Dmitry A Zatsepin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photoemission study of the metal-insulator transition inCulr2S4. Physical Review B, 1997, 55, R15979-R15982.	1.1	88
2	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. Applied Surface Science, 2018, 436, 697-707.	3.1	63
3	Atomic structure, electronic states, and optical properties of epitaxially grown β-Ga2O3 layers. Superlattices and Microstructures, 2018, 120, 90-100.	1.4	60
4	Valence states of copper ions and electronic structure ofLiCu2O2. Physical Review B, 1998, 57, 4377-4381.	1.1	48
5	XPS and DFT study of pulsed Bi-implantation of bulk and thin-films of ZnO—The role of oxygen imperfections. Applied Surface Science, 2016, 387, 1093-1099.	3.1	41
6	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.	3.1	35
7	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. Applied Surface Science, 2017, 405, 129-136.	3.1	30
8	Electronic structure of magnetic moleculesV15:â€,â€,LSDA+U calculations, x-ray emissions, and photoelectron spectra. Physical Review B, 2003, 67, .	1.1	29
9	Electronic structure ofSr2RuO4: X-ray fluorescence emission study. Physical Review B, 1998, 57, 1558-1562.	1.1	28
10	XPS and DFT study of Sn incorporation into ZnO and TiO ₂ host matrices by pulsed ion implantation. Physica Status Solidi (B): Basic Research, 2015, 252, 1890-1896.	0.7	28
11	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.	3.1	28
12	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.	2.8	28
13	XPS analysis and valence band structure of a lowâ€dimensional SiO ₂ /Si system after Si ⁺ ion implantation. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1658-1661.	0.8	27
14	Study of the Structural Characteristics of 3d Metals Cr, Mn, Fe, Co, Ni, and Cu Implanted in ZnO and TiO ₂ —Experiment and Theory. Journal of Physical Chemistry C, 2014, 118, 28143-28151.	1.5	26
15	Functionalization of graphene and few-layer graphene films in an hydrofluoric acid aqueous solution. Nanotechnologies in Russia, 2014, 9, 51-59.	0.7	24
16	Bi-doped silica glass: A combined XPS – DFT study of electronic structure and pleomorphic imperfections. Journal of Alloys and Compounds, 2020, 829, 154459.	2.8	23
17	Mechanism for interfacial adhesion strength of an ion beam mixed Cu/polyimide with a thin buffer layer. Applied Physics Letters, 1999, 74, 522-524.	1.5	22
18	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.	1.5	20

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19	Octahedral conversion of a-SiO ₂ host matrix by pulsed ion implantation. Physica Status Solidi (B): Basic Research, 2015, 252, 2185-2190. Predicting the band gap of ternary oxides containing 3 <mml:math< td=""><td>0.7</td><td>19</td></mml:math<>	0.7	19
20	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msup><mml:mi>d</mml:mi><mml:mn>10</mml:mn></mml:msup> and 3 <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msup>d<mml:mn>0</mml:mn></mml:msup></mml:math> metals.	1.1	18
21	Physical Review B, 2012, 86, . X-ray emission spectra and electronic structure of Culr2S4 and Culr2Se4. Solid State Communications, 1998, 108, 235-239.	0.9	17
22	Electronic band gap reduction and intense luminescence in Co and Mn ion-implanted SiO2. Journal of Applied Physics, 2014, 115, .	1.1	16
23	Interaction of Cu3dand O2pstates inMg1â^'xCuxOsolid solutions with NaCl structure: X-ray photoelectron and x-ray emission study. Physical Review B, 2000, 62, 4922-4926.	1.1	15
24	An intrinsic luminescence in binary lead silicate glasses. Optical Materials, 2012, 34, 807-811.	1.7	15
25	Local Structure of Fe Impurity Atoms in ZnO: Bulk versus Surface. Journal of Physical Chemistry C, 2014, 118, 5336-5345.	1.5	15
26	Soft-x-ray-emission study of the influence ofLi+-doping, irradiation, and plastic deformation on CuO. Physical Review B, 1999, 59, 211-214.	1.1	14
27	Electronic structure of FeCr2S4and Fe0.5Cu0.5Cr2S4. Journal of Physics Condensed Matter, 2000, 12, 5411-5421.	0.7	14
28	Phase transformations in CuO caused by bombardment by He+ ions and by the action of spherical shock waves. Physics of the Solid State, 2002, 44, 1380-1387.	0.2	14
29	Structural defects and electronic structure of N-ion implanted TiO 2 : Bulk versus thin film. Applied Surface Science, 2015, 355, 984-988.	3.1	13
30	Pleomorphic structural imperfections caused by pulsed Bi-implantation in the bulk and thin-film morphologies of TiO2. Applied Surface Science, 2016, 379, 223-229.	3.1	13
31	Room temperature p-orbital magnetism in carbon chains and the role of group IV, V, VI, and VII dopants. Nanoscale, 2018, 10, 11186-11195.	2.8	13
32	Luminescence of modified nonbridging oxygen hole centers in silica and alkali silicate glasses. Glass Physics and Chemistry, 2008, 34, 709-715.	0.2	12
33	The formation of Ti–O tetrahedra and band gap reduction in SiO2 via pulsed ion implantation. Journal of Applied Physics, 2013, 113, 103704.	1.1	12
34	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.	1.1	12
35	Soft Xâ€ray emission spectroscopy of lowâ€dimensional SiO ₂ /Si interfaces after Si ⁺ ion implantation and ion beam mixing. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 743-747.	0.8	11
36	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.	2.8	10

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37	Electronic Structure and Optical Absorption in Gdâ€Implanted Silica Glasses. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800522.	0.8	10
38	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.	1.7	10
39	Nonthermal decomposition of nitrous oxide in a high-current pulsed discharge. Plasma Physics Reports, 2003, 29, 517-527.	0.3	9
40	Iron Nanoparticles in Amorphous SiO[sub 2]: X-ray Emission and Absorption Spectra. Physics of the Solid State, 2005, 47, 754.	0.2	9
41	Structural defects induced by Fe-ion implantation in TiO2. Journal of Applied Physics, 2014, 115, .	1.1	9
42	Structural and electron-optical properties of transparent nanocrystalline MgAl2O4 spinel implanted with copper ions. Journal of Alloys and Compounds, 2020, 834, 154993.	2.8	9
43	Ion-beam induced quasi-dynamic continual disorder in Bi-implanted Hongan silica glass. Journal of Non-Crystalline Solids, 2021, 563, 120818.	1.5	8
44	Quality assessment of GaN epitaxial films: Acidification scenarios based on XPS-and-DFT combined study. Applied Surface Science, 2021, 563, 150308.	3.1	8
45	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.	3.1	7
46	Pb+ implanted SiO2 probed by soft x-ray emission and absorption spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 3381-3384.	1.5	6
47	Electronic Properties of Carbyne Chains: Experiment and Theory. Journal of Physical Chemistry C, 2021, 125, 8268-8273.	1.5	6
48	VALENCE BAND SPECTRA OF BaCo1â^'xNixS2. Journal of Physics and Chemistry of Solids, 1998, 59, 1459-1467.	1.9	5
49	Sulphur Precipitation in Annealed Sulphur-Doped Nickel Studied by Fluorescent X-ray Emission. Materials Transactions, JIM, 1998, 39, 570-573.	0.9	5
50	X-ray emission study of the electronic structure of nanocrystalline Al2O3. Physics of the Solid State, 2004, 46, 2134-2138.	0.2	5
51	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
52	Ion irradiation induced reduction of Fe3+to Fe2+and Fe0in triethoxysilane films. Journal of Physics Condensed Matter, 2005, 17, 7023-7028.	0.7	5
53	Energy band structure and X-ray spectra of phenakite Be2SiO4. Physics of the Solid State, 2008, 50, 615-620.	0.2	5
54	Stationary and nonstationary absorption in lead silicate glasses with short-range order inversion. Optical Materials, 2011, 33, 601-606.	1.7	5

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55	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.	1.5	5
56	Quasi-Dynamic Approach in Structural Disorder Analysis: An Ion-Beam-Irradiated Silica. Journal of Physical Chemistry C, 2019, 123, 29324-29330.	1.5	5
57	Ion-beam synthesis of copper nanoparticles in transparent ceramics of aluminum-magnesium spinel. Vacuum, 2020, 175, 109243.	1.6	5
58	X-ray emission study of ion beam mixed Cu/Al films on polyimide. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 593-596.	0.9	4
59	The effect of high iron-ion implantation doses on the X-ray emission spectra of silicon. Physics of the Solid State, 2006, 48, 218-223.	0.2	4
60	Effect of high doses on the Si L 2,3 x-ray emission spectra of silicon implanted with iron ions under steady-state conditions. Physics of the Solid State, 2007, 49, 75-81.	0.2	4
61	X-ray emission and photoluminescence spectroscopy of nanostructured silica with implanted copper ions. Physics of the Solid State, 2008, 50, 2322-2326.	0.2	4
62	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.	1.5	4
63	Excitation energy dependence of SL2,3 X-ray fluorescent emission of BaNiS2 near the S 2p threshold. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 235, 191-194.	0.9	3
64	Structural ordering in a silica glass matrix under Mn ion implantation. Journal of Physics Condensed Matter, 2012, 24, 185402.	0.7	3
65	Luminescence of intrinsic localized states in alkali silicate glasses excited by pulsed electron beam. Journal of Surface Investigation, 2014, 8, 726-733.	0.1	3
66	Plasma Synthesis and XPS Attestation of Thin-Film Carbon Coatings with Predetermined sp-Hybridization. Physics of Atomic Nuclei, 2018, 81, 1660-1663.	0.1	3
67	Pulsed Cathodoluminescence and Vibrational Structure of Localized Electronic States in Alkali Silicate Glasses. Glass Physics and Chemistry, 2004, 30, 400-405.	0.2	2
68	Electronic Structure and Magnetic Properties of Iron Doped TiO ₂ (Rutile): XPS Measurements and CPA Calculations. Solid State Phenomena, 2014, 215, 28-34.	0.3	2
69	Photoelectron spectra and chemical bonding in chained carbon nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	2
70	Energy band gaps and excited states in Si QD/SiO _{<i>x</i>} /R _{<i>y</i>} O _{ <i>z</i>} (R  =  Si, Al, Zr) suboxide superlattices. Journal of Physics Condensed Matter, 20 415301.	0109731,	2
71	Intrinsic Defectâ€Assisted UV–Visible Energy Conversion in Gd 2 O 3 :Er Nanoparticles. Physica Status Solidi (B): Basic Research, 2019, 256, 1800356.	0.7	2
72	Local Environment of Fluorine Atoms in Sr[sub 2]Ca[sub n][sub – 1]Cu[sub n]O[sub 2][sub n][sub + Î]F[sub 2 ±][sub y] (n = 2, 3) High-Temperature Superconductors Grown under High Pressure. Physics of the Solid State, 2005, 47, 1211.	0.2	1

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73	Pulsed cathodoluminescence of two-alkali sodium potassium silicate glasses. Glass Physics and Chemistry, 2006, 32, 28-32.	0.2	1
74	Formation of the buffer layer of silicon suboxides SiO x in the Si/SiO2 low-dimensional heterosystem after Si+ ion implantation: Si L 2, 3 X-ray emission spectra. Physics of the Solid State, 2009, 51, 2241-2246.	0.2	1
75	Electronic structure of the Si-C-N amorphous films. Physics of the Solid State, 2011, 53, 1806-1810.	0.2	1
76	Formation of Mn-oxide clusters in Mn+-implanted SiO2 probed by soft X-ray emission and absorption spectroscopy. Vacuum, 2012, 86, 1615-1617.	1.6	1
77	Modification of MgAl2O4 Electron-Optic Properties by Pulsed Ion Beam. Physics of Atomic Nuclei, 2019, 82, 1558-1564.	0.1	1
78	Specific features of steady-state implantation of crystalline silicon with a molecular oxygen-nitrogen beam: Si L 2, 3 x-ray emission spectra. Physics of the Solid State, 2008, 50, 146-151.	0.2	0
79	Si+ ion implantation in silica and ion beam mixing in SiO2/Si interfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1398-1402.	0.8	0
80	Evidence of random distribution of carbon impurities in oxygen sites of zinc oxide. Physica B: Condensed Matter, 2018, 545, 172-175.	1.3	0