Alexey Redkov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63	378	11	15
papers	citations	h-index	g-index
70 ext. papers	471 ext. citations	2. 1 avg, IF	4.08 L-index

#	Paper	IF	Citations
63	SiC/Si as a New Platform for Growth of Wide-Bandgap Semiconductors. <i>Advanced Structured Materials</i> , 2022 , 335-373	0.6	
62	Dendritic structures by glass electrolysis: Studies and SERS capability. <i>Current Applied Physics</i> , 2021 , 24, 54-59	2.6	2
61	Molybdenum/tungsten disulfide solid solutions nanoparticles formation by aerosol-assisted CVD. <i>Solid State Sciences</i> , 2021 , 115, 106583	3.4	1
60	Dynamic Interaction of Steps and Nanoislands during Growth of a Multicomponent Crystal. <i>Crystal Growth and Design</i> , 2021 , 21, 4914-4926	3.5	1
59	Modification of soda-lime silicate glass under corona poling in air and nitrogen atmosphere. <i>Journal of Non-Crystalline Solids</i> , 2021 , 554, 120599	3.9	O
58	Vacancy growth of monocrystalline SiC from Si by the method of self-consistent substitution of atoms. <i>Catalysis Today</i> , 2021 ,	5.3	2
57	Formation of composite SiC-C coatings on graphite via annealing Si-melt in CO. <i>Surface and Coatings Technology</i> , 2021 , 423, 127610	4.4	1
56	Crystallization of K2O-TiO2-SiO2 glass below glass transition by poling. <i>Journal of Non-Crystalline Solids</i> , 2021 , 571, 121081	3.9	0
55	CW laser-initiated formation of nano-Si crystals in glass-metal nanostructures. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4625-4631	3.8	
54	Control of soda-lime glass surface crystallization with thermal poling. <i>Journal of Non-Crystalline Solids</i> , 2020 , 533, 119899	3.9	4
53	Development of Burton@abreraErank Theory for the Growth of a Non-Kossel Crystal via Chemical Reaction. <i>Crystal Growth and Design</i> , 2020 , 20, 2590-2601	3.5	6
52	Formation and SERS efficiency of periodic metal-dielectric nanostructures. <i>Journal of Physics: Conference Series</i> , 2020 , 1695, 012108	0.3	
51	Thermal poling of glasses to fabricate masks for ion exchange. <i>Journal of Physics: Conference Series</i> , 2020 , 1695, 012107	0.3	2
50	SERS-Active Pattern in Silver-Ion-Exchanged Glass Drawn by Infrared Nanosecond Laser. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
49	Spiral growth of a multicomponent crystal from vapor of its components. <i>Journal of Crystal Growth</i> , 2020 , 548, 125845	1.6	2
48	Growth of faceted pores in a multi-component crystal by applying mechanical stress. <i>CrystEngComm</i> , 2020 , 22, 5280-5288	3.3	2
47	Epitaxial Growth of Bulk Semipolar AlN Films on Si(001) and Hybrid SiC/Si(001) Substrates. <i>Technical Physics Letters</i> , 2020 , 46, 539-542	0.7	2

(2018-2020)

46	Vacancy Growth of a Faceted Pore in a Crystal via Chernov Mechanism. <i>Mechanics of Solids</i> , 2020 , 55, 77-83	0.5	2
45	Is adsorbed water responsible for 2800-3000 cml band in Raman spectrum of inorganic matter?. <i>Journal of Physics: Conference Series</i> , 2019 , 1236, 012001	0.3	
44	Growing IIII Semiconductor Heterostructures on SiC/Si Substrates. <i>Technical Physics Letters</i> , 2019 , 45, 711-713	0.7	8
43	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> , 2019 , 61, 299-306	0.8	12
42	Self-assembled silver nanoparticles in glass microstructured by poling for SERS application. <i>Current Applied Physics</i> , 2019 , 19, 1088-1095	2.6	5
41	Crystal Structure, Raman Spectroscopy and Dielectric Properties of New Semiorganic Crystals Based on 2-Methylbenzimidazole. <i>Crystals</i> , 2019 , 9, 573	2.3	6
40	Growth of Faceted Pores in a Crystal by the Burton Labrera Brank Mechanism. <i>Physics of the Solid State</i> , 2019 , 61, 2392-2396	0.8	2
39	Laser formation of nano-Si structures in glasses. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 0122	48 .3	
38	Growth of a multicomponent crystal via Chernov mechanism. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 012039	0.3	1
37	The model for in-plane and out-of-plane growth regimes of semiconductor nanowires. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 012049	0.3	
36	Kinetics of ion-exchange-induced vitrification of glass-ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3426-3431	3.8	3
35	Modifications of poled silicate glasses under heat treatment. <i>Journal of Non-Crystalline Solids</i> , 2019 , 503-504, 279-283	3.9	17
34	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> , 2018 , 7, P158-P160	2	7
33	Self-Assembled Silver G old Nanoisland Films on Glass for SERS Applications. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700226	2.5	14
32	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> , 2018 , 646, 158-162	2.2	18
31	A new method for Synthesis of Epitaxial Films of Silicon Carbide on Sapphire Substrates (FAl2O3). <i>Reviews on Advanced Materials Science</i> , 2018 , 57, 82-96	4.8	4
30	Investigation of the Physicomechanical Characteristics of Nanoscale Films by Nanoindentation. <i>Mechanics of Solids</i> , 2018 , 53, 481-488	0.5	2
29	Spiral growth of a crystal due to chemical reaction. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 02	20036	5

28	Nucleation of CdSe thin films: the kinetic model. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 02204	4 4 .3	2
27	A New Trigonal (Rhombohedral) SiC Phase: Ab Initio Calculations, a Symmetry Analysis and the Raman Spectra. <i>Physics of the Solid State</i> , 2018 , 60, 2066-2071	0.8	4
26	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> , 2018 , 7, P480-P486	2	12
25	Resonant properties of coupled silver hemispheroids. <i>Journal of Nanophotonics</i> , 2017 , 11, 032503	1.1	1
24	Mechanisms and Peculiarities of Electric Field Imprinting in Glasses. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E385-E390	3.9	11
23	Low-Temperature Atmospheric Pressure Plasma-Enhanced CVD of Nanocomposite Coatings Molybdenum Disulfide (Filler)Bilicon Oxide (Matrix) [] Advanced Materials Interfaces, 2017, 4, 1700241	4.6	13
22	Separation of IIIN/SiC epitaxial heterostructure from a Si substrate and their transfer to other substrate types. <i>Semiconductors</i> , 2017 , 51, 396-401	0.7	9
21	Raman enhancement by individual silver hemispheroids. <i>Applied Surface Science</i> , 2017 , 397, 119-124	6.7	7
20	Nanoindentation of GaN/SiC thin films on silicon substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 102, 151-156	3.9	21
19	GaN growth via HVPE on SiC/Si substrates: growth mechanisms. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032028	0.3	3
18	Effect of SiC buffer layer on GaN growth on Si via PA-MBE. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032038	0.3	3
17	Molecular dynamics simulation of metal nanoislands growth. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012056	0.3	1
16	Molecular dynamics simulation of the indentation of nanoscale films on a substrate. <i>Technical Physics Letters</i> , 2016 , 42, 639-643	0.7	4
15	Pendeo-epitaxy of stress-free AlN layer on a profiled SiC/Si substrate. <i>Thin Solid Films</i> , 2016 , 606, 74-79	2.2	8
14	Separation of stress-free AlN/SiC thin films from Si substrate. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012034	0.3	3
13	Micro-Raman Spectroscopy Study of Glass-Ceramics with Gradient of Volume Fraction of Crystalline Phase. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2558-2560	3.8	4
12	Nanoscale self-arranged layers of silver nanoparticles in glass. Chemical Physics Letters, 2016 , 652, 235-2	2385	6
11	Formation of silver fractal structures in ion-exchange glasses under poling. <i>Technical Physics</i> , 2015 , 60, 270-274	0.5	4

LIST OF PUBLICATIONS

10	How Does Thermal Poling Produce Interstitial Molecular Oxygen in Silicate Glasses?. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17298-17307	3.8	37	
9	Surface defects formation on strained thin films growing via chemical reaction: a model. <i>Journal of Physics: Conference Series</i> , 2015 , 643, 012005	0.3	1	
8	Nanoprofiling of alkali-silicate glasses by thermal poling. <i>Journal of Non-Crystalline Solids</i> , 2015 , 409, 166-169	3.9	22	
7	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> , 2015 , 57, 1966-1971	0.8	4	
6	Stability of the surface of an elastically strained multicomponent film in a system with chemical reactions. <i>Physics of the Solid State</i> , 2015 , 57, 2524-2531	0.8	9	
5	Self-arrangement of periodic layers of silver nanoparticles in silicate glass. <i>Journal of Physics:</i> Conference Series, 2014 , 541, 012005	0.3	1	
4	Plasmonic molecules via glass annealing in hydrogen. Nanoscale Research Letters, 2014, 9, 606	5	13	
3	Morphological stability criterion for a spherical crystallization front in a multicomponent system with chemical reactions. <i>Physics of the Solid State</i> , 2014 , 56, 2530-2536	0.8	8	
2	Formation and self-arrangement of silver nanoparticles in glass via annealing in hydrogen: The model. <i>Journal of Non-Crystalline Solids</i> , 2013 , 376, 152-157	3.9	21	
1	Formation of composite materials based on glasses containing a reductant. <i>Physics of the Solid State</i> , 2012 , 54, 1875-1881	0.8	7	