

Valery Chernov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Persistent luminescence dosimetric properties of UV-irradiated SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphor. Journal of Luminescence, 2008, 128, 173-184.	1.5	41
2	Thermoluminescence properties of ZnO and ZnO:Yb nanophosphors. Applied Physics Letters, 2006, 89, 183118.	1.5	36
3	Thermoluminescence and infrared stimulated luminescence in long persistent monoclinic SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ and SrAl ₂ O ₄ :Eu ²⁺ ,Nd ³⁺ phosphors. Optical Materials, 2019, 92, 46-52.	1.7	33
4	Gamma radiation effects on commercial Mexican bread making wheat flour. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 455-458.	0.6	27
5	The behavior of thermally and optically stimulated luminescence of long persistent phosphor after blue light illumination. Radiation Measurements, 2008, 43, 241-244.	0.7	25
6	Beta radiation induced thermoluminescence in pure ZrO ₂ prepared by sol-gel. Journal of Non-Crystalline Solids, 2006, 352, 2543-2547.	1.5	23
7	Study of Interlayer Spacing Collapse During Polymer/Clay Nanocomposite Melt Intercalation. Journal of Nanoscience and Nanotechnology, 2008, 8, 1707-1713.	0.9	21
8	Photoluminescence, afterglow and thermoluminescence in irradiated with blue and UV light. Radiation Measurements, 2007, 42, 668-671.	0.7	20
9	¹³ B radiation thermoluminescence performance of HFCVD diamond films. Nuclear Instruments & Methods in Physics Research B, 2006, 248, 103-108.	0.6	18
10	Thermally and optically stimulated luminescence in long persistent orthorhombic strontium aluminates doped with Eu, Dy and Eu, Nd. Optical Materials, 2017, 67, 91-97.	1.7	17
11	Thermally and optically stimulated luminescence correlated processes in X-ray irradiated KCl:Eu ²⁺ . Radiation Measurements, 2001, 33, 797-800.	0.7	16
12	Thermally and optically stimulated luminescence of new ZnO nanophosphors exposed to beta particle irradiation. Radiation Effects and Defects in Solids, 2007, 162, 737-743.	0.4	16
13	Dosimetry properties of Tm-doped single CaF ₂ crystals. Radiation Measurements, 2001, 33, 571-576.	0.7	14
14	Optical absorption and thermoluminescence in single NaCl:Cu crystals exposed to ⁶⁰ Co and UV light. Radiation Protection Dosimetry, 2006, 119, 102-105.	0.4	14
15	Persistent luminescence, TL and OSL characterization of beta irradiated SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ combustion synthesized phosphor. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 99-102.	0.6	14
16	Afterglow, thermoluminescence and optically stimulated luminescence characterization of micro-, nano- and ultrananocrystalline diamond films grown on silicon by HFCVD. Diamond and Related Materials, 2018, 85, 117-124.	1.8	13
17	Thermoluminescence assessment of 0.5, 1.0 and 4.0 μm thick HFCVD undoped diamond films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2103-2108.	0.8	12
18	Thermoluminescence characterization of CVD diamond film exposed to UV and beta radiation. Physica Status Solidi A, 2003, 199, 125-130.	1.7	11

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19	Thermoluminescence properties of undoped and nitrogen-doped CVD diamond exposed to gamma radiation. <i>Radiation Measurements</i> , 2008, 43, 379-382.	0.7	11
20	Thermoluminescence characterization of a MWCVD diamond film exposed to $\hat{1}^2$ -rays and UV radiation. <i>Physica Status Solidi A</i> , 2005, 202, 2206-2211.	1.7	10
21	Effect of thermal treatment on luminescence properties of long persistent CaAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ synthesized by combustion method. <i>Optical Materials</i> , 2020, 101, 109763.	1.7	10
22	The abilities of LiF thermoluminescent detectors for dosimetry at boron neutron capture therapy beams. <i>Radiation Measurements</i> , 1998, 29, 373-377.	0.7	9
23	Optically stimulated luminescence dosimetry on CVD diamond films. <i>Physica Status Solidi A</i> , 2004, 201, 2548-2552.	1.7	9
24	TL, OSL, Raman spectroscopy and SEM characterization of boron doped diamond films. <i>Physica Status Solidi A</i> , 2005, 202, 2154-2159.	1.7	9
25	Linear-supralinear-sublinear beta-ray dose dependences of TL, OSL and afterglow in undoped CVD diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2125-2130.	0.8	9
26	Photo- and thermally stimulated luminescence of polyminerals extracted from herbs and spices. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1227-1231.	1.4	9
27	Dose rate effects on the thermoluminescence properties of MWCVD diamond films. <i>Radiation Effects and Defects in Solids</i> , 2007, 162, 587-595.	0.4	8
28	Application of a Thermoluminescence Method for Detection of Irradiated Spices. <i>Radiation Protection Dosimetry</i> , 2002, 101, 137-140.	0.4	7
29	TL, OSL, and phototransferred TL in beta-irradiated anion-defective Al ₂ O ₃ . <i>Radiation Measurements</i> , 2004, 38, 685-688.	0.7	7
30	Thermal annealing effects on the TL response of beta-irradiated HPHT Ib type synthetic diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3041-3046.	0.8	7
31	Afterglow and thermally stimulated luminescence induced by UV radiation in CVD diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3047-3052.	0.8	7
32	Comparative investigations of TL and OSL in KCl:Eu ²⁺ crystals irradiated with UV and X-rays. <i>Radiation Effects and Defects in Solids</i> , 2001, 154, 319-324.	0.4	6
33	OSL and TL dosimeter characterization of boron doped CVD diamond films. <i>Optical Materials</i> , 2005, 27, 1231-1234.	1.7	6
34	Thermoluminescence kinetics parameters of ZnO exposed to beta particle irradiation. <i>Journal of Materials Science</i> , 2017, 52, 5208-5215.	1.7	6
35	Dosimetric Characteristics of Gamma-Neutron Detectors DTGN-2. <i>Radiation Protection Dosimetry</i> , 1990, 33, 159-162.	0.4	5
36	On the use of MWCVD diamond as thermoluminescent gamma dosimeter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 592-598.	0.6	5

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37	Dose rate effects on the thermoluminescence kinetics properties of MWCVD diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3053-3058.	0.8	5
38	Thermoluminescence and Optically Stimulated Luminescence Properties of TiO_2/Yb Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1851-1857.	0.9	5
39	Afterglow and thermoluminescence properties in HPHT diamond crystals under beta irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2088-2094.	0.8	5
40	Optical properties and functional groups characterization of commercial HPHT micro-diamond samples. <i>Optical Materials</i> , 2022, 131, 112592.	1.7	5
41	Optical and thermoluminescence properties of LiF:Cu, LiF:Mg,Cu and LiF:Mg,Cu,P single crystals. <i>Radiation Measurements</i> , 1998, 29, 365-372.	0.7	4
42	Thermoluminescence Dosimetry of Radon by the Two Peaks Method. <i>Radiation Protection Dosimetry</i> , 1999, 85, 329-332.	0.4	4
43	Thermoluminescence in CVD Diamond Films: Application to Actinometric Dosimetry. <i>Radiation Protection Dosimetry</i> , 2002, 100, 443-446.	0.4	4
44	Dose rate effect on the yield of radiation induced response with thermal fading. <i>Radiation Measurements</i> , 2005, 39, 329-335.	0.7	4
45	Afterglow, TL and IRSL in beta-irradiated HPHT type Ib synthetic diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3167-3172.	0.8	4
46	All optical read-out radiation dosimeter using CVD synthetic diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3173-3178.	0.8	4
47	Dose rate effects on the thermoluminescence properties of HFCVD diamonds. <i>Diamond and Related Materials</i> , 2008, 17, 1283-1287.	1.8	4
48	Dose rate effects on the performance of MWCVD diamond films as TL gamma radiation dosimeter. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1944-1948.	0.8	4
49	AG, TL, and IRSL dosimetric properties in X-ray irradiated HPHT diamond crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2359-2362.	0.8	4
50	Improved Method of Study on the Photothermal Effect of Plasmonic Nanoparticles by Dynamic IR Thermography. <i>Plasmonics</i> , 2019, 14, 935-944.	1.8	4
51	Error Analysis of Neutron Dose Measurement in Mixed Gamma-Neutron Fields by a Two Peak TL Method. <i>Radiation Protection Dosimetry</i> , 1993, 49, 443-449.	0.4	3
52	Dose dependences of creation of magnesium centres in LiF: Mg crystals under thermal neutrons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 95, 505-508.	0.6	3
53	Photoluminescence and thermal stability of 5.5 eV and Ti centres in gamma irradiated LiF:Mg,Ti crystals. <i>Radiation Measurements</i> , 2001, 33, 793-796.	0.7	3
54	Ultraviolet Thermoluminescent Dosimetry using High Temperature Peaks in KCl:Eu ²⁺ Crystals. <i>Radiation Protection Dosimetry</i> , 2002, 100, 425-427.	0.4	3

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55	Thermoluminescence Properties of KCl1-XKBrX:Pb2+ Mixed Crystals. Radiation Protection Dosimetry, 2002, 100, 455-457.	0.4	3
56	Performance of CVD diamond as an optically and thermally stimulated luminescence dosemeter. Radiation Protection Dosimetry, 2006, 119, 226-229.	0.4	3
57	Gammaâ€radiation effects on NaCl:Cu crystals. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1425-1428.	0.8	3
58	Comparative study of TL created in undoped CVD diamond by <i>Î²</i> rays, UV and visible light. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2119-2124.	0.8	3
59	Thermoluminescence studies on HPHT diamond crystals exposed to Î²â€irradiation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2507-2511.	0.8	3
60	3D Dynamic Thermography System for Biomedical Applications. Series in Bioengineering, 2017, , 517-545.	0.3	3
61	Xâ€Ray Thermoluminescence Dosimetry Characterization of Commercially Available CVD Diamond. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800246.	0.8	3
62	Quantification of the radiosensitization effect of high-Z nanoparticles on photon irradiated cells: combining Monte Carlo simulations and an analytical approach to the local effect model. Physics in Medicine and Biology, 2021, 66, .	1.6	3
63	Mechanism of Storage of Ionising Radiation Energy in LiF:Mg, Ti Crystals. Radiation Protection Dosimetry, 1990, 33, 15-18.	0.4	3
64	Modified Track Structure Calculation of Thermoluminescent Yields to Heavy Charged Particles. Radiation Protection Dosimetry, 1990, 33, 51-54.	0.4	2
65	Response Characteristics of LiF:Mg,Cu,P TL Detectors in Boron Neutron Capture Therapy Dosimetry. Radiation Protection Dosimetry, 1999, 85, 373-375.	0.4	2
66	Temperature Variation of the Shape of the F Band in Undoped LiF. Radiation Protection Dosimetry, 2002, 100, 175-178.	0.4	2
67	Study of the Phototransferred Thermoluminescence in KCl:Eu2+ Phosphors. Radiation Protection Dosimetry, 2002, 100, 183-185.	0.4	2
68	Behaviour of FandFzCentres Under Thermal Stimulation in KCl:Eu2â€Zirradiated with Ionizing and UV Radiation. Radiation Effects and Defects in Solids, 2003, 158, 269-274.	0.4	2
69	F-center effects in the luminescent properties of KCl1-xBrxwith divalent lead impurity. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 568-571.	0.8	2
70	Thermoluminescence behaviour of KCl1â€xBrx:Pb2+ exposed to gamma radiation. Radiation Protection Dosimetry, 2006, 119, 280-284.	0.4	2
71	Multilayer optical disk and method of its management for preventing its illegal use. , 2007, , .		2
72	Correlation between thermally and optically stimulated luminescence in betaâ€irradiated undoped CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2098-2102.	0.8	2

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73	A novel fitting method for evaluating the thermal quenching parameters of TL with an application to undoped CVD diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1779-1785.	0.8	2
74	Optical elements containing semitransparent wavelike films. <i>Applied Optics</i> , 2017, 56, 6146.	0.9	2
75	Raman and Thermoluminescence Studies of HPHT Synthetic Nanodiamond Powders. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800267.	0.8	2
76	Thermoluminescence response of detonation diamond microparticles exposed to beta and alpha radiation. <i>Diamond and Related Materials</i> , 2020, 106, 107823.	1.8	2
77	Effect of position of fermi level on solubility of donor impurities in InAs. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1981, 24, 506-510.	0.0	1
78	Stabilization of H centres in irradiated LiF:Mg crystals. <i>Radiation Effects and Defects in Solids</i> , 1995, 134, 493-497.	0.4	1
79	Microdosimetric Approach to Calculation of Dose Dependences of Radiation Induced Effects Under Heavy Charged Particles. <i>Radiation Protection Dosimetry</i> , 1996, 65, 45-48.	0.4	1
80	Simultaneous thermoluminescence and optically stimulated luminescence dating of late Pleistocene sediments from Lake Baikal. <i>Radiation Measurements</i> , 1998, 29, 441-444.	0.7	1
81	Defects generated by irradiation with gamma rays in lead doped KCl:KBr mixed single crystals. <i>Radiation Measurements</i> , 2004, 38, 695-698.	0.7	1
82	Dose dependences of radiation induced yield in mixed radiation fields. <i>Radiation Protection Dosimetry</i> , 2006, 119, 80-84.	0.4	1
83	Heating rate effects on the TL characteristics of hot filament CVD diamond film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2114-2118.	0.8	1
84	See-through reflective optical elements with embedded wavelike films.. <i>Journal of Radio Electronics</i> , 0, , .	0.0	1
85	Interaction between Cd and Te in InAs. <i>Soviet Physics Journal (English Translation of Izvestiia)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.0	0
86	Influence of electron-hole and donor-acceptor interactions on the distribution coefficients of impurities in multiply doped semiconductors. <i>Soviet Physics Journal (English Translation of Izvestiia)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.0	0
87	Prospects for a selective thermoluminescence gamma/neutron dosimeter. <i>Soviet Atomic Energy</i> , 1989, 67, 912-916.	0.1	0
88	UNIC-02 universal complex for thermoluminescent measurement. <i>Nuclear Tracks and Radiation Measurements (1993)</i> , 1993, 21, 81-83.	0.1	0
89	Thermal desensitization of gamma irradiated LiF:Mg,Ti. <i>Nuclear Tracks and Radiation Measurements (1993)</i> , 1993, 21, 159-161.	0.1	0
90	Some Features of IRSL in Microcline from the Baikal Region. <i>Radiation Protection Dosimetry</i> , 1999, 84, 461-465.	0.4	0

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91	Photo-, Thermo- and Optically Stimulated Emission Spectra in KCl:Eu ²⁺ . Physica Status Solidi A, 2001, 187, 535-542.	1.7	0
92	PHOTOTRANSFERRED THERMOLUMINESCENCE OF KCL:Eu ²⁺ DOSEMETERS. , 2001, , .		0
93	Optical absorption, TL and IRSL of basic plagioclase megacrysts from the pinacate (Sonora, Mexico) quaternary alkalic volcanics. Radiation Protection Dosimetry, 2006, 119, 233-237.	0.4	0
94	CVD Diamond Applications as TL Radiation Dosimeters. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	0
95	Effect of using type A radiation for dose reconstruction in type B irradiated material: A microdosimetry approach. Radiation Measurements, 2008, 43, 805-808.	0.7	0
96	Dosimetric Assessment of Mono-Crystalline CVD Diamonds Exposed to Beta and Ultraviolet Radiation. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0
97	Analytical approximation of the nanoscale dose distribution in an irradiated medium with an embedded nanoparticle. Journal of Physics: Conference Series, 2012, 393, 012035.	0.3	0