Anatoly F Zatsepin

List of Publications by Year
in descending order

192	1,696	394421 19	477307 29
papers	citations	h-index	g-index

193	193	193	1623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The features of Auger destruction in quasi-one-dimensional objects of inorganic and organic nature. Nuclear Instruments & Methods in Physics Research B, 2022, 512, 66-75.	1.4	3
2	Synthesis, FTIR, and mechanical as well as radiation shielding characteristics in Nd2O3-doped bismuth lithium borate glasses. Ceramics International, 2022, 48, 12829-12837.	4.8	6
3	Energy gaps, refractive index and photon emission from point defects in copper-doped Gd2O3 nanocrystalline films. Journal of Alloys and Compounds, 2022, 904, 163872.	5.5	9
4	The Effectiveness of Data Augmentation of SEM Images on a Small Database Based on Deep-Learning Intelligence. Brazilian Journal of Physics, 2022, 52, 1.	1.4	0
5	Effect of pulsed ion-beam treatment on the electronic and optical properties of GaN epitaxial films on sapphire. Applied Surface Science, 2022, 590, 153023.	6.1	4
6	Temperature behavior of optical absorption edge in Bi ions implanted silica glass. AIP Conference Proceedings, 2022, , .	0.4	0
7	Tailoring the spatial-dependent Rashba parameter and spin fluctuations in nanomaterials for improved spin-FET functionality. Results in Physics, 2022, , 105703.	4.1	0
8	Structural characterization and photoluminescence of (Gd1-xErx)2O3 nanophosphors synthesized by co-precipitation of layered precursors. Ceramics International, 2021, 47, 2725-2734.	4.8	6
9	Effect of long-term storage on the electronic structure of semiconducting silicon wafers implanted by rhenium ions. Journal of Materials Science, 2021, 56, 2103-2112.	3.7	10
10	Electronic Properties of Carbyne Chains: Experiment and Theory. Journal of Physical Chemistry C, 2021, 125, 8268-8273.	3.1	6
11	Intrinsic and extrinsic bands in optical spectra of linear-chained carbon films on sodium and potassium chloride substrates. Optical Materials, 2021, 115, 111021.	3.6	0
12	The high refractive index of Gd2O3 thin films obtained by magnetron sputtering. Optical Materials, 2021, 120, 111382.	3.6	7
13	Optical properties of polyvalent iron ions and anti-site defects in transparent MgAl2O4 ceramics. Journal of Luminescence, 2021, 239, 118390.	3.1	4
14	Excited states of modified oxygen-deficient centers and Si quantum dots in Gd-implanted silica glasses: Emission dynamics and lifetime distributions. Physical Chemistry Chemical Physics, 2021, 23, 23184-23195.	2.8	3
15	Unveiling the Atomic and Electronic Structure of Stacked-Cup Carbon Nanofibers. Nanoscale Research Letters, 2021, 16, 153.	5.7	3
16	New optical oxygen-deficient centers in 80â€¯keV Re-implanted amorphous silica. Journal of Non-Crystalline Solids, 2020, 529, 119775.	3.1	14
17	Defect structure and vibrational states in Eu-doped cubic gadolinium oxide. Physical Chemistry Chemical Physics, 2020, 22, 24498-24505.	2.8	6
18	Electronic Work Function of Carbon Nanocomposite Films According to Vacuum and Atmospheric Photoemission. Technical Physics, 2020, 65, 941-945.	0.7	0

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19	Carbon Bond Breaking under Ar⁺-Ion Irradiation in Dependence on sp Hybridization: Carâ€"Parrinello, Ehrenfest, and Classical Dynamics Study. Journal of Physical Chemistry A, 2020, 124, 9128-9132.	2.5	4
20	Enormous enhancement of p-orbital magnetism and band gap in the lightly doped carbyne. Physical Chemistry Chemical Physics, 2020, 22, 12996-13001.	2.8	1
21	Chemical instability of free-standing boron monolayers and properties of oxidized borophene sheets. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114082.	2.7	6
22	Kinetic selection of nonradiative excitation in photonic nanoparticles Gd₂O₃:Er. Physical Chemistry Chemical Physics, 2020, 22, 6818-6825.	2.8	9
23	Bi-doped silica glass: A combined XPS â€" DFT study of electronic structure and pleomorphic imperfections. Journal of Alloys and Compounds, 2020, 829, 154459.	5.5	23
24	Paramagnetic Mn Antisite Defects in Nanoceramics of Aluminumâ€"Magnesium Spinel. Physics of the Solid State, 2020, 62, 137-143.	0.6	4
25	Structural and electron-optical properties of transparent nanocrystalline MgAl2O4 spinel implanted with copper ions. Journal of Alloys and Compounds, 2020, 834, 154993.	5.5	9
26	Optical absorption and luminescence of oxygen-deficient centers in silica glass implanted with 30 keV RE-ions. AIP Conference Proceedings, 2020, , .	0.4	0
27	Impurity Mn2+ defects in MgAl2O4 nanoceramics. AIP Conference Proceedings, 2020, , .	0.4	1
28	Energy band gaps and excited states in Si QD/SiO_x/R_{yâ€Š}O_z (Râ€‰â€‰=â€‰â€‰Si, Al, Zr) suboxide superlattices. Journal of Physics Condensed Matter, 2019, 31, 415301.	1.8	2
29	Fabrication of (Y0.95Eu0.05)2O3 phosphors with enhanced properties by co-precipitation of layered rare-earth hydroxide. Journal of Alloys and Compounds, 2019, 805, 258-266.	5.5	21
30	Yb-doping effect on structure and lattice dynamics of Gd2O3. Journal of Physics Condensed Matter, 2019, 31, 385402.	1.8	3
31	Simulation of static and dynamic lattice properties of Yb-doped gadolinium oxide. Materials Today: Proceedings, 2019, 18, 520-524.	1.8	0
32	First-Principles Modeling of Atomic Structure and Chemical and Optical Properties of Î²-C3N4. Journal of Carbon Research, 2019, 5, 58.	2.7	1
33	Macroscopic Behavior and Microscopic Factors of Electron Emission from Chained Nanocarbon Coatings. Journal of Carbon Research, 2019, 5, 55.	2.7	3
34	Quasi-Dynamic Approach in Structural Disorder Analysis: An Ion-Beam-Irradiated Silica. Journal of Physical Chemistry C, 2019, 123, 29324-29330.	3.1	5
35	Bulk In2O3 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
36	Intrinsic Defectâ€Assisted UVâ€"Visible Energy Conversion in Gd 2 O 3 :Er Nanoparticles. Physica Status Solidi (B): Basic Research, 2019, 256, 1800356.	1.5	2

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37	Induced Quasi-Dynamic Disorder in a Structure of Rhenium Ion-Implanted Quartz Glass. Physics of the Solid State, 2019, 61, 1017-1022.	0.6	6
38	Energy Conversion in Gd2O3 Nanocrystals Doped with Er3+ Ions. Physics of the Solid State, 2019, 61, 763-767.	0.6	3
39	Effect of thickness and substrate type on the structure and low vacuum photoemission of carbyne-containing films. Carbon, 2019, 152, 388-395.	10.3	10
40	Local atomic configurations, energy structure, and optical properties of implantation defects in Gd-doped silica glass: An XPS, PL, and DFT study. Journal of Alloys and Compounds, 2019, 796, 77-85.	5.5	10
41	Modeling of electronic and optical properties of C3N4 within DFT frame. AIP Conference Proceedings, 2019, , .	0.4	0
42	Creation of Si quantum dots in a silica matrix due to conversion of radiation defects under pulsed ion-beam exposure. Physical Chemistry Chemical Physics, 2019, 21, 25467-25473.	2.8	5
43	Low temperature ESR of MgAl2O4 nanoceramics. AIP Conference Proceedings, 2019, , .	0.4	2
44	Luminescence at VUV-excitation of oxygen-deficient centers in silica glass implanted with 80 keV Re-ions. AIP Conference Proceedings, 2019, , .	0.4	1
45	Temperature dependence of electron emission of nano-carbon composites. AIP Conference Proceedings, 2019, , .	0.4	0
46	First-principle studies of optical properties of Be Zn1-O ternary mixed crystal. Optik, 2019, 178, 691-697.	2.9	10
47	Electronic Structure and Optical Absorption in Gdâ€Implanted Silica Glasses. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800522.	1.8	10
48	Down-conversion of UV radiation in erbium-doped gadolinium oxide nanoparticles. Applied Materials Today, 2018, 12, 34-42.	4.3	26
49	Interband optical transitions in Gd2O3: Er nanoparticles â€“ prospective system for energy convertors. IOP Conference Series: Materials Science and Engineering, 2018, 292, 012047.	0.6	10
50	Stability of boron-doped graphene/copper interface: DFT, XPS and OSEE studies. Applied Surface Science, 2018, 441, 978-983.	6.1	19
51	Excitons in strongly correlated oxide nanocrystals NicMg1-cO. Physica B: Condensed Matter, 2018, 536, 583-587.	2.7	0
52	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. Applied Surface Science, 2018, 436, 697-707.	6.1	63
53	Optical properties and energy band parameters of luminescent CaMoO₄:Bi ceramics. Journal of Physics: Conference Series, 2018, 1124, 051005.	0.4	1
54	Microstructure of luminescent MgAl2O4 nanoceramics. IOP Conference Series: Materials Science and Engineering, 2018, 443, 012014.	0.6	2

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55	Plasma Synthesis and XPS Attestation of Thin-Film Carbon Coatings with Predetermined sp-Hybridization. Physics of Atomic Nuclei, 2018, 81, 1660-1663.	0.4	3
56	The ways to improve the energy conversion efficiency in erbium-doped Gd₂O₃ nanoparticles. Journal of Physics: Conference Series, 2018, 1124, 041013.	0.4	0
57	Morphological and electron-optical properties of aluminium-magnesium spinel nanoceramics doped with gadolinium ions. AIP Conference Proceedings, 2018, , .	0.4	4
58	Photoelectron spectra and chemical bonding in chained carbon nanocomposites. AIP Conference Proceedings, 2018, , .	0.4	2
59	Up-conversion emission in Gd2O3 doped with RE-ions. AIP Conference Proceedings, 2018, , .	0.4	0
60	Revisiting the Entangled Chains of Polymer in the Carbyne Model. Brazilian Journal of Physics, 2018, 48, 571-575.	1.4	0
61	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
62	Atomic vibrations in alpha-quartz with silicon vacancies. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012043.	0.6	0
63	Upconversion Luminescence of Gd2O3 Nanocrystals Doped with Er3+ and Yb3+ Ions. Technical Physics Letters, 2018, 44, 622-625.	0.7	9
64	Atomic and electronic structure of graphene oxide/Cu interface. Thin Solid Films, 2018, 665, 99-108.	1.8	10
65	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
66	Atomic structure, electronic states, and optical properties of epitaxially grown Î²-Ga2O3 layers. Superlattices and Microstructures, 2018, 120, 90-100.	3.1	60
67	Electronâ€“electron interactions of the multi-Cooper-pairs in the 1D limit and their role in the formation of global phase coherence in quasi-one-dimensional superconducting nanowire arrays. Physica C: Superconductivity and Its Applications, 2018, 553, 33-37.	1.2	1
68	XPS-and-DFT analyses of the Pb 4f â€” Zn 3s and Pb 5d â€” O 2s overlapped ambiguity contributions to the final electronic structure of bulk and thin-film Pb-modulated zincite. Applied Surface Science, 2017, 405, 129-136.	6.1	30
69	Influence of dopants on the impermeability of graphene. Nanoscale, 2017, 9, 6145-6150.	5.6	10
70	Environment assisted photoconversion of luminescent surface defects in SiO 2 nanoparticles. Applied Surface Science, 2017, 420, 94-99.	6.1	5
71	Charge transfer transitions in optical spectra of NicMg1-cO oxides. Low Temperature Physics, 2017, 43, 520-525.	0.6	1
72	Characteristic features of optical absorption for Gd2O3 and NiO nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	10

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73	2D-ordered kinked carbyne chains: DFT modeling and Raman characterization. Carbon, 2017, 117, 271-278.	10.3	31
74	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO 2 -host by Pb-implantation: XPS-and-DFT characterization. Applied Surface Science, 2017, 400, 110-117.	6.1	28
75	Simulation of chemical bond distributions and phase transformation in carbon chains. Carbon, 2017, 114, 106-110.	10.3	18
76	Superconductivity in ultra-thin carbon nanotubes and carbyne-nanotube composites: An ab-initio approach. Carbon, 2017, 125, 509-515.	10.3	11
77	Photoluminescence of Zn2SiO4:Mn nanoparticles in ion-implanted silica films. AIP Conference Proceedings, 2017, , .	0.4	0
78	The MRO-accompanied modes of Re-implantation into SiO2-host matrix: XPS and DFT based scenarios. Journal of Alloys and Compounds, 2017, 728, 759-766.	5.5	28
79	Enhanced clustering tendency of Cu-impurities with a number of oxygen vacancies in heavy carbon-loaded TiO2 - the bulk and surface morphologies. Solid State Sciences, 2017, 71, 130-138.	3.2	5
80	Optical properties and energy parameters of Gd₂O₃and Gd₂O₃:Er nanoparticles. Journal of Physics: Conference Series, 2017, 917, 062001.	0.4	20
81	A theoretical quest for high temperature superconductivity on the example of low-dimensional carbon structures. Scientific Reports, 2017, 7, 15815.	3.3	7
82	The temperature behavior and mechanism of exciton luminescence in quantum dots. Physical Chemistry Chemical Physics, 2017, 19, 18721-18730.	2.8	13
83	UV absorption and effects of local atomic disordering in the nickel oxide nanoparticles. Journal of Luminescence, 2017, 183, 135-142.	3.1	14
84	Energy conversion of X-ray, ultraviolet and infrared radiation in Gd2O3 crystals doped with Er3+ ions. AIP Conference Proceedings, 2017, , .	0.4	8
85	Energy transfer in Gd₂O₃:Er nanoparticles applying as a down-conversion layer for solar cell. Journal of Physics: Conference Series, 2017, 917, 052015.	0.4	9
86	Luminescence of rare-earth ions and intrinsic defects in Gd₂O₃matrix. Journal of Physics: Conference Series, 2016, 741, 012089.	0.4	10
87	Photoluminescence of SiO2 nanocomposite films implanted with Si+ and C+ ions. AIP Conference Proceedings, 2016, , .	0.4	0
88	Photosensitive Defects in Gd2O3 â€“ Advanced Material for Solar Energy Conversion. Energy Procedia, 2016, 102, 144-151.	1.8	21
89	Disordering effect on electronic mechanism of thermal destruction of GeE'-centers in glassy GeO2. Journal of Non-Crystalline Solids, 2016, 441, 16-21.	3.1	1
90	Pleomorphic structural imperfections caused by pulsed Bi-implantation in the bulk and thin-film morphologies of TiO2. Applied Surface Science, 2016, 379, 223-229.	6.1	13

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91	Insight into the defectâ€“molecule interaction through the molecular-like photoluminescence of SiO2 nanoparticles. RSC Advances, 2016, 6, 93010-93015.	3.6	6
92	XPS and DFT study of pulsed Bi-implantation of bulk and thin-films of ZnOâ€”The role of oxygen imperfections. Applied Surface Science, 2016, 387, 1093-1099.	6.1	41
93	Ionâ€beam synthesis and thermal behaviour of luminescent Zn₂SiO₄ nanoparticles in silica glasses and films. Physica Status Solidi (B): Basic Research, 2016, 253, 2180-2184.	1.5	2
94	Ionization effects in Si/SiO2: Li, Na, K implanted structures under the impact of high-energy Î± particles. Journal of Surface Investigation, 2016, 10, 603-607.	0.5	2
95	Electronic structure and photoluminescence properties of Zn-ion implanted silica glass before and after thermal annealing. Journal of Non-Crystalline Solids, 2016, 432, 183-188.	3.1	20
96	Sn-loss effect in a Sn-implanted a-SiO2 host-matrix after thermal annealing: A combined XPS, PL, and DFT study. Applied Surface Science, 2016, 367, 320-326.	6.1	35
97	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
98	Photoluminescence of Gd2O3:Er â€“ based materials for conversion of solar energy. Journal of Physics: Conference Series, 2015, 643, 012057.	0.4	2
99	Octahedral conversion of a-SiO₂ host matrix by pulsed ion implantation. Physica Status Solidi (B): Basic Research, 2015, 252, 2185-2190.	1.5	19
100	Point defects and interference effects in electron emission of Si/SiO₂:Li,Na,K structures. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2672-2676.	1.8	1
101	Willemite photoluminescence in Zn-implanted silica glasses. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1355-1358.	0.8	4
102	Elastic moduli of alumina nanoceramics. Journal of Physics: Conference Series, 2015, 643, 012100.	0.4	3
103	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
104	Formation of Ge0 and GeO nanoclusters in Ge+-implanted SiO2/Si thin-film heterostructures under rapid thermal annealing. Applied Surface Science, 2015, 349, 780-784.	6.1	7
105	Radiation-Induced Centers in Lead Silicate Glasses Irradiated by Stationary and Pulsed Electron Beams. Russian Physics Journal, 2015, 58, 552-561.	0.4	0
106	Temperature dependence of photoluminescence of semiconductor quantum dots upon indirect excitation in a SiO2 dielectric matrix. Physics of the Solid State, 2015, 57, 1601-1606.	0.6	2
107	Photoluminescence of Si nanocrystals embedded in : Excitation/emission mapping. Physica Status Solidi (B): Basic Research, 2015, 252, 600-606.	1.5	19
108	Optical properties and structure of beryllium lead silicate glasses. , 2014, , .		2

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109	Structure and vibrations of different charge Ge impurity in Î±-quartz. , 2014, , .		0
110	Low energy electron emission from surface-interface states of SiO2:Ge films. , 2014, , .		0
111	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO2. Journal of Applied Physics, 2014, 115, .	2.5	16
112	Thermal ionization decay of Eâ€² centers in germanium dioxide. Physics of the Solid State, 2014, 56, 1967-1971.	0.6	1
113	Luminescence of intrinsic localized states in alkali silicate glasses excited by pulsed electron beam. Journal of Surface Investigation, 2014, 8, 726-733.	0.5	3
114	Modeling of lattice structure and dynamics of Ge doped Î±-quartz. Computational Materials Science, 2014, 95, 276-279.	3.0	2
115	Photoluminescence of implantation-induced defects in SiO2:Pb+ glasses. Journal of Surface Investigation, 2014, 8, 540-544.	0.5	4
116	Analytical temperature dependence of the photoluminescence of semiconductor quantum dots. Physics of the Solid State, 2014, 56, 635-638.	0.6	11
117	Defects and localized states in silica layers implanted with lead ions. Journal of Luminescence, 2014, 154, 425-429.	3.1	1
118	Photoluminescence of Se-related oxygen deficient center in ion-implanted silica films. Journal of Luminescence, 2013, 143, 498-502.	3.1	11
119	Vibrations induced by different charged oxygen vacancies in quartz-like GeO2. Computational Materials Science, 2013, 74, 12-16.	3.0	5
120	Interstitial-oxygen induced localized vibrational properties in alpha-quartz. Journal of Non-Crystalline Solids, 2013, 362, 69-72.	3.1	2
121	Synchrotron-Excited Photoluminescence Spectroscopy of Silicon- and Carbon-Containing Quantum Dots in Low Dimensional SiO$$_{2}$$ Matrices. Springer Series in Materials Science, 2013, , 89-117.	0.6	5
122	Interference effects in the UV(VUV)-excited luminescenceÂspectroscopy of thin dielectric films. Journal of Synchrotron Radiation, 2013, 20, 509-514.	2.4	5
123	Low-temperature photoluminescence of ion-implanted SiO2:Sn+ films and glasses. Journal of Surface Investigation, 2012, 6, 668-672.	0.5	14
124	Paramagnetic defects in gamma-irradiated Na/K-silicate glasses. Physics of the Solid State, 2012, 54, 1776-1784.	0.6	6
125	Mechanism of quantum dot luminescence excitation within implanted SiO₂:Si:C films. Journal of Physics Condensed Matter, 2012, 24, 045301.	1.8	7
126	Interplay of ballistic and chemical effects in the formation of structural defects for Sn and Pb implanted silica. Journal of Non-Crystalline Solids, 2012, 358, 3187-3192.	3.1	4

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127	Electron microscopic imaging of an ion beam mixed SiO₂/Si interface correlated with photoâ€•and cathodoluminescence. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1101-1108.	1.8	6
128	An intrinsic luminescence in binary lead silicate glasses. Optical Materials, 2012, 34, 807-811.	3.6	15
129	Electronic and vibrational states of oxygen and sulfur molecular ions inside implanted SiO2 films. Journal of Non-Crystalline Solids, 2011, 357, 1977-1980.	3.1	5
130	Configurations and local vibrations of differently charged oxygen vacancies in quartz crystal. Journal of Non-Crystalline Solids, 2011, 357, 1912-1915.	3.1	6
131	Electronic mechanism of thermal destruction of radiation-induced E'-centers in crystalline and glassy SiO2. Journal of Non-Crystalline Solids, 2011, 357, 1856-1859.	3.1	5
132	Pb+ implanted SiO2 probed by soft x-ray emission and absorption spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 3381-3384.	3.1	6
133	Stationary and nonstationary absorption in lead silicate glasses with short-range order inversion. Optical Materials, 2011, 33, 601-606.	3.6	5
134	Paramagnetic defects in neutron-irradiated phenakite crystals. Physics of the Solid State, 2010, 52, 691-699.	0.6	0
135	Statics and dynamics of excited states of oxygen-deficient centers in SiO2. Physics of the Solid State, 2010, 52, 1176-1187.	0.6	22
136	Photoelectron emission from implanted SiO2: Se+ films. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 201-205.	0.6	2
137	Low-temperature luminescence of lead silicate glass. Glass Physics and Chemistry, 2010, 36, 166-170.	0.7	7
138	The relation between static disorder and photoluminescence quenching law in glasses: A numerical technique. Journal of Luminescence, 2010, 130, 1721-1724.	3.1	9
139	Bulk and Surface Defects in Nanoporous SiO2Ceramic. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012066.	0.6	1
140	Localized electronic excitations in crystalline phenacite Be2SiO4. Physics of the Solid State, 2009, 51, 465-473.	0.6	9
141	Formation and electron-beam annealing of implantation defects in a thin-film Si-SiO2 heterostructure. Technical Physics, 2009, 54, 323-326.	0.7	4
142	Photosensitive defects in silica layers implanted with germanium ions. Journal of Non-Crystalline Solids, 2009, 355, 61-67.	3.1	16
143	Urbach rule in photoelectron emission from surface states of low-sized silica. Journal of Non-Crystalline Solids, 2009, 355, 1123-1127.	3.1	6
144	Time-resolved photoluminescence of implanted SiO2:Si+ films. Journal of Non-Crystalline Solids, 2009, 355, 1119-1122.	3.1	12

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145	Luminescence properties of nanostructured alumina ceramic. Radiation Measurements, 2008, 43, 341-344.	1.4	36
146	Characteristics of the electron-emission defects introduced in Siâ€“SiO2 structures by MeV electron irradiation. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 5027-5031.	1.4	5
147	Luminescence of modified nonbridging oxygen hole centers in silica and alkali silicate glasses. Glass Physics and Chemistry, 2008, 34, 709-715.	0.7	12
148	Photoemission and luminescence properties of quartz glass implanted with Cu+ ions. Journal of Surface Investigation, 2008, 2, 450-453.	0.5	10
149	Specific features of luminescence properties of nanostructured aluminum oxide. Physics of the Solid State, 2008, 50, 957.	0.6	34
150	Electron emission from excited states of Eâ€² centers in SiO2. Journal of Non-Crystalline Solids, 2007, 353, 590-593.	3.1	7
151	Specific features of photoluminescence of oxygen-deficient centers in irradiated silica glass. Journal of Luminescence, 2007, 122-123, 152-154.	3.1	3
152	Non-radiative relaxation of excited states of non-bridging oxygen hole centers in silica. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 789-792.	0.8	7
153	Neutron-induced molecular defect O 2 â^' in beryllium orthogermanate. Physics of the Solid State, 2007, 49, 839-844.	0.6	4
154	Specific features of luminescence of oxygen-deficient centres in nanostructured silicon dioxide. Radiation Measurements, 2007, 42, 891-893.	1.4	7
155	Pulsed cathodoluminescence of two-alkali sodium potassium silicate glasses. Glass Physics and Chemistry, 2006, 32, 28-32.	0.7	1
156	Extended Abbe diagram for dense flints. Glass Physics and Chemistry, 2006, 32, 136-140.	0.7	1
157	Photoelectron spectroscopy of Eâ€² centers in crystalline and glassy silicon dioxide. Physics of the Solid State, 2006, 48, 245-254.	0.6	13
158	Luminescent defects in nanostructured silica. Physics of the Solid State, 2006, 48, 1273-1279.	0.6	17
159	Magnetic Resonance of Metallic Nanoparticles in Vitreous Silicon Dioxide Implanted with Iron Ions. Physics of the Solid State, 2005, 47, 674.	0.6	2
160	Electronic Excitations and Defects in Nanostructural Al[sub 2]O[sub 3]. Physics of the Solid State, 2005, 47, 733.	0.6	11
161	Time-resolved luminescence of radiation defects in GaPO4 and AlPO4 crystals at VUV-excitation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 543, 239-243.	1.6	0
162	Analysis of the Nonselective Spectra of Photostimulated Electron Emission from the Surface of Irradiated Dielectrics. Journal of Applied Spectroscopy, 2005, 72, 407-412.	0.7	4

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163	Taking Account of the Nonstationarity in Analyzing the Optically Stimulated Electron Emission of Irradiated Dielectrics. Journal of Applied Spectroscopy, 2005, 72, 671-678.	0.7	3
164	Time-resolved spectroscopy of radiation defects in nanocrystalline germanium dioxide. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 343-346.	0.8	3
165	Electronic excitations and intrinsic defects in nanostructural Al2O3. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 351-354.	0.8	18
166	Method for the analysis of nonselective spectra of optically stimulated electron emission from irradiated dielectrics. Physica Status Solidi A, 2005, 202, 1935-1947.	1.7	16
167	Pulsed Cathodoluminescence and Vibrational Structure of Localized Electronic States in Alkali Silicate Glasses. Glass Physics and Chemistry, 2004, 30, 400-405.	0.7	2
168	The influence of structural factors on the optical absorption edge of dense flints. Glass Physics and Chemistry, 2004, 30, 487-491.	0.7	1
169	Vibrational structure of electronic states in alkali-silicate glasses. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2912-2915.	0.8	5
170	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
171	Spectroscopy of defects in irradiated alpo 4 and GaPO 4 crystals. Radiation Effects and Defects in Solids, 2002, 157, 751-754.	1.2	2
172	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
173	Nonradiative relaxation of photoexcited O 1 0 centers in glassy SiO2. Physics of the Solid State, 2002, 44, 1671-1675.	0.6	7
174	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
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