

E V Ubyivovk

List of Publications by Year in descending order

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82
all docs

82
docs citations

82
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Second-Harmonic Generation in Nanocrystalline Silicon Nanoparticles. Nano Letters, 2017, 17, 3047-3053.	9.1	150
2	Enhanced strain rate sensitivity of Zr-based bulk metallic glasses subjected to high pressure torsion. Journal of Alloys and Compounds, 2018, 747, 595-602.	5.5	45
3	Resonant Silicon Nanoparticles for Enhanced Light Harvesting in Halide Perovskite Solar Cells. Advanced Optical Materials, 2018, 6, 1800576.	7.3	40
4	Motional Enhancement of Exciton Magnetic Moments in Zinc-Blende Semiconductors. Physical Review Letters, 2006, 97, 187403.	7.8	35
5	Observation of shear bands in the Vitreloy metallic glass subjected to HPT processing. Journal of Alloys and Compounds, 2019, 800, 58-63.	5.5	31
6	Dopant-stimulated growth of GaN nanotube-like nanostructures on Si(111) by molecular beam epitaxy. Beilstein Journal of Nanotechnology, 2018, 9, 146-154.	2.8	30
7	Optical study of GaAs quantum dots embedded into AlGaAs nanowires. Semiconductor Science and Technology, 2012, 27, 015009.	2.0	28
8	Growth and Characterization of GaP/GaPAs Nanowire Heterostructures with Controllable Composition. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900350.	2.4	28
9	Photoluminescence properties of GaAs nanowire ensembles with zincblende and wurtzite crystal structure. Physica Status Solidi - Rapid Research Letters, 2010, 4, 175-177.	2.4	27
10	Intrinsic luminescence and core structure of freshly introduced a-screw dislocations in n-GaN. Journal of Applied Physics, 2018, 123, .	2.5	26
11	Soft x-ray reflectometry, hard x-ray photoelectron spectroscopy and transmission electron microscopy investigations of the internal structure of TiO ₂ (Ti)/SiO ₂ /Si stacks. Science and Technology of Advanced Materials, 2012, 13, 015001.	6.1	24
12	Influence of Severe Plastic Deformation on Microstructure, Strength and Electrical Conductivity of Aged Al-0.4Zr(Wt.%) Alloy. Reviews on Advanced Materials Science, 2018, 55, 92-101.	3.3	23
13	Polylysine-grafted Au ₁₄₄ nanoclusters: birth and growth of a healthy surface-plasmon-resonance-like band. Chemical Science, 2017, 8, 3228-3238.	7.4	21
14	HPT-induced shear banding and nanoclustering in a TiNiCu amorphous alloy. Materials Letters, 2017, 209, 327-329.	2.6	21
15	Laser printing of optically resonant hollow crystalline carbon nanostructures from 1D and 2D metal-organic frameworks. Nanoscale, 2019, 11, 10155-10159.	5.6	18
16	Enhanced visible-light photocatalytic activity of core-shell oxide nanoparticles synthesized by wet chemical precipitation and atomic layer deposition. Applied Surface Science, 2020, 533, 147520.	6.1	18
17	Aluminum Nitride Transition Layer for Power Electronics Applications Grown by Plasma-Enhanced Atomic Layer Deposition. Materials, 2019, 12, 406.	2.9	17
18	Magnetic and dielectric studies of multiferroic CuO nanoparticles confined to porous glass. Journal of Magnetism and Magnetic Materials, 2012, 324, 2921-2925.	2.3	16

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19	Fluorescent Silver Nanoclusters in Condensed DNA. ChemPhysChem, 2013, 14, 3543-3550.	2.1	16
20	Stability of an Amorphous TiCuNi Alloy Subjected to High-Pressure Torsion at Different Temperatures. Advanced Engineering Materials, 2015, 17, 1728-1732.	3.5	16
21	Pre-martensitic phenomena in Ti40.7Hf9.5Ni44.8Cu5 shape memory alloy. Intermetallics, 2015, 67, 69-74.	3.9	16
22	Effect of diaminostilbene as a molecular linker on Ag nanoparticles: SERS study of aggregation and interparticle hot spots in various environments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 542-548.	4.7	14
23	Wurtzite AlGaAs Nanowires. Scientific Reports, 2020, 10, 735.	3.3	14
24	Synthesis and structure of poly-3,4-ethylenedioxythiophene film with the inclusions of palladium nanoparticles. Russian Journal of General Chemistry, 2010, 80, 1143-1148.	0.8	13
25	Interference of polariton waves in structures with wide GaAs/AlGaAs quantum wells. Physics of the Solid State, 2006, 48, 2100-2108.	0.6	12
26	Morphology vs. chemical composition of single Ni-doped hydrosilicate nanoscroll. Materials Letters, 2016, 171, 68-71.	2.6	12
27	Cluster structure in amorphous Ti-Ni-Cu alloys subjected to high-pressure torsion deformation. Journal of Alloys and Compounds, 2018, 749, 612-619.	5.5	12
28	HVPE growth of $\text{In- and } \mu\text{-Ga}_{2}\text{O}_{3}$ on patterned sapphire substrates. Journal of Physics: Conference Series, 2019, 1400, 055049.	0.4	12
29	Electrical levels of dislocation networks in p- and n-type Si. Journal of Physics: Conference Series, 2011, 281, 012010.	0.4	11
30	Nonradiative Energy Transfer in Hybrid Nanostructures with Varied Dimensionality. Semiconductors, 2019, 53, 1258-1261.	0.5	10
31	Spectroscopy of high-energy excitonic states in ultra-thick GaAs quantum wells with a perfect crystal structure. Journal of Luminescence, 2003, 102-103, 751-754.	3.1	9
32	A new insight into the mechanism of low-temperature Au-assisted growth of InAs nanowires. CrystEngComm, 2019, 21, 4707-4717.	2.6	9
33	Influence of High-Pressure Torsion and Accumulative High-Pressure Torsion on Microstructure and Properties of Zr-Based Bulk Metallic Glass Vit105. Metals, 2020, 10, 1433.	2.3	9
34	Recombination-related properties of a-screw dislocations in GaN: A combined CL, EBIC, TEM study. AIP Conference Proceedings, 2016, , .	0.4	8
35	Matched characterization of super-multiperiod superlattices. Journal Physics D: Applied Physics, 2020, 53, 455103.	2.8	8
36	The Role of Physical Models in the Description of Luminescence Kinetics of Hybrid Nanowires. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 119-124.	0.6	8

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37	Origin of the isothermal B2 \rightarrow B19' transformation in NiTi-based shape memory alloys. Journal of Alloys and Compounds, 2022, 902, 163570.	5.5	8
38	Multiple Shear Bands in Zr-Based Bulk Metallic Glass Processed by Severe Plastic Deformation. Defect and Diffusion Forum, 2018, 385, 319-324.	0.4	7
39	Photoluminescence and Transmission Electron Microscopy Methods for Characterization of Super-Multiperiod A3B5 Quantum Well Structures. Semiconductors, 2019, 53, 1914-1917.	0.5	7
40	Exciton mass increase in a GaAs/AlGaAs quantum well in a transverse magnetic field. Physical Review B, 2017, 95, .	3.2	7
41	Experimental determination of dead layer thickness for excitons in a wide GaAs/AlGaAs quantum well. Physics of the Solid State, 2009, 51, 1929-1934.	0.6	6
42	(In,Mn)As quantum dots: Molecular-beam epitaxy and optical properties. Semiconductors, 2013, 47, 1037-1040.	0.5	6
43	EPR, ESE, and pulsed ENDOR study of the nitrogen donors in 15R SiC grown under carbon-rich conditions. Physica Status Solidi (B): Basic Research, 2015, 252, 566-572.	1.5	6
44	Heterogeneous nucleation of catalyst-free InAs nanowires on silicon. Nanotechnology, 2017, 28, 065603.	2.6	6
45	Ni-functionalized submicron mesoporous silica particles as a sorbent for metal affinity chromatography. Journal of Chromatography A, 2017, 1513, 140-148.	3.7	6
46	Fabrication of composite nanoparticles based on VO ₂ with given structure and its optical and electrochemical performance. Journal of Physics and Chemistry of Solids, 2018, 121, 128-138.	4.0	6
47	Consolidation of the Amorphous Zr ₅₀ Cu ₅₀ Ribbons by High-Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900694.	3.5	6
48	Mechanisms of Dislocation Network Formation in Si(001) Hydrophilic Bonded Wafers. Solid State Phenomena, 0, 178-179, 253-258.	0.3	5
49	Growth of GaAs nanowire-graphite nanoplatelet hybrid structures. CrystEngComm, 2019, 21, 6165-6172.	2.6	5
50	Fabrication of nanopores in silicon nitride membrane by means of wet etching enhanced by focused helium ion beam irradiation. AIP Conference Proceedings, 2019, , .	0.4	5
51	Self-Organization of the Composition of Al _x Ga _{1-x} N Films Grown on Hybrid SiC/Si Substrates. Physics of the Solid State, 2021, 63, 442-448.	0.6	5
52	Laser printing of Au/Si core-shell nanoparticles. Journal of Physics: Conference Series, 2016, 741, 012119.	0.4	4
53	The structural properties of Zr-based bulk metallic glasses subjected to high pressure torsion at different temperatures. AIP Conference Proceedings, 2016, , .	0.4	4
54	Violation of the sequence of martensite crystals formation on cooling and their shrinking on heating during B2 \rightarrow B19' martensitic transformation in Ti ₄₀ .7Hf _{9.5} Ni _{44.8} Cu ₅ shape-memory alloy. Phase Transitions, 2017, 90, 289-298.	1.3	4

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55	Paramagnetic susceptibility of the Zr ₆₂ Cu ₂₂ Al ₁₀ Fe ₅ Dy ₁ metallic glass subjected to high-pressure torsion deformation. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 437, 67-71.	2.3	4
56	ENHANCEMENT OF THE LONGITUDINAL MAGNETIC MOMENT OF THE EXCITON DUE TO ITS MOTION. <i>International Journal of Modern Physics B</i> , 2007, 21, 1350-1357.	2.0	3
57	Reduction of exciton mass by uniaxial stress in GaAs/AlGaAs quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1537-1544.	1.5	3
58	Influence of low-frequency vibrations on the structure of amorphous Ti _{40.7} Hf _{9.5} Ni _{44.8} Cu ₅ alloy. <i>Materials Letters</i> , 2017, 209, 231-234.	2.6	3
59	High pressure torsion induced structural transformations in Ti- and Zr-based amorphous alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 447, 012052.	0.6	3
60	Extended core structure and luminescence of a-screw dislocations in GaN. <i>Journal of Physics: Conference Series</i> , 2019, 1190, 012006.	0.4	3
61	Fine core structure and spectral luminescence features of freshly introduced dislocations in Fe-doped GaN. <i>Journal of Applied Physics</i> , 2022, 131, 125707.	2.5	3
62	Magnetic properties of porous glass-CuO nanocomposites. <i>Physics of the Solid State</i> , 2012, 54, 1891-1895.	0.6	2
63	Regularities in the formation of dislocation networks on the boundary of bonded Si(001) wafers. <i>Semiconductors</i> , 2013, 47, 264-268.	0.5	2
64	Nano-architecture of metal-organic frameworks. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
65	Ag(O) Nanoparticles Stabilized with Poly(Ethylene Glycol)s Modified with Amino Groups: Formation and Properties in Solutions. <i>Colloid Journal</i> , 2019, 81, 226-234.	1.3	2
66	Correlation of structure and intrinsic luminescence of freshly introduced dislocations in GaN revealed by SEM and TEM. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
67	Variation in the structure of the amorphous NiTi-based alloys during mechanical vibrations. <i>Journal of Non-Crystalline Solids</i> , 2020, 542, 120101.	3.1	2
68	Comparison of GaAs nanowire growth seeded by Ag and Au colloidal nanoparticles on silicon. <i>Nanotechnology</i> , 2020, 31, 374005.	2.6	2
69	Tensile fracture behavior of a Zr-based bulk metallic glass subjected to HPT. <i>Letters on Materials</i> , 2016, 6, 322-326.	0.7	2
70	Structural and electrical properties of AlN layers grown on silicon by reactive RF magnetron sputtering. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
71	NEXAFS study of electronic and atomic structure of active layer in Al/indium tin oxide/TiO ₂ stack during resistive switching. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 274-284.	6.1	1
72	Fabrication of spherical GeSbTe nanoparticles by laser printing technique. <i>Journal of Physics: Conference Series</i> , 2017, 917, 062017.	0.4	1

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73	Atomic Force Microscopy Studies of Severely Deformed Amorphous TiNiCu Alloy. Defect and Diffusion Forum, 2018, 385, 200-205.	0.4	1
74	Growth of GaN Nanotubes and Nanowires on Au-Ni Catalysts. Technical Physics Letters, 2019, 45, 159-162.	0.7	1
75	Synthesis and characterization of PVP/PbI ₂ nanocomposites. Advanced Composites and Hybrid Materials, 2020, 3, 49-57.	21.1	1
76	Low-Temperature In-Induced Holes Formation in Native-SiO _x /Si(111) Substrates for Self-Catalyzed MBE Growth of GaAs Nanowires. Materials, 2020, 13, 3449.	2.9	1
77	Crystallization of amorphous Ti _{40.7} Hf _{9.5} Ni _{41.8} Cu ₈ alloy during the low-frequency mechanical vibrations at room temperature. Materials Letters, 2020, 275, 128084.	2.6	1
78	Increase of the Zeeman splitting of excitonic-polaritons due to their motion. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3928-3931.	0.8	0
79	Magnetic Resonance Study of p-Type 3C SiC Microparticles. Physica Status Solidi (B): Basic Research, 2020, 257, 2000306.	1.5	0
80	Low Temperature Growth of Au-Catalyzed InAs nanowires: Experiment and Theory. Physica Status Solidi - Rapid Research Letters, 0, , 2100401.	2.4	0
81	Increase of the longitudinal exciton magnetic momentum due to its movement. AIP Conference Proceedings, 2007, , .	0.4	0