Ilya A Weinstein

List of Publications by Year
in descending order

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107	1,492	471509	361022
papers	citations	17	35
		h-index	g-index

108	108	108	1381
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. Science, 2013, 342, 1069-1073.	12.6	487
2	Effects of structural disorder and Urbach's rule in binary lead silicate glasses. Journal of Non-Crystalline Solids, 2001, 279, 77-87.	3.1	65
3	Applicability of the empirical Varshni relation for the temperature dependence of the width of the band gap. Physics of the Solid State, 1999, 41, 905-908.	0.6	63
4	Nonstoichiometric titanium dioxide nanotubes with enhanced catalytical activity under visible light. Scientific Reports, 2018, 8, 9607.	3.3	50
5	Thermoluminescence kinetics of oxygen-related centers in AlN single crystals. Diamond and Related Materials, 2012, 25, 59-62.	3.9	43
6	Electron-phonon interactions in subband excited photoluminescence of hexagonal boron nitride. Journal of Luminescence, 2019, 208, 363-370.	3.1	36
7	Spectral, electrical, magnetic and radiation shielding studies of Mg-doped Niâ€“Cuâ€“Zn nanoferrites. Journal of Materials Science: Materials in Electronics, 2020, 31, 20210-20222.	2.2	33
8	Influence of calcination on photocatalytic properties of nonstoichiometric titanium dioxide nanotubes. Journal of Alloys and Compounds, 2019, 796, 293-299.	5.5	31
9	Memristive effect in a nanotubular layer of anodized titanium dioxide. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 932-935.	0.6	25
10	Afterglow in bulk AlN single crystals under Î²-irradiation. Journal of Luminescence, 2012, 132, 2109-2113.	3.1	22
11	Thermal quenching of luminescence in nanostructured monoclinic zirconium dioxide. Radiation Measurements, 2017, 106, 155-160.	1.4	21
12	Titanium dioxide nanotubes: synthesis, structure, properties and applications. Russian Chemical Reviews, 2021, 90, 1397-1414.	6.5	21
13	Synthesis, Electric and Magnetic Characterization of Nickel Ferrite/PANI Nano-Composite Prepared by Flash Auto Combustion Method. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 731-740.	3.7	20
14	The Urbach rule for the PbO-SiO2 glasses. Physics of the Solid State, 2000, 42, 230-235.	0.6	19
15	A high-temperature accessory for measurements of the spectral characteristics of thermoluminescence. Instruments and Experimental Techniques, 2014, 57, 369-373.	0.5	18
16	Spectrally resolved thermoluminescence measurements in fluorescence spectrometer. Measurement: Journal of the International Measurement Confederation, 2015, 66, 90-94.	5.0	18
17	Synthesis and optical properties of nanostructured ZnS and heteronanostructures based on zinc and silver sulfides. Journal of Alloys and Compounds, 2020, 831, 154846.	5.5	17
18	High Photocatalytic Activity Under Visible Light of Sandwich Structures Based on Anodic TiO2/CdS Nanoparticles/Solâ€“Gel TiO2. Topics in Catalysis, 2020, 63, 130-138.	2.8	17

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19	Modified Urbach's rule and frozen phonons in glasses. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2916-2919.	0.8	16
20	Spectral and kinetic features of thermoluminescence in hexagonal boron nitride powder after UV-irradiation. Radiation Measurements, 2013, 56, 236-239.	1.4	16
21	Temperature-induced shift of the exciton absorption band in InP/ZnS quantum dots. Optical Materials Express, 2017, 7, 354.	3.0	16
22	The Effect of Thermally Stimulated Photoconversion of Oxygen Centres on the Sensitivity of TLD-500 Dosimetric Crystals. Radiation Protection Dosimetry, 2002, 100, 159-162.	0.8	13
23	Fuzzy Logic Module of Convolutional Neural Network for Handwritten Digits Recognition. Journal of Physics: Conference Series, 2016, 738, 012123.	0.4	13
24	The phonon-assisted shift of the energy levels of localized electron states in statically disordered solids. Physica B: Condensed Matter, 1999, 263-264, 167-169.	2.7	12
25	Inhomogeneous Broadening of the Exciton Band in Optical Absorption Spectra of InP/ZnS Nanocrystals. Nanomaterials, 2019, 9, 716.	4.1	12
26	Thermally stimulated processes in the luminescence of carbon-related defects for h-BN micropowder. Radiation Measurements, 2019, 124, 35-39.	1.4	12
27	Ferroelectric and Dielectric Properties of Strontium Titanate Doped with Barium. Magnetism, 2021, 1, 22-36.	1.5	12
28	Luminescence parameters of InP/ZnS@AAO nanostructures. AIP Conference Proceedings, 2016, , .	0.4	11
29	Temperature behavior of the 6.05-eV band in optical absorption spectra of oxygen-deficient corundum. Physics of the Solid State, 2000, 42, 1259-1265.	0.6	10
30	Optical properties of InP/ZnS quantum dots deposited into nanoporous anodic alumina. Journal of Physics: Conference Series, 2016, 741, 012151.	0.4	10
31	Luminescence characteristics of nanoporous anodic alumina annealed at different temperatures. AIP Conference Proceedings, 2016, , .	0.4	10
32	Quasi-dynamic structural disorder induced by fast neutrons in Be3Al2Si6O18 crystals. Physics of the Solid State, 2001, 43, 246-250.	0.6	9
33	Evolutionary approach in the simulation of thermoluminescence kinetics. Radiation Measurements, 2007, 42, 735-738.	1.4	9
34	Synthesis of Composite Based on Carbon Nanotubes and Anodic Titania. Advanced Science Letters, 2016, 22, 688-690.	0.2	9
35	Two-level quenching of photoluminescence in hexagonal boron nitride micropowder. AIP Conference Proceedings, 2016, , .	0.4	9
36	Temperature dependence of the optical absorption spectra of InP/ZnS quantum dots. Technical Physics Letters, 2017, 43, 297-300.	0.7	9

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37	Constructing g-C3N4/Cd1â^'xZnxS-Based Heterostructures for Efficient Hydrogen Production under Visible Light. Catalysts, 2021, 11, 1340.	3.5	9
38	Genetic search for model parameters in fitting thermoluminescence curves. Technical Physics Letters, 2006, 32, 534-537.	0.7	8
39	Thermal quenching of 3.0-eV photoluminescence in Î±-Al2O3 single crystals. Technical Physics Letters, 2006, 32, 58-60.	0.7	8
40	Kinetic features of optically stimulated luminescence in aluminum nitride powder. Technical Physics Letters, 2012, 38, 160-163.	0.7	8
41	Estimation of thermoluminescence kinetic parameters in h-BN by different techniques. Radiation Measurements, 2017, 106, 55-60.	1.4	8
42	Effect of temperature on the spectral properties of InP/ZnS nanocrystals. Journal of Physics: Conference Series, 2018, 961, 012003.	0.4	8
43	Temperature effects in 3.9â€¯eV photoluminescence of hexagonal boron nitride under band-to-band and subband excitation within 7â€“1100â€¯K range. Journal of Luminescence, 2021, 230, 117623.	3.1	8
44	Quantum conductors formation and resistive switching memory effects in zirconia nanotubes. Nanotechnology, 2022, 33, 075208.	2.6	8
45	F- â‡'F+-CENTERS transformations in mechanisms of sensitization of TLD-500. Radiation Measurements, 2004, 38, 421-425.	1.4	7
46	The compensation effect during luminescence of anion centers in aluminum oxide. Journal of Luminescence, 2007, 122-123, 342-344.	3.1	7
47	The simulation of TL processes in Î±-Al2O3 using different ratios between parameters of trapping and luminescent centers. Journal of Luminescence, 2007, 122-123, 377-380.	3.1	7
48	Optical absorption edge parameters of zirconium dioxide nanotubular structures. Journal of Physics: Conference Series, 2017, 917, 062031.	0.4	7
49	Evaluation of the Ophthalmotoxic Effect of Quantum Dots and Bioconjugates Based on Them in Terms of the Prospects for the Treatment of Resistant Endophthalmitis. Experimental Research (Stage 1). Oftalmologiya, 2021, 18, 476-487.	0.5	7
50	Evaluation of the Ophthalmotoxic Effect of Quantum Dots InP/ZnSe/ZnS 660 and Bioconjugates Based on Them in Terms of the Prospects for the Treatment of Resistant Endophthalmitis. Experimental Research. Part 2 (Stage 1). Oftalmologiya, 2021, 18, 876-884.	0.5	7
51	Spectroscopic characteristics of anionic centers in Î±-Al2O3 crystals bombarded by Cu+ and Ti+ ions. Journal of Applied Spectroscopy, 2008, 75, 452-455.	0.7	6
52	Genetic synthesizing of band schemes for thermoluminescence in dosimetric crystals. Radiation Measurements, 2008, 43, 218-221.	1.4	6
53	Continuous wave OSL in bulk AlN single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 457-460.	0.8	6
54	Cathodoluminescence of oxygen-vacancy centers in structures of aluminum nitride. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 211-214.	0.6	6

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55	Spectral features and voltage effects in high-field electroluminescence of AlN filamentary nanocrystals. Optical Materials, 2016, 61, 111-114.	3.6	6
56	Application of hexagonal boron nitride micropowder for thermoluminescent dosimetry of UV radiation. Radiation Measurements, 2016, 90, 205-209.	1.4	6
57	Nanostructural features of anodic zirconia synthesized using different temperature modes. Journal of Physics: Conference Series, 2018, 1124, 022004.	0.4	6
58	Activation energy distribution in thermal quenching of exciton and defect-related photoluminescence of InP/ZnS quantum dots. Journal of Luminescence, 2022, 242, 118550.	3.1	6
59	Structural, Optical, Luminescence, and Electrical Properties of Eu/Li- and Eu/Na-Codoped Magnesium Bismuth Niobate Pyrochlores. Inorganic Chemistry, 0, , .	4.0	6
60	Compensation effect in thermoluminescence of TLD-500. Radiation Measurements, 2008, 43, 259-262.	1.4	5
61	Blue electroluminescence from AlN nanowhiskers. Technical Physics Letters, 2015, 41, 332-335.	0.7	5
62	Automatized complex for measuring the electrical properties of MIM structures. , 2016, , .		5
63	Diffuse reflectance spectral features of hexagonal boron nitride nanopowder. AIP Conference Proceedings, 2017, , .	0.4	5
64	Photoluminescence thermal quenching of yellow-emitting InP/ZnS quantum dots. AIP Conference Proceedings, 2018, , .	0.4	5
65	Luminescence mechanism and energy transfer in cesium metavanadate CsVO3. Radiation Measurements, 2019, 124, 48-53.	1.4	5
66	Spectrally resolved thermoluminescence in electron irradiated AlN submicrocrystals. Radiation Measurements, 2019, 122, 91-96.	1.4	5
67	Dosimetric application of green luminescence in irradiated TLD-500 detectors. Radiation Measurements, 2013, 56, 228-231.	1.4	4
68	Local levels in La1-xSrxScO3-x/2 band-gap under interaction with components of O2, H2, H2O atmospheres. International Journal of Hydrogen Energy, 2018, 43, 17364-17372.	7.1	4
69	Conduction mechanisms in memristors based on nanotubular arrays of zirconium oxide. AIP Conference Proceedings, 2019, , .	0.4	4
70	ZnS Nanopowders and ZnS/Ag2S Heteronanostructures: Synthesis and Properties. Russian Journal of Inorganic Chemistry, 2020, 65, 1312-1319.	1.3	4
71	Optical parameters and energy gap estimation in hafnia thin film. AIP Conference Proceedings, 2020, , .	0.4	4
72	Spectrally Resolved Thermoluminescence of Anionâ€Deficient Al 2 O 3 â€“BeO Ceramics for Highâ€Dose Dosimetry. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000341.	1.8	4

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73	Can nano PZT-OPC composites be used as a smart Î³-ray attenuator?. Journal of Physics and Chemistry of Solids, 2021, 159, 110254.	4.0	4
74	Specific features of 3.8-eV emission in TL spectra of oxygen-deficient corundum. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 523-526.	0.8	3
75	Specific features of photoluminescence of oxygen-deficient centers in irradiated silica glass. Journal of Luminescence, 2007, 122-123, 152-154.	3.1	3
76	Automated installation for organic coatings deposition by vacuum thermal evaporation method. AIP Conference Proceedings, 2017, , .	0.4	3
77	Oxide layer thickness effects on the resistance switching characteristics of Ti/TiO<inf>2</inf>-NT/Au structure. , 2018, , .		3
78	Microstructure and luminescence properties of the high pressure high temperature sintered AlNâ€“TiN ceramics. Ceramics International, 2021, 47, 16876-16881.	4.8	3
79	Laboratory Analysis of the Anti-Infectious Activity of Quantum Dots and Bioconjugates Based on Them in the Aspect of the Prospects for the Treatment of Inflammatory Diseases of the Eye. Experimental Research (Part 3). Oftalmologiya, 2022, 19, 188-194.	0.5	3
80	The shape and the temperature dependence of the main band in UV absorption spectra of TLD-500 dosimetric crystals. Radiation Measurements, 2001, 33, 763-767.	1.4	2
81	Resonance vibrations of F- and F⁺- centers in Î±-Al₂O₃crystals. Journal of Physics: Conference Series, 2007, 92, 012144.	0.4	2
82	Radiation optical effects in commercial SiO₂:Ge fibers. Journal of Physics: Conference Series, 2014, 552, 012036.	0.4	2
83	Thermoluminescence curves simulation using genetic algorithmÂwithÂfactorial design. Modern Physics Letters B, 2016, 30, 1650144.	1.9	2
84	Blue photoluminescence of sponge-like highly porous alumina synthesized in hydrofluoric acid based electrolytes. Journal of Physics: Conference Series, 2017, 917, 062061.	0.4	2
85	Spectral Features and Luminescence Thermal Quenching of InP/ZnS Quantum Dots within 7.5 â€“ 295 K Range. , 2018, , .		2
86	When lost in a multiverse again. Materials Today, 2019, 31, 1-2.	14.2	2
87	Spectral and kinetic parameters of thermoluminescence in cation-deficient AlN crystals. AIP Conference Proceedings, 2019, , .	0.4	2
88	Specific Features of Spectrally Resolved Thermoluminescence in UV-Irradiated Aluminum Nitride Microcrystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 1430-1434.	0.6	2
89	Non-radiative relaxation processes in luminescence of InP/ZnS quantum dots. Journal of Physics: Conference Series, 2020, 1537, 012015.	0.4	2
90	Spectral characterization of long-lived luminescence in h-BN powder under UV excitation. Journal of Alloys and Compounds, 2021, 871, 159471.	5.5	2

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91	Excitonâ€“Phonon Interactions and Temperature Behavior of Optical Spectra in Core/Shell InP/ZnS Quantum Dots. Lecture Notes in Nanoscale Science and Technology, 2020, , 165-196.	0.8	2
92	Thermal quenching of self-trapped exciton luminescence in nanostructured hafnia. Journal of Luminescence, 2022, 247, 118908.	3.1	2
93	The influence of structural factors on the optical absorption edge of dense flints. Glass Physics and Chemistry, 2004, 30, 487-491.	0.7	1
94	Extended Abbe diagram for dense flints. Glass Physics and Chemistry, 2006, 32, 136-140.	0.7	1
95	Characteristic features of thermoluminescence kinetics in dosimetric aluminum oxide crystals. Journal of Applied Spectroscopy, 2006, 73, 206-210.	0.7	1
96	Automatized channel for resistivity measurements in layered materials by four-point probe technique. AIP Conference Proceedings, 2016, , .	0.4	1
97	Spectrally resolved thermoluminescence in UV excited hexagonal boron nitride nanopowder. Journal of Physics: Conference Series, 2018, 1115, 052025.	0.4	1
98	Unidirectional synapse-like behavior of Zr/ZrO<inf>2</inf>-NT/Au layered structure. , 2018, , .		1
99	Comparative Analysis of Photoluminescence Characteristics of Nanoporous Alumina Anodized in Different Electrolytes. , 2018, , .		1
100	Optical and electrophysical properties of Indolo[3,2-b]carbazole based thin-film structures. AIP Conference Proceedings, 2020, , .	0.4	1
101	Effect of annealing on photoluminescence properties in zirconium dioxide nanotubes. AIP Conference Proceedings, 2020, , .	0.4	1
102	OSL diagnostics of luminescent materials in a scanning electron microscope. Russian Journal of Nondestructive Testing, 2014, 50, 736-740.	0.9	0
103	Simulation of TL Mechanisms in Materials with Using Fractal Rate Kinetics. Advanced Materials Research, 0, 1051, 265-267.	0.3	0
104	Thick-film carbon-containing electrodes modified with multi-walled carbon nanotubes in adsorptive stripping voltammetry of iron(III). Russian Journal of Applied Chemistry, 2015, 88, 699-705.	0.5	0
105	ESR study of nanoporous alumina anodized using different electrolytes. AIP Conference Proceedings, 2018, , .	0.4	0
106	Obituary Professor Vsevolod S. Kortov. 1939â€“2017. Radiation Measurements, 2018, 113, A1-A2.	1.4	0
107	Study of Spectrally Resolved Thermoluminescence in Tsarev and Chelyabinsk Chondrites with a Versatile High-Sensitive Setup. Materials, 2021, 14, 6518.	2.9	0