^{3+}$. <i>Radiation Physics and Chemistry</i> , 2020, 172, 108767.	1.4	11
20	Structural, compositional and thermoluminescence properties of microcline ($KAlSi_3O_8$). <i>Journal of Luminescence</i> , 2020, 224, 117320.	1.5	9
21	Thermoluminescence and fluorescence studies of argon-implanted aluminium oxide. <i>Radiation Effects and Defects in Solids</i> , 2019, 174, 708-720.	0.4	2
22	Thermoluminescence and infrared light stimulated luminescence of limestone ($CaCO_3$) and its dosimetric features. <i>Applied Radiation and Isotopes</i> , 2019, 154, 108888.	0.7	11
23	Phototransferred thermoluminescence from natural quartz annealed at $1000^\circ C$: Analysis of time-dependent evolution of intensity and competition effects. <i>Journal of Luminescence</i> , 2019, 216, 116730.	1.5	16
24	Phototransferred thermoluminescence and thermally-assisted optically stimulated luminescence dosimetry using $\hat{I}\pm-Al_2O_3:C,Mg$ annealed at $1200^\circ C$. <i>Journal of Luminescence</i> , 2019, 205, 1-6.	1.5	6
25	The influence of dopants on thermoluminescence of $Sr_2MgSi_2O_7$. <i>Journal of Luminescence</i> , 2019, 208, 104-107.	1.5	9
26	Temperature dependence of persistent luminescence in $CaAl_2O_4:Eu^{2+},Nd^{3+}$ related to beta irradiation and optical excitation. <i>Journal of Luminescence</i> , 2019, 206, 27-32.	1.5	18
27	Thermally and optically stimulated luminescence of natural red and blue corundum (Al_2O_3). <i>Journal of Luminescence</i> , 2019, 205, 417-422.	1.5	3
28	Influence of annealing on thermoluminescence of natural quartz: Kinetic analysis and experimental study of apparent inverse thermal quenching. <i>Radiation Measurements</i> , 2018, 120, 53-58.	0.7	4
29	Thermoluminescence of the persistent-luminescence phosphor, $BaAl_2O_4$; A stuffed tridymite. <i>Radiation Measurements</i> , 2018, 120, 73-77.	0.7	12
30	General features and kinetic analysis of thermoluminescence from annealed natural quartz. <i>Journal of Luminescence</i> , 2018, 197, 406-411.	1.5	6
31	Phototransferred thermoluminescence of synthetic quartz: Analysis of illumination-time response curves. <i>Journal of Luminescence</i> , 2018, 198, 146-154.	1.5	18
32	The effect of annealing and beta irradiation on thermoluminescence spectra of $\hat{I}\pm-Al_2O_3:C,Mg$. <i>Journal of Luminescence</i> , 2018, 196, 195-200.	1.5	17
33	Thermoluminescence of $\hat{I}\pm-Al_2O_3:C,Mg$ annealed at $1200^\circ C$. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 422, 78-84.	0.6	8
34	A study of the kinetics of a high temperature thermoluminescence peak in annealed natural quartz. <i>Journal of Luminescence</i> , 2018, 204, 603-608.	1.5	4
35	Spectral study of radioluminescence in carbon-doped aluminium oxide. <i>Radiation Measurements</i> , 2018, 120, 89-95.	0.7	3
36	Thermoluminescence of annealed synthetic quartz: The influence of annealing on kinetic parameters and thermal quenching. <i>Radiation Measurements</i> , 2018, 120, 47-52.	0.7	9

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37	Characteristics of the thermoluminescence of Sm ³⁺ -doped P2O5-K2O-MgO-Al2O3-ZnF2 glass. Radiation Measurements, 2018, 120, 83-88.	0.7	6
38	Optically stimulated luminescence of ultra-high molecular weight polyethylene: A study of dosimetric features. Radiation Measurements, 2018, 120, 78-82.	0.7	2
39	The effect of pre-dose on thermally and optically stimulated luminescence from $\hat{I}\pm$ -Al2O3:C,Mg and $\hat{I}\pm$ -Al2O3:C. Applied Radiation and Isotopes, 2018, 140, 69-75.	0.7	5
40	The influence of dose on the kinetic parameters and dosimetric features of the main thermoluminescence glow peak in $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Nuclear Instruments & Methods in Physics Research B, 2017, 394, 12-19.	0.6	32
41	Comprehensive kinetic analysis of thermoluminescence peaks of $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Journal of Luminescence, 2017, 185, 72-82.	1.5	34
42	Radioluminescence of annealed synthetic quartz. Radiation Measurements, 2017, 106, 35-39.	0.7	7
43	Dose response and kinetic analysis of thermoluminescence of Li ⁺ Zn fluoroborate glass. Radiation Effects and Defects in Solids, 2017, 172, 323-336.	0.4	5
44	Thermally-assisted optically stimulated luminescence from deep electron traps in $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Nuclear Instruments & Methods in Physics Research B, 2017, 403, 28-32.	0.6	14
45	Phototransferred thermoluminescence in $\hat{I}\pm$ -Al 2 O 3 :C,Mg under 470 nm blue light stimulation. Journal of Luminescence, 2017, 188, 371-377.	1.5	11
46	Features of an annealing-induced thermoluminescence peak in $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Optical Materials, 2017, 70, 158-164.	1.7	7
47	Kinetic analysis and general features of thermoluminescence of B2O3-Li2O-ZnF2 glass. Radiation Measurements, 2017, 100, 1-8.	0.7	4
48	On the sensitivity of thermally and optically stimulated luminescence of $\hat{I}\pm$ -Al 2 O 3 :C and $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Radiation Measurements, 2017, 99, 18-24.	0.7	23
49	Thermoluminescence of K-Mg-Al-Zn fluorophosphate glass. Optical Materials, 2017, 64, 302-309.	1.7	12
50	Thermoluminescence of SrAl2O4:Eu ²⁺ , Dy ³⁺ : Kinetic analysis of a composite-peak. Radiation Measurements, 2017, 97, 1-13.	0.7	33
51	Thermoluminescence of the main peak in SrAl2O4:Eu ²⁺ , Dy ³⁺ : Spectral and kinetics features of secondary emission detected in the ultra-violet region. Radiation Measurements, 2017, 96, 29-41.	0.7	11
52	Phototransferred thermoluminescence of $\hat{I}\pm$ -Al 2 O 3 :C: Experimental results and empirical models. Radiation Measurements, 2017, 105, 7-16.	0.7	26
53	Factors influencing the shape of CW-OSL signal obtained by stimulation of very deep traps in carbon-doped aluminium oxide: An experimental study. Journal of Luminescence, 2017, 192, 436-442.	1.5	1
54	Temperature dependence of optically stimulated luminescence of $\hat{I}\pm$ -Al 2 O 3 :C,Mg. Nuclear Instruments & Methods in Physics Research B, 2017, 410, 16-20.	0.6	3

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55	Temperature-dependence of time-resolved optically stimulated luminescence and composition heterogeneity of synthetic $\hat{\Gamma}$ -Al ₂ O ₃ :C. <i>Journal of Luminescence</i> , 2017, 182, 252-262.	1.5	16
56	Thermoluminescence of $\hat{\Gamma}$ -Al ₂ O ₃ :C,Mg: Kinetic analysis of the main glow peak. <i>Journal of Luminescence</i> , 2017, 182, 177-182.	1.5	44
57	A COMPARATIVE STUDY OF THE DOSIMETRIC FEATURES OF $\hat{\Gamma}$ -Al ₂ O ₃ :C,Mg AND $\hat{\Gamma}$ -Al ₂ O ₃ :C. <i>Radiation Protection Dosimetry</i> , 2017, 177, 261-271.	0.4	16
58	Influence of argon-implantation on conventional and phototransferred thermoluminescence of synthetic quartz. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 328-339.	0.4	3
59	Thermoluminescence of kunzite: A study of kinetic processes and dosimetry characteristics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 373, 44-51.	0.6	5
60	On luminescence stimulated from deep traps using thermally-assisted time-resolved optical stimulation in $\hat{\Gamma}$ -Al ₂ O ₃ :C. <i>Radiation Measurements</i> , 2016, 90, 109-112.	0.7	11
61	Time-resolved luminescence from quartz: An overview of contemporary developments and applications. <i>Physica B: Condensed Matter</i> , 2016, 481, 8-18.	1.3	20
62	Influence of nitrogen implantation on thermoluminescence of synthetic quartz. <i>Radiation Effects and Defects in Solids</i> , 2015, 170, 18-29.	0.4	1
63	Time-resolved optically stimulated luminescence and spectral emission features of $\hat{\Gamma}$ -Al ₂ O ₃ :C. <i>Physica B: Condensed Matter</i> , 2015, 473, 62-71.	1.3	32
64	Thermoluminescence of calcium phosphate co-doped with gadolinium and praseodymium. <i>Radiation Measurements</i> , 2015, 77, 26-33.	0.7	18
65	Luminescence lifetimes in natural quartz annealed beyond its second phase inversion temperature. <i>Radiation Measurements</i> , 2015, 81, 198-204.	0.7	4
66	Influence of nitrogen implantation on thermoluminescence of synthetic quartz. <i>Radiation Effects and Defects in Solids</i> , 2014, 169, 919-930.	0.4	5
67	A method for kinetic analysis and study of thermal quenching in thermoluminescence based on use of the area under an isothermal decay-curve. <i>Journal of Luminescence</i> , 2014, 151, 235-243.	1.5	18
68	Thermal dependence of luminescence lifetimes and radioluminescence in quartz. <i>Journal of Luminescence</i> , 2014, 145, 38-48.	1.5	32
69	Spectral and kinetic analysis of thermoluminescence from manganiferous carbonatite. <i>Journal of Luminescence</i> , 2014, 145, 180-187.	1.5	25
70	On isothermal heating as a method of separating closely collocated thermoluminescence peaks for kinetic analysis. <i>Journal of Luminescence</i> , 2014, 155, 70-78.	1.5	14
71	Kinetic analysis of high temperature secondary thermoluminescence glow peaks in $\hat{\Gamma}$ -Al ₂ O ₃ :C. <i>Radiation Measurements</i> , 2014, 66, 21-30.	0.7	28
72	Kinetics and dosimetric features of secondary thermoluminescence in carbon-doped aluminium oxide. <i>Physica B: Condensed Matter</i> , 2014, 439, 165-168.	1.3	12

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73	Thermoluminescence characteristics of the main glow peak in $\hat{\text{I}}\pm\text{-Al}_2\text{O}_3\text{:C}$ exposed to low environmental-like radiation doses. <i>Journal of Luminescence</i> , 2013, 139, 143-148.	1.5	26
74	Characteristics of luminescence lifetimes in natural quartz from Brazil and South Korea. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 460-467.	0.4	0
75	Dosimetric features and kinetic analysis of thermoluminescence from ultra-high molecular weight polyethylene. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 345301.	1.3	6
76	A time-correlated photon counting system for measurement of pulsed optically stimulated luminescence. <i>Journal of Luminescence</i> , 2011, 131, 92-98.	1.5	12
77	Analytical expressions for time-resolved optically stimulated luminescence experiments in quartz. <i>Journal of Luminescence</i> , 2011, 131, 1827-1835.	1.5	17
78	Positron and luminescence lifetimes in annealed synthetic quartz. <i>Radiation Measurements</i> , 2011, 46, 310-318.	0.7	13
79	Experimental and modelling study of pulsed optically stimulated luminescence in quartz, marble and beta irradiated salt. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055407.	1.3	16
80	Luminescence lifetime components in quartz: Influence of irradiation and annealing. <i>Radiation Measurements</i> , 2009, 44, 453-457.	0.7	18
81	Principal and secondary luminescence lifetime components in annealed natural quartz. <i>Radiation Measurements</i> , 2008, 43, 1-4.	0.7	17
82	The dependence of luminescence lifetimes on additive irradiation in natural sedimentary quartz: sands from Santa Elina, Brazil. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 630-633.	0.8	4
83	Phosphorescence of orthopaedicâ€ grade ultra high molecular weight polyethylene. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 871-874.	0.8	2
84	The influence of optical bleaching on lifetimes and luminescence intensity in the slow component of optically stimulated luminescence of natural quartz from Nigeria. <i>Journal of Luminescence</i> , 2008, 128, 1561-1569.	1.5	0
85	On the dose-dependence of luminescence lifetimes in natural quartz. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 945-953.	0.4	4
86	The analysis of time-resolved optically stimulated luminescence: I. Theoretical considerations. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1874-1879.	1.3	40
87	The analysis of time-resolved optically stimulated luminescence: II. Computer simulations and experimental results. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1880-1889.	1.3	79
88	On extending the applicability of the initial rise method for thermoluminescence glow peak analysis. <i>Radiation Effects and Defects in Solids</i> , 2007, 162, 803-807.	0.4	1
89	Time resolved luminescence of quartz from Nigeria. <i>Optical Materials</i> , 2007, 29, 1844-1851.	1.7	10
90	Relative features of the principal and secondary luminescence lifetimes in quartz. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 914-917.	0.8	4

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91	Time-resolved luminescence of low sensitivity quartz from crystalline rocks. Radiation Measurements, 2007, 42, 205-212.	0.7	31
92	Accuracy of the activation energy calculated from a thermoluminescence glow-peak using a method that uses three points on the peak. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 355-361.	0.8	5
93	Anomalous behaviour of thermoluminescence from quartz: A case of glow peaks from a Nigerian quartz. Radiation Measurements, 2006, 41, 549-553.	0.7	19
94	On the correlation between annealing and variabilities in pulsed-luminescence from quartz. Radiation Measurements, 2006, 41, 862-865.	0.7	15
95	Orthopaedic grade ultra-high molecular weight polyethylene: some features of the main thermoluminescence glow curve. Radiation Protection Dosimetry, 2006, 119, 157-160.	0.4	3
96	Two-point method for kinetic analysis of a thermoluminescence glow peak. Radiation Effects and Defects in Solids, 2006, 161, 289-296.	0.4	4
97	Towards models for analysis of time-resolved luminescence spectra from quartz. Applied Radiation and Isotopes, 2005, 62, 941-942.	0.7	3
98	Time-resolved luminescence from annealed synthetic quartz under 525nm pulsed green light stimulation. Radiation Measurements, 2004, 38, 553-555.	0.7	10
99	Dependence of the thermal influence on luminescence lifetimes from quartz on the duration of optical stimulation. Radiation Measurements, 2003, 37, 167-175.	0.7	40
100	The influence of annealing and partial bleaching on luminescence lifetimes in quartz. Radiation Measurements, 2003, 37, 467-472.	0.7	19
101	Time-resolved Luminescence from Annealed Quartz. Radiation Protection Dosimetry, 2002, 100, 273-276.	0.4	9
102	Temperature dependence of luminescence lifetimes in quartz under pulsed blue light stimulation. Radiation Effects and Defects in Solids, 2001, 154, 355-359.	0.4	2
103	Some properties of luminescence lifetimes from quartz stimulated by blue light. Radiation Effects and Defects in Solids, 2001, 154, 361-365.	0.4	2
104	On the slow component of luminescence stimulated from quartz by pulsed blue light-emitting diodes. Nuclear Instruments & Methods in Physics Research B, 2001, 183, 358-368.	0.6	48
105	Temperature dependence of luminescence time-resolved spectra from quartz. Radiation Measurements, 2000, 32, 627-632.	0.7	20
106	On luminescence lifetimes in quartz. Radiation Measurements, 2000, 32, 621-626.	0.7	20
107	A pulsed light-emitting-diode system for stimulation of luminescence. Measurement Science and Technology, 2000, 11, 418-424.	1.4	67
108	Low temperature luminescence of transition metal-doped beryls. Journal of African Earth Sciences, 1995, 20, 53-60.	0.9	18