

Anatoly F Zatsepin

List of Publications by Year in descending order

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192
papers

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394421

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193
times ranked

1623
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of structural disorder and Urbach's rule in binary lead silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 279, 77-87.	3.1	65
2	Applicability of the empirical Varshni relation for the temperature dependence of the width of the band gap. <i>Physics of the Solid State</i> , 1999, 41, 905-908.	0.6	63
3	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. <i>Applied Surface Science</i> , 2018, 436, 697-707.	6.1	63
4	Atomic structure, electronic states, and optical properties of epitaxially grown β -Ga ₂ O ₃ layers. <i>Superlattices and Microstructures</i> , 2018, 120, 90-100.	3.1	60
5	XPS and DFT study of pulsed Bi-implantation of bulk and thin-films of ZnO—The role of oxygen imperfections. <i>Applied Surface Science</i> , 2016, 387, 1093-1099.	6.1	41
6	Luminescence properties of nanostructured alumina ceramic. <i>Radiation Measurements</i> , 2008, 43, 341-344.	1.4	36
7	Sn-loss effect in a Sn-implanted a-SiO ₂ host-matrix after thermal annealing: A combined XPS, PL, and DFT study. <i>Applied Surface Science</i> , 2016, 367, 320-326.	6.1	35
8	Specific features of luminescence properties of nanostructured aluminum oxide. <i>Physics of the Solid State</i> , 2008, 50, 957.	0.6	34
9	2D-ordered kinked carbyne chains: DFT modeling and Raman characterization. <i>Carbon</i> , 2017, 117, 271-278.	10.3	31
10	XPS-and-DFT analyses of the Pb 4f—Zn 3s and Pb 5d—O 2s overlapped ambiguity contributions to the final electronic structure of bulk and thin-film Pb-modulated zincite. <i>Applied Surface Science</i> , 2017, 405, 129-136.	6.1	30
11	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO ₂ -host by Pb-implantation: XPS-and-DFT characterization. <i>Applied Surface Science</i> , 2017, 400, 110-117.	6.1	28
12	The MRO-accompanied modes of Re-implantation into SiO ₂ -host matrix: XPS and DFT based scenarios. <i>Journal of Alloys and Compounds</i> , 2017, 728, 759-766.	5.5	28
13	Down-conversion of UV radiation in erbium-doped gadolinium oxide nanoparticles. <i>Applied Materials Today</i> , 2018, 12, 34-42.	4.3	26
14	Electronic states spectrum for lead silicate glasses with different short-range order structures. <i>Journal of Non-Crystalline Solids</i> , 1991, 127, 259-266.	3.1	25
15	Bi-doped silica glass: A combined XPS—DFT study of electronic structure and pleomorphic imperfections. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154459.	5.5	23
16	Statics and dynamics of excited states of oxygen-deficient centers in SiO ₂ . <i>Physics of the Solid State</i> , 2010, 52, 1176-1187.	0.6	22
17	Photosensitive Defects in Gd ₂ O ₃ —Advanced Material for Solar Energy Conversion. <i>Energy Procedia</i> , 2016, 102, 144-151.	1.8	21
18	Fabrication of (Y _{0.95} Eu _{0.05}) ₂ O ₃ phosphors with enhanced properties by co-precipitation of layered rare-earth hydroxide. <i>Journal of Alloys and Compounds</i> , 2019, 805, 258-266.	5.5	21

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19	Electronic structure and photoluminescence properties of Zn-ion implanted silica glass before and after thermal annealing. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 183-188.	3.1	20
20	Optical properties and energy parameters of Gd ₂ O ₃ and Gd ₂ O ₃ :Er nanoparticles. <i>Journal of Physics: Conference Series</i> , 2017, 917, 062001.	0.4	20
21	The Urbach rule for the PbO-SiO ₂ glasses. <i>Physics of the Solid State</i> , 2000, 42, 230-235.	0.6	19
22	Octahedral conversion of a-SiO ₂ host matrix by pulsed ion implantation. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2185-2190.	1.5	19
23	Photoluminescence of Si nanocrystals embedded in : Excitation/emission mapping. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 600-606.	1.5	19
24	Stability of boron-doped graphene/copper interface: DFT, XPS and OSEE studies. <i>Applied Surface Science</i> , 2018, 441, 978-983.	6.1	19
25	Electronic excitations and intrinsic defects in nanostructural Al ₂ O ₃ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 351-354.	0.8	18
26	Simulation of chemical bond distributions and phase transformation in carbon chains. <i>Carbon</i> , 2017, 114, 106-110.	10.3	18
27	X-ray emission spectra and electronic structure of Cu ₂ S ₄ and Cu ₂ Se ₄ . <i>Solid State Communications</i> , 1998, 108, 235-239.	1.9	17
28	Luminescent defects in nanostructured silica. <i>Physics of the Solid State</i> , 2006, 48, 1273-1279.	0.6	17
29	Modified Urbach's rule and frozen phonons in glasses. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2916-2919.	0.8	16
30	Method for the analysis of nonselective spectra of optically stimulated electron emission from irradiated dielectrics. <i>Physica Status Solidi A</i> , 2005, 202, 1935-1947.	1.7	16
31	Photosensitive defects in silica layers implanted with germanium ions. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 61-67.	3.1	16
32	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO ₂ . <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	16
33	Exoelectron spectroscopy of traps in surface layers of phenakite and quartz. <i>Physics and Chemistry of Minerals</i> , 1985, 12, 114-121.	0.8	15
34	An intrinsic luminescence in binary lead silicate glasses. <i>Optical Materials</i> , 2012, 34, 807-811.	3.6	15
35	Low-temperature photoluminescence of ion-implanted SiO ₂ :Sn ⁺ films and glasses. <i>Journal of Surface Investigation</i> , 2012, 6, 668-672.	0.5	14
36	UV absorption and effects of local atomic disordering in the nickel oxide nanoparticles. <i>Journal of Luminescence</i> , 2017, 183, 135-142.	3.1	14

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37	New optical oxygen-deficient centers in 80 keV Re-implanted amorphous silica. Journal of Non-Crystalline Solids, 2020, 529, 119775.	3.1	14
38	Exoelectronic spectroscopy of intrinsic and extrinsic color centers in surface layers of alkali silicate glasses. Journal of Non-Crystalline Solids, 1991, 134, 208-217.	3.1	13
39	Photoelectron spectroscopy of E ₂ centers in crystalline and glassy silicon dioxide. Physics of the Solid State, 2006, 48, 245-254.	0.6	13
40	Structural defects and electronic structure of N-ion implanted TiO ₂ : Bulk versus thin film. Applied Surface Science, 2015, 355, 984-988.	6.1	13
41	Pleomorphic structural imperfections caused by pulsed Bi-implantation in the bulk and thin-film morphologies of TiO ₂ . Applied Surface Science, 2016, 379, 223-229.	6.1	13
42	The temperature behavior and mechanism of exciton luminescence in quantum dots. Physical Chemistry Chemical Physics, 2017, 19, 18721-18730.	2.8	13
43	Room temperature p-orbital magnetism in carbon chains and the role of group IV, V, VI, and VII dopants. Nanoscale, 2018, 10, 11186-11195.	5.6	13
44	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
45	Luminescence of modified nonbridging oxygen hole centers in silica and alkali silicate glasses. Glass Physics and Chemistry, 2008, 34, 709-715.	0.7	12
46	Time-resolved photoluminescence of implanted SiO ₂ :Si ⁺ films. Journal of Non-Crystalline Solids, 2009, 355, 1119-1122.	3.1	12
47	Bulk In ₂ O ₃ crystals grown by chemical vapour transport: a combination of XPS and DFT studies. Journal of Materials Science: Materials in Electronics, 2019, 30, 18753-18758.	2.2	12
48	Electronic Excitations and Defects in Nanostructural Al ₂ O ₃ . Physics of the Solid State, 2005, 47, 733.	0.6	11
49	Photoluminescence of Se-related oxygen deficient center in ion-implanted silica films. Journal of Luminescence, 2013, 143, 498-502.	3.1	11
50	Analytical temperature dependence of the photoluminescence of semiconductor quantum dots. Physics of the Solid State, 2014, 56, 635-638.	0.6	11
51	Superconductivity in ultra-thin carbon nanotubes and carbyne-nanotube composites: An ab-initio approach. Carbon, 2017, 125, 509-515.	10.3	11
52	Electron-emission activity of defects in surface layers of crystalline and vitreous silica. Radiation Effects and Defects in Solids, 2002, 157, 595-601.	1.2	10
53	Photoemission and luminescence properties of quartz glass implanted with Cu ⁺ ions. Journal of Surface Investigation, 2008, 2, 450-453.	0.5	10
54	Luminescence of rare-earth ions and intrinsic defects in Gd ₂ O ₃ matrix. Journal of Physics: Conference Series, 2016, 741, 012089.	0.4	10

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55	Influence of dopants on the impermeability of graphene. <i>Nanoscale</i> , 2017, 9, 6145-6150.	5.6	10
56	Characteristic features of optical absorption for Gd ₂ O ₃ and NiO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	10
57	Interband optical transitions in Gd ₂ O ₃ : Er nanoparticles – prospective system for energy convertors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 292, 012047.	0.6	10
58	Atomic and electronic structure of graphene oxide/Cu interface. <i>Thin Solid Films</i> , 2018, 665, 99-108.	1.8	10
59	Effect of thickness and substrate type on the structure and low vacuum photoemission of carbyne-containing films. <i>Carbon</i> , 2019, 152, 388-395.	10.3	10
60	Local atomic configurations, energy structure, and optical properties of implantation defects in Gd-doped silica glass: An XPS, PL, and DFT study. <i>Journal of Alloys and Compounds</i> , 2019, 796, 77-85.	5.5	10
61	First-principle studies of optical properties of Be Zn ₁ -O ternary mixed crystal. <i>Optik</i> , 2019, 178, 691-697.	2.9	10
62	Electronic Structure and Optical Absorption in Gd-implanted Silica Glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800522.	1.8	10
63	Effect of long-term storage on the electronic structure of semiconducting silicon wafers implanted by rhenium ions. <i>Journal of Materials Science</i> , 2021, 56, 2103-2112.	3.7	10
64	Quasi-dynamic structural disorder induced by fast neutrons in Be ₃ Al ₂ Si ₆ O ₁₈ crystals. <i>Physics of the Solid State</i> , 2001, 43, 246-250.	0.6	9
65	Localized electronic excitations in crystalline phenacite Be ₂ SiO ₄ . <i>Physics of the Solid State</i> , 2009, 51, 465-473.	0.6	9
66	The relation between static disorder and photoluminescence quenching law in glasses: A numerical technique. <i>Journal of Luminescence</i> , 2010, 130, 1721-1724.	3.1	9
67	Energy transfer in Gd ₂ O ₃ :Er nanoparticles applying as a down-conversion layer for solar cell. <i>Journal of Physics: Conference Series</i> , 2017, 917, 052015.	0.4	9
68	Upconversion Luminescence of Gd ₂ O ₃ Nanocrystals Doped with Er ³⁺ and Yb ³⁺ Ions. <i>Technical Physics Letters</i> , 2018, 44, 622-625.	0.7	9
69	Kinetic selection of nonradiative excitation in photonic nanoparticles Gd ₂ O ₃ :Er. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6818-6825.	2.8	9
70	Structural and electron-optical properties of transparent nanocrystalline MgAl ₂ O ₄ spinel implanted with copper ions. <i>Journal of Alloys and Compounds</i> , 2020, 834, 154993.	5.5	9
71	Energy gaps, refractive index and photon emission from point defects in copper-doped Gd ₂ O ₃ nanocrystalline films. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163872.	5.5	9
72	Energy conversion of X-ray, ultraviolet and infrared radiation in Gd ₂ O ₃ crystals doped with Er ³⁺ ions. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	8

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73	Recombination processes with the participation of localized electronic states of band tails in phosphate glasses. <i>Journal of Luminescence</i> , 1995, 65, 355-362.	3.1	7
74	Nonradiative relaxation of photoexcited O 1 0 centers in glassy SiO ₂ . <i>Physics of the Solid State</i> , 2002, 44, 1671-1675.	0.6	7
75	Electron emission from excited states of Eâ€² centers in SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 590-593.	3.1	7
76	Non-radiative relaxation of excited states of non-bridging oxygen hole centers in silica. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 789-792.	0.8	7
77	Specific features of luminescence of oxygen-deficient centres in nanostructured silicon dioxide. <i>Radiation Measurements</i> , 2007, 42, 891-893.	1.4	7
78	Low-temperature luminescence of lead silicate glass. <i>Glass Physics and Chemistry</i> , 2010, 36, 166-170.	0.7	7
79	Mechanism of quantum dot luminescence excitation within implanted SiO ₂ :Si:C films. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 045301.	1.8	7
80	Formation of GeO and GeO nanoclusters in Ge+-implanted SiO ₂ /Si thin-film heterostructures under rapid thermal annealing. <i>Applied Surface Science</i> , 2015, 349, 780-784.	6.1	7
81	A theoretical quest for high temperature superconductivity on the example of low-dimensional carbon structures. <i>Scientific Reports</i> , 2017, 7, 15815.	3.3	7
82	The high refractive index of Gd ₂ O ₃ thin films obtained by magnetron sputtering. <i>Optical Materials</i> , 2021, 120, 111382.	3.6	7
83	Urbach rule in photoelectron emission from surface states of low-sized silica. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1123-1127.	3.1	6
84	Configurations and local vibrations of differently charged oxygen vacancies in quartz crystal. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1912-1915.	3.1	6
85	Pb+ implanted SiO ₂ probed by soft x-ray emission and absorption spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3381-3384.	3.1	6
86	Paramagnetic defects in gamma-irradiated Na/K-silicate glasses. <i>Physics of the Solid State</i> , 2012, 54, 1776-1784.	0.6	6
87	Electron microscopic imaging of an ion beam mixed SiO ₂ /Si interface correlated with photoâ€•and cathodoluminescence. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1101-1108.	1.8	6
88	Insight into the defectâ€•molecule interaction through the molecular-like photoluminescence of SiO ₂ nanoparticles. <i>RSC Advances</i> , 2016, 6, 93010-93015.	3.6	6
89	Induced Quasi-Dynamic Disorder in a Structure of Rhenium Ion-Implanted Quartz Glass. <i>Physics of the Solid State</i> , 2019, 61, 1017-1022.	0.6	6
90	Defect structure and vibrational states in Eu-doped cubic gadolinium oxide. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24498-24505.	2.8	6

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91	Chemical instability of free-standing boron monolayers and properties of oxidized borophene sheets. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 120, 114082.	2.7	6
92	Structural characterization and photoluminescence of (Gd _{1-x} Er _x) ₂ O ₃ nanophosphors synthesized by co-precipitation of layered precursors. <i>Ceramics International</i> , 2021, 47, 2725-2734.	4.8	6
93	Electronic Properties of Carbyne Chains: Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8268-8273.	3.1	6
94	Anisotropy of Exoemission Properties of Quartz Single Crystals. <i>Japanese Journal of Applied Physics</i> , 1985, 24, 88.	1.5	6
95	Synthesis, FTIR, and mechanical as well as radiation shielding characteristics in Nd ₂ O ₃ -doped bismuth lithium borate glasses. <i>Ceramics International</i> , 2022, 48, 12829-12837.	4.8	6
96	Electronic structure of phosphate glasses with a complex oxygen sublattice structure. <i>Physics of the Solid State</i> , 1997, 39, 1212-1217.	0.6	5
97	Vibrational structure of electronic states in alkali-silicate glasses. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2912-2915.	0.8	5
98	Characteristics of the electron-emission defects introduced in SiO ₂ structures by MeV electron irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 5027-5031.	1.4	5
99	Electronic and vibrational states of oxygen and sulfur molecular ions inside implanted SiO ₂ films. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1977-1980.	3.1	5
100	Electronic mechanism of thermal destruction of radiation-induced E'-centers in crystalline and glassy SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1856-1859.	3.1	5
101	Stationary and nonstationary absorption in lead silicate glasses with short-range order inversion. <i>Optical Materials</i> , 2011, 33, 601-606.	3.6	5
102	Vibrations induced by different charged oxygen vacancies in quartz-like GeO ₂ . <i>Computational Materials Science</i> , 2013, 74, 12-16.	3.0	5
103	Synchrotron-Excited Photoluminescence Spectroscopy of Silicon- and Carbon-Containing Quantum Dots in Low Dimensional SiO ₂ Matrices. <i>Springer Series in Materials Science</i> , 2013, , 89-117.	0.6	5
104	Interference effects in the UV(VUV)-excited luminescence spectroscopy of thin dielectric films. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 509-514.	2.4	5
105	Environment assisted photoconversion of luminescent surface defects in SiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2017, 420, 94-99.	6.1	5
106	Enhanced clustering tendency of Cu-impurities with a number of oxygen vacancies in heavy carbon-loaded TiO ₂ - the bulk and surface morphologies. <i>Solid State Sciences</i> , 2017, 71, 130-138.	3.2	5
107	Quasi-Dynamic Approach in Structural Disorder Analysis: An Ion-Beam-Irradiated Silica. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29324-29330.	3.1	5
108	Creation of Si quantum dots in a silica matrix due to conversion of radiation defects under pulsed ion-beam exposure. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25467-25473.	2.8	5

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109	Analysis of the Nonselective Spectra of Photostimulated Electron Emission from the Surface of Irradiated Dielectrics. <i>Journal of Applied Spectroscopy</i> , 2005, 72, 407-412.	0.7	4
110	Neutron-induced molecular defect O ₂ ^{•-} in beryllium orthogermanate. <i>Physics of the Solid State</i> , 2007, 49, 839-844.	0.6	4
111	Formation and electron-beam annealing of implantation defects in a thin-film Si-SiO ₂ heterostructure. <i>Technical Physics</i> , 2009, 54, 323-326.	0.7	4
112	Interplay of ballistic and chemical effects in the formation of structural defects for Sn and Pb implanted silica. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 3187-3192.	3.1	4
113	Photoluminescence of implantation-induced defects in SiO ₂ :Pb ⁺ glasses. <i>Journal of Surface Investigation</i> , 2014, 8, 540-544.	0.5	4
114	Willemite photoluminescence in Zn-implanted silica glasses. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 1355-1358.	0.8	4
115	Morphological and electron-optical properties of aluminium-magnesium spinel nanoceramics doped with gadolinium ions. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
116	Carbon Bond Breaking under Ar ⁺ -Ion Irradiation in Dependence on sp Hybridization: Car ⁺ -Parrinello, Ehrenfest, and Classical Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9128-9132.	2.5	4
117	Paramagnetic Mn Antisite Defects in Nanoceramics of Aluminum-Magnesium Spinel. <i>Physics of the Solid State</i> , 2020, 62, 137-143.	0.6	4
118	Optical properties of polyvalent iron ions and anti-site defects in transparent MgAl ₂ O ₄ ceramics. <i>Journal of Luminescence</i> , 2021, 239, 118390.	3.1	4
119	Effect of pulsed ion-beam treatment on the electronic and optical properties of GaN epitaxial films on sapphire. <i>Applied Surface Science</i> , 2022, 590, 153023.	6.1	4
120	Electron structure of oxygen vacancy-defect in SiO ₂ . <i>Solid State Communications</i> , 1985, 55, 495-497.	1.9	3
121	Influence of Point Defects in a Surface Layer on the Strength Characteristics of Glasses. <i>Glass Physics and Chemistry</i> , 2001, 27, 337-343.	0.7	3
122	Taking Account of the Nonstationarity in Analyzing the Optically Stimulated Electron Emission of Irradiated Dielectrics. <i>Journal of Applied Spectroscopy</i> , 2005, 72, 671-678.	0.7	3
123	Time-resolved spectroscopy of radiation defects in nanocrystalline germanium dioxide. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 343-346.	0.8	3
124	Specific features of photoluminescence of oxygen-deficient centers in irradiated silica glass. <i>Journal of Luminescence</i> , 2007, 122-123, 152-154.	3.1	3
125	Luminescence of intrinsic localized states in alkali silicate glasses excited by pulsed electron beam. <i>Journal of Surface Investigation</i> , 2014, 8, 726-733.	0.5	3
126	Elastic moduli of alumina nanoceramics. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012100.	0.4	3

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127	Plasma Synthesis and XPS Attestation of Thin-Film Carbon Coatings with Predetermined sp-Hybridization. <i>Physics of Atomic Nuclei</i> , 2018, 81, 1660-1663.	0.4	3
128	Yb-doping effect on structure and lattice dynamics of Gd ₂ O ₃ . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 385402.	1.8	3
129	Macroscopic Behavior and Microscopic Factors of Electron Emission from Chained Nanocarbon Coatings. <i>Journal of Carbon Research</i> , 2019, 5, 55.	2.7	3
130	Energy Conversion in Gd ₂ O ₃ Nanocrystals Doped with Er ³⁺ Ions. <i>Physics of the Solid State</i> , 2019, 61, 763-767.	0.6	3
131	Excited states of modified oxygen-deficient centers and Si quantum dots in Gd-implanted silica glasses: Emission dynamics and lifetime distributions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23184-23195.	2.8	3
132	Unveiling the Atomic and Electronic Structure of Stacked-Cup Carbon Nanofibers. <i>Nanoscale Research Letters</i> , 2021, 16, 153.	5.7	3
133	The features of Auger destruction in quasi-one-dimensional objects of inorganic and organic nature. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2022, 512, 66-75.	1.4	3
134	Spectroscopy of defects in irradiated alpo 4 and GaPO 4 crystals. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 751-754.	1.2	2
135	Pulsed Cathodoluminescence and Vibrational Structure of Localized Electronic States in Alkali Silicate Glasses. <i>Glass Physics and Chemistry</i> , 2004, 30, 400-405.	0.7	2
136	Magnetic Resonance of Metallic Nanoparticles in Vitreous Silicon Dioxide Implanted with Iron Ions. <i>Physics of the Solid State</i> , 2005, 47, 674.	0.6	2
137	Photoelectron emission from implanted SiO ₂ : Se ⁺ films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010, 74, 201-205.	0.6	2
138	Interstitial-oxygen induced localized vibrational properties in alpha-quartz. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 69-72.	3.1	2
139	Optical properties and structure of beryllium lead silicate glasses. , 2014, , .		2
140	Modeling of lattice structure and dynamics of Ge doped Î±-quartz. <i>Computational Materials Science</i> , 2014, 95, 276-279.	3.0	2
141	Photoluminescence of Gd ₂ O ₃ :Er ³⁺ based materials for conversion of solar energy. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012057.	0.4	2
142	Temperature dependence of photoluminescence of semiconductor quantum dots upon indirect excitation in a SiO ₂ dielectric matrix. <i>Physics of the Solid State</i> , 2015, 57, 1601-1606.	0.6	2
143	Ionâ€œbeam synthesis and thermal behaviour of luminescent Zn ₂ /SiO ₄ nanoparticles in silica glasses and films. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2180-2184.	1.5	2
144	Ionization effects in Si/SiO ₂ : Li, Na, K implanted structures under the impact of high-energy Î± particles. <i>Journal of Surface Investigation</i> , 2016, 10, 603-607.	0.5	2

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145	Relaxation of excited surface states of thin Ge-implanted silica films probed by OSEE spectroscopy. Journal of Luminescence, 2016, 169, 143-150.	3.1	2
146	Microstructure of luminescent MgAl ₂ O ₄ nanoceramics. IOP Conference Series: Materials Science and Engineering, 2018, 443, 012014.	0.6	2
147	Photoelectron spectra and chemical bonding in chained carbon nanocomposites. AIP Conference Proceedings, 2018, , .	0.4	2
148	Structure and Raman scattering of chained carbon films on copper substrate: ab initio approach. IOP Conference Series: Materials Science and Engineering, 2018, 292, 012102.	0.6	2
149	Energy band gaps and excited states in Si QD/SiO ₂ /R ₂ O ₃ (R = Si, Al, Zr) suboxide superlattices. Journal of Physics Condensed Matter, 2019, 31, 415301.	0.9	2
150	Intrinsic Defect-Assisted UV-Visible Energy Conversion in Gd ₂ O ₃ :Er Nanoparticles. Physica Status Solidi (B): Basic Research, 2019, 256, 1800356.	1.5	2
151	Low temperature ESR of MgAl ₂ O ₄ nanoceramics. AIP Conference Proceedings, 2019, , .	0.4	2
152	Electronic Structure of Intrinsic Defects in Amorphous GeO ₂ . Physica Status Solidi (B): Basic Research, 1988, 148, K33.	1.5	1
153	The influence of structural factors on the optical absorption edge of dense flints. Glass Physics and Chemistry, 2004, 30, 487-491.	0.7	1
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