## Alexey Redkov

## List of Publications by Citations

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63<br/>papers378<br/>citations11<br/>h-index15<br/>g-index70<br/>ext. papers471<br/>ext. citations2.1<br/>avg, IF4.08<br/>L-index

#	Paper	IF	Citations
63	How Does Thermal Poling Produce Interstitial Molecular Oxygen in Silicate Glasses?. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17298-17307	3.8	37
62	Nanoprofiling of alkali-silicate glasses by thermal poling. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 409, 166-169	3.9	22
61	Nanoindentation of GaN/SiC thin films on silicon substrate. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 102, 151-156	3.9	21
60	Formation and self-arrangement of silver nanoparticles in glass via annealing in hydrogen: The model. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 376, 152-157	3.9	21
59	Plasma assisted molecular beam epitaxy of thin GaN films on Si(111) and SiC/Si(111) substrates: Effect of SiC and polarity issues. <i>Thin Solid Films</i> , <b>2018</b> , 646, 158-162	2.2	18
58	Modifications of poled silicate glasses under heat treatment. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 503-504, 279-283	3.9	17
57	Self-Assembled Silver <b>G</b> old Nanoisland Films on Glass for SERS Applications. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1700226	2.5	14
56	Low-Temperature Atmospheric Pressure Plasma-Enhanced CVD of Nanocomposite Coatings Molybdenum Disulfide (Filler)Bilicon Oxide (Matrix) \( \textit{Advanced Materials Interfaces}, \) <b>2017</b> , 4, 1700241	4.6	13
55	Plasmonic molecules via glass annealing in hydrogen. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 606	5	13
54	Studying Evolution of the Ensemble of Micropores in a SiC/Si Structure during Its Growth by the Method of Atom Substitution. <i>Physics of the Solid State</i> , <b>2019</b> , 61, 299-306	0.8	12
53	The Mechanism of Growth of GaN Films by the HVPE Method on SiC Synthesized by the Substitution of Atoms on Porous Si Substrates. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, P480-P486	2	12
52	Mechanisms and Peculiarities of Electric Field Imprinting in Glasses. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, E385-E390	3.9	11
51	Separation of IIIN/SiC epitaxial heterostructure from a Si substrate and their transfer to other substrate types. <i>Semiconductors</i> , <b>2017</b> , 51, 396-401	0.7	9
50	Stability of the surface of an elastically strained multicomponent film in a system with chemical reactions. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 2524-2531	0.8	9
49	Growing IIIIV Semiconductor Heterostructures on SiC/Si Substrates. <i>Technical Physics Letters</i> , <b>2019</b> , 45, 711-713	0.7	8
48	Pendeo-epitaxy of stress-free AlN layer on a profiled SiC/Si substrate. <i>Thin Solid Films</i> , <b>2016</b> , 606, 74-79	2.2	8
47	Morphological stability criterion for a spherical crystallization front in a multicomponent system with chemical reactions. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 2530-2536	0.8	8

## (2017-2018)

46	Properties of SiC Films Obtained by the Method of Substitution of Atoms on Porous Silicon. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, P158-P160	2	7	
45	Raman enhancement by individual silver hemispheroids. <i>Applied Surface Science</i> , <b>2017</b> , 397, 119-124	6.7	7	
44	Formation of composite materials based on glasses containing a reductant. <i>Physics of the Solid State</i> , <b>2012</b> , 54, 1875-1881	0.8	7	
43	Development of BurtonCabreraErank Theory for the Growth of a Non-Kossel Crystal via Chemical Reaction. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 2590-2601	3.5	6	
42	Crystal Structure, Raman Spectroscopy and Dielectric Properties of New Semiorganic Crystals Based on 2-Methylbenzimidazole. <i>Crystals</i> , <b>2019</b> , 9, 573	2.3	6	
41	Nanoscale self-arranged layers of silver nanoparticles in glass. <i>Chemical Physics Letters</i> , <b>2016</b> , 652, 235-7	2385	6	
40	Self-assembled silver nanoparticles in glass microstructured by poling for SERS application. <i>Current Applied Physics</i> , <b>2019</b> , 19, 1088-1095	2.6	5	
39	Spiral growth of a crystal due to chemical reaction. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1124, 02	20036	5	
38	Formation of silver fractal structures in ion-exchange glasses under poling. <i>Technical Physics</i> , <b>2015</b> , 60, 270-274	0.5	4	
37	Control of soda-lime glass surface crystallization with thermal poling. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 533, 119899	3.9	4	
36	Molecular dynamics simulation of the indentation of nanoscale films on a substrate. <i>Technical Physics Letters</i> , <b>2016</b> , 42, 639-643	0.7	4	
35	Effect of the nand p-type Si(100) substrates with a SiC buffer layer on the growth mechanism and structure of epitaxial layers of semipolar AlN and GaN. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 1966-1971	0.8	4	
34	SERS-Active Pattern in Silver-Ion-Exchanged Glass Drawn by Infrared Nanosecond Laser. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4	
33	Micro-Raman Spectroscopy Study of Glass-Ceramics with Gradient of Volume Fraction of Crystalline Phase. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2558-2560	3.8	4	
32	A new method for Synthesis of Epitaxial Films of Silicon Carbide on Sapphire Substrates (\( \mathbb{P}\)Al2O3). <i>Reviews on Advanced Materials Science</i> , <b>2018</b> , 57, 82-96	4.8	4	
31	A New Trigonal (Rhombohedral) SiC Phase: Ab Initio Calculations, a Symmetry Analysis and the Raman Spectra. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 2066-2071	0.8	4	
30	GaN growth via HVPE on SiC/Si substrates: growth mechanisms. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 917, 032028	0.3	3	
29	Effect of SiC buffer layer on GaN growth on Si via PA-MBE. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 917, 032038	0.3	3	

28	Separation of stress-free AlN/SiC thin films from Si substrate. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 741, 012034	0.3	3
27	Kinetics of ion-exchange-induced vitrification of glass-ceramics. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 3426-3431	3.8	3
26	Thermal poling of glasses to fabricate masks for ion exchange. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1695, 012107	0.3	2
25	Spiral growth of a multicomponent crystal from vapor of its components. <i>Journal of Crystal Growth</i> , <b>2020</b> , 548, 125845	1.6	2
24	Growth of faceted pores in a multi-component crystal by applying mechanical stress. <i>CrystEngComm</i> , <b>2020</b> , 22, 5280-5288	3.3	2
23	Epitaxial Growth of Bulk Semipolar AlN Films on Si(001) and Hybrid SiC/Si(001) Substrates. <i>Technical Physics Letters</i> , <b>2020</b> , 46, 539-542	0.7	2
22	Vacancy Growth of a Faceted Pore in a Crystal via Chernov Mechanism. <i>Mechanics of Solids</i> , <b>2020</b> , 55, 77-83	0.5	2
21	Dendritic structures by glass electrolysis: Studies and SERS capability. <i>Current Applied Physics</i> , <b>2021</b> , 24, 54-59	2.6	2
20	Growth of Faceted Pores in a Crystal by the Burton Labrera Erank Mechanism. <i>Physics of the Solid State</i> , <b>2019</b> , 61, 2392-2396	0.8	2
19	Investigation of the Physicomechanical Characteristics of Nanoscale Films by Nanoindentation. <i>Mechanics of Solids</i> , <b>2018</b> , 53, 481-488	0.5	2
18	Nucleation of CdSe thin films: the kinetic model. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1124, 0220	)4 <del>4</del> .3	2
17	Vacancy growth of monocrystalline SiC from Si by the method of self-consistent substitution of atoms. <i>Catalysis Today</i> , <b>2021</b> ,	5.3	2
16	Resonant properties of coupled silver hemispheroids. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 032503	1.1	1
15	Surface defects formation on strained thin films growing via chemical reaction: a model. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 643, 012005	0.3	1
14	Self-arrangement of periodic layers of silver nanoparticles in silicate glass. <i>Journal of Physics:</i> Conference Series, <b>2014</b> , 541, 012005	0.3	1
13	Molecular dynamics simulation of metal nanoislands growth. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 929, 012056	0.3	1
12	Molybdenum/tungsten disulfide solid solutions nanoparticles formation by aerosol-assisted CVD. <i>Solid State Sciences</i> , <b>2021</b> , 115, 106583	3.4	1
11	Dynamic Interaction of Steps and Nanoislands during Growth of a Multicomponent Crystal. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 4914-4926	3.5	1

## LIST OF PUBLICATIONS

10	Growth of a multicomponent crystal via Chernov∃ mechanism. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012039	0.3	1
9	Formation of composite SiC-C coatings on graphite via annealing Si-melt in CO. <i>Surface and Coatings Technology</i> , <b>2021</b> , 423, 127610	4.4	1
8	Modification of soda-lime silicate glass under corona poling in air and nitrogen atmosphere. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 554, 120599	3.9	О
7	Crystallization of K2O-TiO2-SiO2 glass below glass transition by poling. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 571, 121081	3.9	0
6	Is adsorbed water responsible for 2800-3000 cm band in Raman spectrum of inorganic matter?. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1236, 012001	0.3	
5	CW laser-initiated formation of nano-Si crystals in glass-metal nanostructures. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 4625-4631	3.8	
4	Formation and SERS efficiency of periodic metal-dielectric nanostructures. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1695, 012108	0.3	
3	Laser formation of nano-Si structures in glasses. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 0122	.4 <b>8</b> .3	
2	The model for in-plane and out-of-plane growth regimes of semiconductor nanowires. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012049	0.3	
1	SiC/Si as a New Platform for Growth of Wide-Bandgap Semiconductors. <i>Advanced Structured Materials</i> , <b>2022</b> , 335-373	0.6	