

Andrey S Orekhov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Size-induced effects in gallium selenide electronic structure: The influence of interlayer interactions. <i>Physical Review B</i> , 2011, 84, .	3.2	100
2	Quantified contribution of L_{12} and L_{21} precipitates to the strengthening of an aged Al-Mg-Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138776.	5.6	84
3	Shearing and rotation of L_{12} and L_{21} precipitates in an Al-Mg-Si alloy under tensile deformation: In-situ and ex-situ studies. <i>Acta Materialia</i> , 2021, 220, 117310.	7.9	46
4	Single-Walled Carbon Nanotube Reactor for Redox Transformation of Mercury Dichloride. <i>ACS Nano</i> , 2017, 11, 8643-8649.	14.6	38
5	Fe-Mo and Co-Mo Catalysts with Varying Composition for Multi-Walled Carbon Nanotube Growth. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700260.	1.5	26
6	Interfacial characteristics and cohesion mechanisms of linear friction welded dissimilar titanium alloys: Ti-5Al-2Sn-2Zr-4Mo-4Cr (Ti17) and Ti-6Al-2Sn-4Zr-2Mo (Ti6242). <i>Materials Characterization</i> , 2019, 158, 109942.	4.4	25
7	In-Situ TEM Stress Induced Martensitic Transformation in Ni _{50.8} Ti _{49.2} Microwires. <i>Shape Memory and Superelasticity</i> , 2019, 5, 154-162.	2.2	18
8	Study of the Q (Q)-phase precipitation in Al-Mg-Si-Cu alloys by quantification of atomic-resolution transmission electron microscopy images and atom probe tomography. <i>Journal of Materials Science</i> , 2019, 54, 7943-7952.	3.7	17
9	Optical properties and charge transfer effects in single-walled carbon nanotubes filled with functionalized adamantane molecules. <i>Carbon</i> , 2016, 109, 87-97.	10.3	15
10	The isolated flat silicon nanocrystals (2D structures) stabilized with perfluorophenyl ligands. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	12
11	Structural peculiarities of single crystal diamond needles of nanometer thickness. <i>Nanotechnology</i> , 2016, 27, 455707.	2.6	12
12	The Study of Nb ₃ Sn Phase Content and Structure Dependence on the Way of Ti Doping in Superconductors Produced by Bronze Route. <i>Physics Procedia</i> , 2012, 36, 1510-1515.	1.2	11
13	Highly oriented graphite produced by femtosecond laser on diamond. <i>Applied Physics Letters</i> , 2019, 114, 251903.	3.3	11
14	Microstructure of the Al-La-Ni-Fe system. <i>Crystallography Reports</i> , 2015, 60, 23-29.	0.6	10
15	Diamond platelets produced by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2016, 65, 13-16.	3.9	10
16	Rheology of amorphous olivine thin films characterized by nanoindentation. <i>Acta Materialia</i> , 2021, 219, 117257.	7.9	9
17	Towards ductilization of high strength 7XXX aluminium alloys via microstructural modifications obtained by friction stir processing and heat treatments. <i>Materialia</i> , 2021, 20, 101248.	2.7	9
18	Electron microscopy characterization of higher manganese silicide film structure on silicon. <i>Nanotechnologies in Russia</i> , 2016, 11, 610-616.	0.7	8

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19	Measuring the Local Thickness of Laser-Induced Graphitized Layer on Diamond Surface by Raman Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800686.	1.5	8
20	Comparison of the data of X-ray microtomography and fluorescence analysis in the study of bone-tissue structure. <i>Crystallography Reports</i> , 2012, 57, 700-707.	0.6	7
21	Mn ₄ Si ₇ -Si ^δ and Mn ₄ Si ₇ and Mn ₄ Si ₇ -Si ^δ -M photodiodes. <i>Technical Physics</i> , 2011, 56, 1423-1428.	0.7	6
22	Study of structural order in porphyrin-fullerene dyad ZnDHD6e monolayers by electron diffraction and atomic force microscopy. <i>Crystallography Reports</i> , 2013, 58, 927-933.	0.6	5
23	Study of doped higher manganese silicides crystals by transmission electron diffraction and electron backscatter diffraction. <i>Crystallography Reports</i> , 2014, 59, 78-87.	0.6	5
24	Stabilization of nanocrystalline 2D structures of silicon with perfluorophenyl ligands. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2014, 40, 1-4.	1.0	5
25	Field emission from single-walled carbon nanotubes modified by annealing and CuCl doping. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	5
26	Structure of thermoelectric films of higher manganese silicide on silicon according to electron microscopy data. <i>Semiconductors</i> , 2017, 51, 706-709.	0.5	5
27	Nanorolls Decorated with Nanotubes as a Novel Type of Nanostructures: Fast Anodic Oxidation of Amorphous Fe-Cr-B Alloy in Hydrophobic Ionic Liquid. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2025-2032.	8.0	5
28	Structure and mechanical properties of foils made of nanocrystalline beryllium. <i>Crystallography Reports</i> , 2016, 61, 549-557.	0.6	4
29	Detonation Nanodiamond-Assisted Carbon Nanotube Growth by Hot Filament Chemical Vapor Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700286.	1.5	3
30	Twin-jet electropolishing for damage-free transmission electron microscopy specimen preparation of metallic microwires. <i>Microscopy Research and Technique</i> , 2021, 84, 298-304.	2.2	3
31	On the growth of higher manganese silicide films on silicon. <i>Technical Physics</i> , 2010, 55, 874-876.	0.7	2
32	Electrophysical characteristics and structural parameters of metamorphic HEMT nanoheterostructures In _{0.7} Al _{0.3} As/In _{0.7} Ga _{0.3} As/In _{0.7} Al _{0.3} As containing superlattices with different numbers of periods in the metamorphic buffer. <i>Crystallography Reports</i> , 2014, 59, 425-429.	0.6	2
33	Design of 2D-nanocrystals in water: preparation, structure and functionalization. <i>Pure and Applied Chemistry</i> , 2018, 90, 833-844.	1.9	2
34	Crystallization of Thin Copper Films on Silica Substrate for Graphene Growth. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800685.	1.5	2
35	Relationship between (micro)structure and functional (photocatalytic and adsorption) properties of anatase-mordenite nanocomposite. <i>Research on Chemical Intermediates</i> , 2019, 45, 2869-2885.	2.7	2
36	High-resolution X-ray diffractometry and transmission electron microscopy as applied to the structural study of InAlAs/InGaAs/InAlAs multilayer transistor nanoheterostructures. <i>Journal of Surface Investigation</i> , 2016, 10, 495-509.	0.5	1

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37	The dependence of the microstructure and thermoelectric properties of germanium-doped higher manganese silicide crystals. <i>Semiconductors</i> , 2017, 51, 887-890.	0.5	1
38	About the Interface Between the Higher Manganese Silicide Film and Si (111)., 2006, , .		0
39	Investigation of the Magnesium Silicide – Mg ₂ Si Films. , 2006, , .		0
40	Microstructure of eutectic composites Ln _{1-x} Ln ₂ x MnO ₃ (Ln = Eu or Tb; Ln ₂ = Y or Ho) near the transition between the orthorhombic structure and hexagonal structures. <i>Crystallography Reports</i> , 2012, 57, 549-554.	0.6	0
41	SEM/EDS/EBSD study of the behaviour of Ge, Mo and Al impurities in complex-doped crystals of higher manganese silicide. <i>Journal of Physics: Conference Series</i> , 2013, 471, 012016.	0.4	0
42	Quasi-two-dimensional diamond crystals: Deposition from a gaseous phase and structural morphological properties. <i>Physics of the Solid State</i> , 2016, 58, 1458-1462.	0.6	0
43	Electron microscopy study of the microstructure of Ni-W substrate surface. <i>Crystallography Reports</i> , 2016, 61, 1002-1007.	0.6	0