

Nagabhushana Kr

List of Publications by Year in descending order

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53
papers

680
citations

567281

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642732

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis characterization and luminescence studies of gamma irradiated nanocrystalline yttrium oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 154, 220-231.	3.9	56
2	Thermoluminescence studies in swift heavy ion irradiated aluminum oxide. <i>Radiation Measurements</i> , 2008, 43, S651-S655.	1.4	46
3	Photoluminescence and Raman studies in swift heavy ion irradiated polycrystalline aluminum oxide. <i>Bulletin of Materials Science</i> , 2009, 32, 515-519.	1.7	34
4	Synthesis characterization and luminescence studies of 100MeV Si ⁸⁺ ion irradiated sol gel derived nanocrystalline Y ₂ O ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 329, 40-47.	1.4	33
5	Spectroscopic studies of strong red emitting Sr ₂ SiO ₄ :Eu ³⁺ nanophosphors with high color purity for application in WLED using Judd-Ofelt theory and TL glow curve analysis. <i>Optical Materials</i> , 2018, 85, 363-372.	3.6	30
6	Thermoluminescence of sol-gel derived Y ₂ O ₃ :Nd ³⁺ nanophosphor exposed to 100MeV Si ⁸⁺ ions and gamma rays. <i>Journal of Alloys and Compounds</i> , 2015, 637, 564-573.	5.5	28
7	Thermoluminescence studies of ⁶⁰ Co-irradiated Al ₂ O ₃ :Ce ³⁺ phosphor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 379, 146-151.	1.4	24
8	Luminescence properties of 100MeV swift Si ⁷⁺ ions irradiated nanocrystalline zirconium oxide. <i>Journal of Alloys and Compounds</i> , 2015, 647, 921-926.	5.5	20
9	Synthesis, thermoluminescence and defect centres in Eu ³⁺ doped Y ₂ O ₃ :Ce ³⁺ nanophosphor for gamma dosimetry applications. <i>Materials Research Express</i> , 2017, 4, 115033.	1.6	20
10	Swift heavy ion induced photoluminescence studies in Aluminum oxide. <i>Radiation Effects and Defects in Solids</i> , 2007, 162, 325-332.	1.2	18
11	Ion beam induced luminescence studies of sol gel derived Y ₂ O ₃ :Dy ³⁺ nanophosphors. <i>Journal of Luminescence</i> , 2016, 169, 627-634.	3.1	18
12	AFM and photoluminescence studies of swift heavy ion induced nanostructured aluminum oxide thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1049-1054.	1.4	17
13	Evidence of luminescence modification with structure of zirconia phases. <i>Journal of Luminescence</i> , 2017, 192, 173-179.	3.1	17
14	Dosimetric properties of ZrO ₂ and ZrO ₂ :Sm ³⁺ exposed to beta rays. <i>Ceramics International</i> , 2018, 44, 18871-18877.	4.8	17
15	Luminescence studies of 100MeV Si ⁸⁺ ion irradiated nanocrystalline Y ₂ O ₃ . <i>Radiation Measurements</i> , 2014, 71, 518-523.	1.4	15
16	Enhancement in luminescence properties of ZrO ₂ :Dy ³⁺ under 100 MeV swift Ni ⁷⁺ ion irradiation. <i>RSC Advances</i> , 2016, 6, 55240-55247.	3.6	15
17	TL/OSL properties of beta irradiated Al ₂ O ₃ :Tm ³⁺ phosphor synthesized by microwave combustion method. <i>Materials Research Bulletin</i> , 2018, 104, 236-243.	5.2	15
18	Unraveling the Charge State of Oxygen Vacancies in Monoclinic ZrO ₂ and Spectroscopic Properties of ZrO ₂ :Sm ³⁺ Phosphor. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27106-27117.	3.1	15

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19	Thermoluminescence properties of gamma irradiated CaO: Sm ³⁺ phosphor. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 136-140.	1.4	14
20	Swift heavy ion induced phase transformation and thermoluminescence properties of zirconium oxide. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 131-135.	1.4	14
21	Photoluminescence, thermoluminescence glow curve and emission characteristics of Y ₂ O ₃ :Er ³⁺ nanophosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 189, 349-356.	3.9	14
22	Thermally stimulated luminescence studies in combustion synthesized polycrystalline aluminum oxide. Bulletin of Materials Science, 2008, 31, 669-672.	1.7	13
23	Luminescence studies on swift heavy ion irradiated nanocrystalline aluminum oxide. Journal of Luminescence, 2011, 131, 764-767.	3.1	13
24	Mechanism of thermoluminescence in high energy carbon ion irradiated Tb ³⁺ doped Al ₂ O ₃ phosphor for carbon ion beam dosimetry. Materials Research Express, 2017, 4, 095023.	1.6	13
25	Thermoluminescence glow curve analysis of gamma irradiated Sr ₂ SiO ₄ :Dy ³⁺ nanophosphor. Physica B: Condensed Matter, 2020, 585, 412113.	2.7	13
26	Role of Li ion on luminescence performance of yttrium oxide thin films. Dyes and Pigments, 2015, 121, 221-226.	3.7	12
27	Ion beam induced cubic to monoclinic phase transformation of nanocrystalline yttria. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 73-77.	1.4	12
28	Optical absorption and thermoluminescence studies in 100MeV swift heavy ion irradiated CaF ₂ crystals. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 185-188.	1.4	11
29	Luminescence performance of europium-doped yttrium oxide thin films. Journal of Luminescence, 2015, 157, 63-68.	3.1	10
30	Thermoluminescence properties of CaO powder obtained from chicken eggshells. Radiation Physics and Chemistry, 2017, 138, 54-59.	2.8	10
31	Effect of lithium incorporation on luminescence properties of nanostructured Y ₂ O ₃ :Sm ³⁺ thin films. Journal of Analytical and Applied Pyrolysis, 2017, 123, 229-236.	5.5	10
32	Ion beam induced modifications in electron beam evaporated aluminum oxide thin films. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1475-1479.	1.4	8
33	Thermoluminescence studies of ⁶⁰ Co-irradiated ZnO:Mg ²⁺ nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 62-68.	1.4	8
34	Comparative studies on thermoluminescence glow curves of calcium oxide nanophosphor irradiated with various ionizing radiations. Journal of Alloys and Compounds, 2018, 735, 1949-1954.	5.5	7
35	Structure and crystal field analysis using ionoluminescence of Al ₂ O ₃ :Tm ³⁺ phosphor. Journal of Luminescence, 2019, 214, 116553.	3.1	7
36	Spectroscopic studies of swift heavy ion irradiated nanophase mullite. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 31-33.	1.4	6

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37	Photoluminescence and thermoluminescence studies of 100 μ MeV Si ⁸⁺ ion irradiated Y ₂ O ₃ :Dy ³⁺ nanophosphor. Journal of Luminescence, 2019, 209, 179-187.	3.1	6
38	Charge carrier trapping processes in un-doped and BaAl ₂ O ₄ :Eu ³⁺ nanophosphor for thermoluminescent dosimeter applications. Journal Physics D: Applied Physics, 2020, 53, 475305.	2.8	6
39	Thermoluminescence studies of γ -irradiated nanocrystalline Y ₃ Al ₅ O ₁₂ . Radiation Effects and Defects in Solids, 2014, 169, 696-705.	1.2	5
40	Effect of 100 μ MeV swift Si ⁸⁺ ions on structural and thermoluminescence properties of Y ₂ O ₃ :Dy ³⁺ nanophosphor. Radiation Effects and Defects in Solids, 2016, 171, 408-420.	1.2	5
41	Effect of annealing on luminescence of ZrO ₂ irradiated with 100 μ MeV Si ⁷⁺ ions. Optical Materials, 2020, 107, 109984.	3.6	5
42	Down and upconversion photoluminescence of ZrO ₂ :Er ³⁺ phosphor irradiated with 120 MeV gold ions. Materials Research Express, 2020, 7, 064006.	1.6	4
43	Fabrication of spectroscopic characterization techniques using an optical fiber-based spectrometer. Review of Scientific Instruments, 2021, 92, 093104.	1.3	4
44	SHI Induced Thermoluminescence Properties Of Sol-gel Derived Y ₂ O ₃ :Er ³⁺ Nanophosphor. Advanced Materials Letters, 2015, 6, 342-347.	0.6	4
45	TL/OSL properties of beta irradiated Al ₂ O ₃ Nanophosphor synthesized by microwave combustion method. AIP Conference Proceedings, 2017, , .	0.4	2
46	100 μ MeV swift Si ⁷⁺ ion induced thermoluminescence studies of nanocrystalline erbium doped ZrO ₂ . AIP Conference Proceedings, 2015, , .	0.4	1
47	TL and OSL properties of beta irradiated Y ₂ O ₃ nanocrystal. AIP Conference Proceedings, 2017, , .	0.4	1
48	Correlation between thermoluminescence glow curve and emission spectra of gamma ray irradiated LaAlO ₃ . AIP Conference Proceedings, 2018, , .	0.4	1
49	Thermoluminescence properties of 100 μ MeV Si ⁷⁺ ion-irradiated Al ₂ O ₃ . Radiation Effects and Defects in Solids, 2018, 173, 504-509.	1.2	1
50	Influence of lithium on structure and optical properties of lanthanum doped yttrium oxide thin films. Inorganic Chemistry Communication, 2020, 119, 108098.	3.9	1
51	Impact of Na ₂ -EDTA and urea on structure and optical properties of pure neodymium oxide. Vacuum, 2020, 177, 109411.	3.5	1
52	Investigation on luminescence properties of nanocrystalline calcium oxide exposed to beta rays. AIP Conference Proceedings, 2017, , .	0.4	0
53	Incitement of sodium ions on structural and optical properties of dysprosium doped neodymium oxide. Journal of Molecular Liquids, 2020, 314, 113647.	4.9	0