

Valery Chernov

List of Publications by Year in descending order

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98
docs citations

98
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties and functional groups characterization of commercial HPHT micro-diamond samples. <i>Optical Materials</i> , 2022, 131, 112592.	1.7	5
2	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. <i>Physics in Medicine and Biology</i> , 2021, 66, .	1.6	3
3	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
4	Thermoluminescence response of detonation diamond microparticles exposed to beta and alpha radiation. <i>Diamond and Related Materials</i> , 2020, 106, 107823.	1.8	2
5	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. <i>Optical Materials</i> , 2019, 92, 46-52.	1.7	33
6	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
7	Afterglow, thermoluminescence and optically stimulated luminescence characterization of micro-, nano- and ultrananocrystalline diamond films grown on silicon by HFCVD. <i>Diamond and Related Materials</i> , 2018, 85, 117-124.	1.8	13
8	X-ray Thermoluminescence Dosimetry Characterization of Commercially Available CVD Diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800246.	0.8	3
9	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
10	Thermoluminescence kinetics parameters of ZnO exposed to beta particle irradiation. <i>Journal of Materials Science</i> , 2017, 52, 5208-5215.	1.7	6
11	3D Dynamic Thermography System for Biomedical Applications. <i>Series in Bioengineering</i> , 2017, , 517-545.	0.3	3
12	Thermally and optically stimulated luminescence in long persistent orthorhombic strontium aluminates doped with Eu, Dy and Eu, Nd. <i>Optical Materials</i> , 2017, 67, 91-97.	1.7	17
13	Optical elements containing semitransparent wavelike films. <i>Applied Optics</i> , 2017, 56, 6146.	0.9	2
14	Thermoluminescence studies on HPHT diamond crystals exposed to ¹³⁷ Cs irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2507-2511.	0.8	3
15	Persistent luminescence, TL and OSL characterization of beta irradiated SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ combustion synthesized phosphor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 326, 99-102.	0.6	14
16	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
17	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
18	Analytical approximation of the nanoscale dose distribution in an irradiated medium with an embedded nanoparticle. <i>Journal of Physics: Conference Series</i> , 2012, 393, 012035.	0.3	0

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19	Photo- and thermally stimulated luminescence of polyminerals extracted from herbs and spices. Radiation Physics and Chemistry, 2012, 81, 1227-1231.	1.4	9
20	A novel fitting method for evaluating the thermal quenching parameters of TL with an application to undoped CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1779-1785.	0.8	2
21	Dose rate effects on the performance of MWCVD diamond films as TL gamma radiation dosimeter. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1944-1948.	0.8	4
22	Heating rate effects on the TL characteristics of hot filament CVD diamond film. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2114-2118.	0.8	1
23	Comparative study of TL created in undoped CVD diamond by γ rays, UV and visible light. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2119-2124.	0.8	3
24	Linear-supralinear-sublinear beta-ray dose dependences of TL, OSL and afterglow in undoped CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2125-2130.	0.8	9
25	Dosimetric Assessment of Mono-Crystalline CVD Diamonds Exposed to Beta and Ultraviolet Radiation. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0
26	Gamma radiation effects on NaCl:Cu crystals. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1425-1428.	0.8	3
27	Correlation between thermally and optically stimulated luminescence in beta irradiated undoped CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2098-2102.	0.8	2
28	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
29	Thermoluminescence and Optically Stimulated Luminescence Properties of γ -Irradiated TiO ₂ /Yb Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 1851-1857.	0.9	5
30	Thermoluminescence properties of undoped and nitrogen-doped CVD diamond exposed to gamma radiation. Radiation Measurements, 2008, 43, 379-382.	0.7	11
31	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
32	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
33	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
34	Dose rate effects on the thermoluminescence properties of HFCVD diamonds. Diamond and Related Materials, 2008, 17, 1283-1287.	1.8	4
35	Study of Interlayer Spacing Collapse During Polymer/Clay Nanocomposite Melt Intercalation. Journal of Nanoscience and Nanotechnology, 2008, 8, 1707-1713.	0.9	21
36	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

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37	CVD Diamond Applications as TL Radiation Dosimeters. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	0
38	Multilayer optical disk and method of its management for preventing its illegal use. , 2007, , .		2
39	Dose rate effects on the thermoluminescence properties of MWCVD diamond films. Radiation Effects and Defects in Solids, 2007, 162, 587-595.	0.4	8
40	On the use of MWCVD diamond as thermoluminescent gamma dosimeter. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 592-598.	0.6	5
41	Photoluminescence, afterglow and thermoluminescence in irradiated with blue and UV light. Radiation Measurements, 2007, 42, 668-671.	0.7	20
42	Dose rate effects on the thermoluminescence kinetics properties of MWCVD diamond films. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3053-3058.	0.8	5
43	Thermal annealing effects on the TL response of beta-irradiated HPHT Ib type synthetic diamond. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3041-3046.	0.8	7
44	Afterglow and thermally stimulated luminescence induced by UV radiation in CVD diamond. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3047-3052.	0.8	7
45	Thermoluminescence properties of ZnO and ZnO:Yb nanophosphors. Applied Physics Letters, 2006, 89, 183118.	1.5	36
46	Beta radiation induced thermoluminescence in pure ZrO ₂ prepared by sol-gel. Journal of Non-Crystalline Solids, 2006, 352, 2543-2547.	1.5	23
47	Afterglow, TL and IRSL in beta-irradiated HPHT type Ib synthetic diamond. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3167-3172.	0.8	4
48	All optical read-out radiation dosimeter using CVD synthetic diamond. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3173-3178.	0.8	4
49	Gamma radiation effects on commercial Mexican bread making wheat flour. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 455-458.	0.6	27
50	¹³⁷ I radiation thermoluminescence performance of HFCVD diamond films. Nuclear Instruments & Methods in Physics Research B, 2006, 248, 103-108.	0.6	18
51	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
52	Performance of CVD diamond as an optically and thermally stimulated luminescence dosemeter. Radiation Protection Dosimetry, 2006, 119, 226-229.	0.4	3
53	Dose dependences of radiation induced yield in mixed radiation fields. Radiation Protection Dosimetry, 2006, 119, 80-84.	0.4	1
54	Thermoluminescence behaviour of KCl:Br:Pb ²⁺ exposed to gamma radiation. Radiation Protection Dosimetry, 2006, 119, 280-284.	0.4	2

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55	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
56	Dose rate effect on the yield of radiation induced response with thermal fading. Radiation Measurements, 2005, 39, 329-335.	0.7	4
57	OSL and TL dosimeter characterization of boron doped CVD diamond films. Optical Materials, 2005, 27, 1231-1234.	1.7	6
58	F-center effects in the luminescent properties of KCl:Br with divalent lead impurity. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 568-571.	0.8	2
59	Thermoluminescence characterization of a MWCVD diamond film exposed to ¹³⁷ Cs-rays and UV radiation. Physica Status Solidi A, 2005, 202, 2206-2211.	1.7	10
60	TL, OSL, Raman spectroscopy and SEM characterization of boron doped diamond films. Physica Status Solidi A, 2005, 202, 2154-2159.	1.7	9
61	Defects generated by irradiation with gamma rays in lead doped KCl:KBr mixed single crystals. Radiation Measurements, 2004, 38, 695-698.	0.7	1
62	Optically stimulated luminescence dosimetry on CVD diamond films. Physica Status Solidi A, 2004, 201, 2548-2552.	1.7	9
63	TL, OSL, and phototransferred TL in beta-irradiated anion-defective Al ₂ O ₃ . Radiation Measurements, 2004, 38, 685-688.	0.7	7
64	Thermoluminescence characterization of CVD diamond film exposed to UV and beta radiation. Physica Status Solidi A, 2003, 199, 125-130.	1.7	11
65	Behaviour of F and F ₂ Centres Under Thermal Stimulation in KCl:Eu ²⁺ Irradiated with Ionizing and UV Radiation. Radiation Effects and Defects in Solids, 2003, 158, 269-274.	0.4	2
66	Ultraviolet Thermoluminescent Dosimetry using High Temperature Peaks in KCl:Eu ²⁺ Crystals. Radiation Protection Dosimetry, 2002, 100, 425-427.	0.4	3
67	Thermoluminescence in CVD Diamond Films: Application to Actinometric Dosimetry. Radiation Protection Dosimetry, 2002, 100, 443-446.	0.4	4
68	Thermoluminescence Properties of KCl:KBrX:Pb ²⁺ Mixed Crystals. Radiation Protection Dosimetry, 2002, 100, 455-457.	0.4	3
69	Application of a Thermoluminescence Method for Detection of Irradiated Spices. Radiation Protection Dosimetry, 2002, 101, 137-140.	0.4	7
70	Temperature Variation of the Shape of the F Band in Undoped LiF. Radiation Protection Dosimetry, 2002, 100, 175-178.	0.4	2
71	Study of the Phototransferred Thermoluminescence in KCl:Eu ²⁺ Phosphors. Radiation Protection Dosimetry, 2002, 100, 183-185.	0.4	2
72	Comparative investigations of TL and OSL in KCl:Eu ²⁺ crystals irradiated with UV and X-rays. Radiation Effects and Defects in Solids, 2001, 154, 319-324.	0.4	6

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73	Dosimetry properties of Tm-doped single CaF ₂ crystals. Radiation Measurements, 2001, 33, 571-576.	0.7	14
74	Photoluminescence and thermal stability of 5.5 eV and Ti centres in gamma irradiated LiF:Mg,Ti crystals. Radiation Measurements, 2001, 33, 793-796.	0.7	3
75	Thermally and optically stimulated luminescence correlated processes in X-ray irradiated KCl:Eu ²⁺ . Radiation Measurements, 2001, 33, 797-800.	0.7	16
76	Photo-, Thermo- and Optically Stimulated Emission Spectra in KCl:Eu ²⁺ . Physica Status Solidi A, 2001, 187, 535-542.	1.7	0
77	PHOTOTRANSFERRED THERMOLUMINESCENCE OF KCL:Eu ²⁺ DOSEMETERS. , 2001, , .		0
78	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
79	Some Features of IRSL in Microcline from the Baikal Region. Radiation Protection Dosimetry, 1999, 84, 461-465.	0.4	0
80	Thermoluminescence Dosimetry of Radon by the Two Peaks Method. Radiation Protection Dosimetry, 1999, 85, 329-332.	0.4	4
81	The abilities of LiF thermoluminescent detectors for dosimetry at boron neutron capture therapy beams. Radiation Measurements, 1998, 29, 373-377.	0.7	9
82	Simultaneous thermoluminescence and optically stimulated luminescence dating of late Pleistocene sediments from Lake Baikal. Radiation Measurements, 1998, 29, 441-444.	0.7	1
83	Optical and thermoluminescence properties of LiF:Cu, LiF:Mg,Cu and LiF:Mg,Cu,P single crystals. Radiation Measurements, 1998, 29, 365-372.	0.7	4
84	Microdosimetric Approach to Calculation of Dose Dependences of Radiation Induced Effects Under Heavy Charged Particles. Radiation Protection Dosimetry, 1996, 65, 45-48.	0.4	1
85	Dose dependences of creation of magnesium centres in LiF: Mg crystals under thermal neutrons. Nuclear Instruments & Methods in Physics Research B, 1995, 95, 505-508.	0.6	3
86	Stabilization of H centres in irradiated LiF:Mg crystals. Radiation Effects and Defects in Solids, 1995, 134, 493-497.	0.4	1
87	UNIC-02 universal complex for thermoluminescent measurement. Nuclear Tracks and Radiation Measurements (1993), 1993, 21, 81-83.	0.1	0
88	Thermal desensitization of gamma irradiated LiF:Mg,Ti. Nuclear Tracks and Radiation Measurements (1993), 1993, 21, 159-161.	0.1	0
89	Error Analysis of Neutron Dose Measurement in Mixed Gamma-Neutron Fields by a Two Peak TL Method. Radiation Protection Dosimetry, 1993, 49, 443-449.	0.4	3
90	Dosimetric Characteristics of Gamma-Neutron Detectors DTGN-2. Radiation Protection Dosimetry, 1990, 33, 159-162.	0.4	5

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91	Modified Track Structure Calculation of Thermoluminescent Yields to Heavy Charged Particles. Radiation Protection Dosimetry, 1990, 33, 51-54.	0.4	2
92	Mechanism of Storage of Ionising Radiation Energy in LiF:Mg, Ti Crystals. Radiation Protection Dosimetry, 1990, 33, 15-18.	0.4	3
93	Prospects for a selective thermoluminescence gamma/neutron dosimeter. Soviet Atomic Energy, 1989, 67, 912-916.	0.1	0
94	Effect of position of fermi level on solubility of donor impurities in InAs. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1981, 24, 506-510.	0.0	1
95	Influence of electron-hole and donor-acceptor interactions on the distribution coefficients of impurities in multiply doped semiconductors. Soviet Physics Journal (English Translation of Izvestiia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 542	0.0	0
96	Interaction between Cd and Te in InAs. Soviet Physics Journal (English Translation of Izvestiia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.0	0
97	See-through reflective optical elements with embedded wavelike films.. Journal of Radio Electronics, 0, , .	0.0	1