Ilya A Weinstein

List of Publications by Year
in descending order

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Version: 2024-02-01

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	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
2	Quantum conductors formation and resistive switching memory effects in zirconia nanotubes. Nanotechnology, 2022, 33, 075208.	2.6	8
3	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
4	Thermal quenching of self-trapped exciton luminescence in nanostructured hafnia. Journal of Luminescence, 2022, 247, 118908.	3.1	2
5	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
6	Spectrally Resolved Thermoluminescence of Anionâ€Đeficient Al 2 O 3 â€“BeO Ceramics for Highâ€Đose Dosimetry. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000341.	1.8	4
7	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
8	Titanium dioxide nanotubes: synthesis, structure, properties and applications. Russian Chemical Reviews, 2021, 90, 1397-1414.	6.5	21
9	Microstructure and luminescence properties of the high pressure high temperature sintered AlNâ€“TiN ceramics. Ceramics International, 2021, 47, 16876-16881.	4.8	3
10	Spectral characterization of long-lived luminescence in h-BN powder under UV excitation. Journal of Alloys and Compounds, 2021, 871, 159471.	5.5	2
11	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
12	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
13	Study of Spectrally Resolved Thermoluminescence in Tsarev and Chelyabinsk Chondrites with a Versatile High-Sensitive Setup. Materials, 2021, 14, 6518.	2.9	0
14	Constructing g-C3N4/Cd1â^'xZnxS-Based Heterostructures for Efficient Hydrogen Production under Visible Light. Catalysts, 2021, 11, 1340.	3.5	9
15	Ferroelectric and Dielectric Properties of Strontium Titanate Doped with Barium. Magnetism, 2021, 1, 22-36.	1.5	12
16	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
17	ZnS Nanopowders and ZnS/Ag2S Heteronanostructures: Synthesis and Properties. Russian Journal of Inorganic Chemistry, 2020, 65, 1312-1319.	1.3	4
18	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

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19	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
20	Non-radiative relaxation processes in luminescence of InP/ZnS quantum dots. Journal of Physics: Conference Series, 2020, 1537, 012015.	0.4	2
21	Optical parameters and energy gap estimation in hafnia thin film. AIP Conference Proceedings, 2020, , .	0.4	4
22	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
23	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
24	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
25	Optical and electrophysical properties of Indolo[3,2-b]carbazole based thin-film structures. AIP Conference Proceedings, 2020, , .	0.4	1
26	Effect of annealing on photoluminescence properties in zirconium dioxide nanotubes. AIP Conference Proceedings, 2020, , .	0.4	1
27	When lost in a multiverse again. Materials Today, 2019, 31, 1-2.	14.2	2
28	Inhomogeneous Broadening of the Exciton Band in Optical Absorption Spectra of InP/ZnS Nanocrystals. Nanomaterials, 2019, 9, 716.	4.1	12
29	Luminescence mechanism and energy transfer in cesium metavanadate CsVO3. Radiation Measurements, 2019, 124, 48-53.	1.4	5
30	Influence of calcination on photocatalytic properties of nonstoichiometric titanium dioxide nanotubes. Journal of Alloys and Compounds, 2019, 796, 293-299.	5.5	31
31	Thermally stimulated processes in the luminescence of carbon-related defects for h-BN micropowder. Radiation Measurements, 2019, 124, 35-39.	1.4	12
32	Spectrally resolved thermoluminescence in electron irradiated AlN submicrocrystals. Radiation Measurements, 2019, 122, 91-96.	1.4	5
33	Spectral and kinetic parameters of thermoluminescence in cation-deficient AlN crystals. AIP Conference Proceedings, 2019, , .	0.4	2
34	Conduction mechanisms in memristors based on nanotubular arrays of zirconium oxide. AIP Conference Proceedings, 2019, , .	0.4	4
35	Electron-phonon interactions in subband excited photoluminescence of hexagonal boron nitride. Journal of Luminescence, 2019, 208, 363-370.	3.1	36
36	Effect of temperature on the spectral properties of InP/ZnS nanocrystals. Journal of Physics: Conference Series, 2018, 961, 012003.	0.4	8

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37	Nanostructural features of anodic zirconia synthesized using different temperature modes. Journal of Physics: Conference Series, 2018, 1124, 022004.	0.4	6
38	Spectrally resolved thermoluminescence in UV excited hexagonal boron nitride nanopowder. Journal of Physics: Conference Series, 2018, 1115, 052025.	0.4	1
39	ESR study of nanoporous alumina anodized using different electrolytes. AIP Conference Proceedings, 2018, , .	0.4	0
40	Photoluminescence thermal quenching of yellow-emitting InP/ZnS quantum dots. AIP Conference Proceedings, 2018, , .	0.4	5
41	Nonstoichiometric titanium dioxide nanotubes with enhanced catalytical activity under visible light. Scientific Reports, 2018, 8, 9607.	3.3	50
42	Oxide layer thickness effects on the resistance switching characteristics of Ti/TiO<inf>2</inf>-NT/Au structure. , 2018, , .		3
43	Unidirectional synapse-like behavior of Zr/ZrO<inf>2</inf>-NT/Au layered structure. , 2018, , .		1
44	Spectral Features and Luminescence Thermal Quenching of InP/ZnS Quantum Dots within 7.5 â€“ 295 K Range. , 2018, , .		2
45	Obituary Professor Vsevolod S. Kortov. 1939â€“2017. Radiation Measurements, 2018, 113, A1-A2.	1.4	0
46	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
47	Comparative Analysis of Photoluminescence Characteristics of Nanoporous Alumina Anodized in Different Electrolytes. , 2018, , .		1
48	Estimation of thermoluminescence kinetic parameters in h-BN by different techniques. Radiation Measurements, 2017, 106, 55-60.	1.4	8
49	Temperature dependence of the optical absorption spectra of InP/ZnS quantum dots. Technical Physics Letters, 2017, 43, 297-300.	0.7	9
50	Thermal quenching of luminescence in nanostructured monoclinic zirconium dioxide. Radiation Measurements, 2017, 106, 155-160.	1.4	21
51	Optical absorption edge parameters of zirconium dioxide nanotubular structures. Journal of Physics: Conference Series, 2017, 917, 062031.	0.4	7
52	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
53	Diffuse reflectance spectral features of hexagonal boron nitride nanopowder. AIP Conference Proceedings, 2017, , .	0.4	5
54	Automated installation for organic coatings deposition by vacuum thermal evaporation method. AIP Conference Proceedings, 2017, , .	0.4	3

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55	Temperature-induced shift of the exciton absorption band in InP/ZnS quantum dots. Optical Materials Express, 2017, 7, 354.	3.0	16
56	Optical properties of InP/ZnS quantum dots deposited into nanoporous anodic alumina. Journal of Physics: Conference Series, 2016, 741, 012151.	0.4	10
57	Synthesis of Composite Based on Carbon Nanotubes and Anodic Titania. Advanced Science Letters, 2016, 22, 688-690.	0.2	9
58	Luminescence characteristics of nanoporous anodic alumina annealed at different temperatures. AIP Conference Proceedings, 2016, , .	0.4	10
59	Two-level quenching of photoluminescence in hexagonal boron nitride micropowder. AIP Conference Proceedings, 2016, , .	0.4	9
60	Spectral features and voltage effects in high-field electroluminescence of AlN filamentary nanocrystals. Optical Materials, 2016, 61, 111-114.	3.6	6
61	Luminescence parameters of InP/ZnS@AAO nanostructures. AIP Conference Proceedings, 2016, , .	0.4	11
62	Automatized channel for resistivity measurements in layered materials by four-point probe technique. AIP Conference Proceedings, 2016, , .	0.4	1
63	Fuzzy Logic Module of Convolutional Neural Network for Handwritten Digits Recognition. Journal of Physics: Conference Series, 2016, 738, 012123.	0.4	13
64	Automatized complex for measuring the electrical properties of MIM structures. , 2016, , .		5
65	Thermoluminescence curves simulation using genetic algorithmÂwithÂfactorial design. Modern Physics Letters B, 2016, 30, 1650144.	1.9	2
66	Application of hexagonal boron nitride micropowder for thermoluminescent dosimetry of UV radiation. Radiation Measurements, 2016, 90, 205-209.	1.4	6
67	Spectrally resolved thermoluminescence measurements in fluorescence spectrometer. Measurement: Journal of the International Measurement Confederation, 2015, 66, 90-94.	5.0	18
68	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
69	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
70	Blue electroluminescence from AlN nanowhiskers. Technical Physics Letters, 2015, 41, 332-335.	0.7	5
71	OSL diagnostics of luminescent materials in a scanning electron microscope. Russian Journal of Nondestructive Testing, 2014, 50, 736-740.	0.9	0
72	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

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73	Radiation optical effects in commercial SiO₂:Ge fibers. Journal of Physics: Conference Series, 2014, 552, 012036.	0.4	2
74	A high-temperature accessory for measurements of the spectral characteristics of thermoluminescence. Instruments and Experimental Techniques, 2014, 57, 369-373.	0.5	18
75	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. Science, 2013, 342, 1069-1073.	12.6	487
76	Spectral and kinetic features of thermoluminescence in hexagonal boron nitride powder after UV-irradiation. Radiation Measurements, 2013, 56, 236-239.	1.4	16
77	Dosimetric application of green luminescence in irradiated TLD-500 detectors. Radiation Measurements, 2013, 56, 228-231.	1.4	4
78	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
79	Thermoluminescence kinetics of oxygen-related centers in AlN single crystals. Diamond and Related Materials, 2012, 25, 59-62.	3.9	43
80	Afterglow in bulk AlN single crystals under Î²-irradiation. Journal of Luminescence, 2012, 132, 2109-2113.	3.1	22
81	Kinetic features of optically stimulated luminescence in aluminum nitride powder. Technical Physics Letters, 2012, 38, 160-163.	0.7	8
82	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
83	Genetic synthesizing of band schemes for thermoluminescence in dosimetric crystals. Radiation Measurements, 2008, 43, 218-221.	1.4	6
84	Compensation effect in thermoluminescence of TLD-500. Radiation Measurements, 2008, 43, 259-262.	1.4	5
85	Resonance vibrations of F- and F⁺- centers in Î±-Al₂O₃crystals. Journal of Physics: Conference Series, 2007, 92, 012144.	0.4	2
86	Specific features of photoluminescence of oxygen-deficient centers in irradiated silica glass. Journal of Luminescence, 2007, 122-123, 152-154.	3.1	3
87	The compensation effect during luminescence of anion centers in aluminum oxide. Journal of Luminescence, 2007, 122-123, 342-344.	3.1	7
88	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
89	Evolutionary approach in the simulation of thermoluminescence kinetics. Radiation Measurements, 2007, 42, 735-738.	1.4	9
90	Genetic search for model parameters in fitting thermoluminescence curves. Technical Physics Letters, 2006, 32, 534-537.	0.7	8

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91	Extended Abbe diagram for dense flints. Glass Physics and Chemistry, 2006, 32, 136-140.	0.7	1
92	Thermal quenching of 3.0-eV photoluminescence in Î±-Al2O3 single crystals. Technical Physics Letters, 2006, 32, 58-60.	0.7	8
93	Characteristic features of thermoluminescence kinetics in dosimetric aluminum oxide crystals. Journal of Applied Spectroscopy, 2006, 73, 206-210.	0.7	1
94	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
95	The influence of structural factors on the optical absorption edge of dense flints. Glass Physics and Chemistry, 2004, 30, 487-491.	0.7	1
96	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
97	F- â‡'F+-CENTERS transformations in mechanisms of sensitization of TLD-500. Radiation Measurements, 2004, 38, 421-425.	1.4	7
98	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
99	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
100	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
101	Quasi-dynamic structural disorder induced by fast neutrons in Be3Al2Si6O18 crystals. Physics of the Solid State, 2001, 43, 246-250.	0.6	9
102	The Urbach rule for the PbO-SiO2 glasses. Physics of the Solid State, 2000, 42, 230-235.	0.6	19
103	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
104	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
105	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
106	Simulation of TL Mechanisms in Materials with Using Fractal Rate Kinetics. Advanced Materials Research, 0, 1051, 265-267.	0.3	0
107	Structural, Optical, Luminescence, and Electrical Properties of Eu/Li- and Eu/Na-Codoped Magnesium Bismuth Niobate Pyrochlores. Inorganic Chemistry, 0, , .	4.0	6