Yuri Petrov

List of Publications by Year in descending order

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686830 752256 66 570 13 20 citations h-index g-index papers 595 66 66 66 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	Single Step Laser-Induced Deposition of Plasmonic Au, Ag, Pt Mono-, Bi- and Tri-Metallic Nanoparticles. Nanomaterials, 2022, 12, 146.	1.9	12
2	Direct observation of topological Hall effect in Co/Pt nanostructured films. Physical Review B, 2021, 103, .	1.1	18
3	Laser-Induced Deposition of Plasmonic Ag and Pt Nanoparticles, and Periodic Arrays. Materials, 2021, 14, 10.	1.3	10
4	Cathodoluminescence of carbon-related defects in hexagonal boron nitride. Journal of Physics: Conference Series, 2021, 2103, 012065.	0.3	0
5	Artificial Dense Lattices of Magnetic Skyrmions. Materials, 2020, 13, 99.	1.3	11
6	Hybrid Orthorhombic Carbon Flakes Intercalated with Bimetallic Au-Ag Nanoclusters: Influence of Synthesis Parameters on Optical Properties. Nanomaterials, 2020, 10, 1376.	1.9	5
7	Helium focused ion beam irradiation with subsequent chemical etching for the fabrication of nanostructures. Nanotechnology, 2020, 31, 215301.	1.3	5
8	Investigation of the encapsulated XIIIth century French Legendarium F-403 from the Library of Russian Academy of Science. Journal of Cultural Heritage, 2020, 46, 298-303.	1.5	3
9	Electroluminescence of Ta2O5 Films Formed by Molecular Layer Deposition. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 220-223.	0.2	0
10	The Proximity and Josephson Effects in Niobium Nitride–Aluminum Bilayers. Physics of the Solid State, 2019, 61, 1544-1548.	0.2	2
11	Impact of the Field of a Magnetic Force Microscope Probe on the Skyrmion State in a Modified Co/Pt Film with Perpendicular Anisotropy. Physics of the Solid State, 2019, 61, 1594-1598.	0.2	4
12	Secondary electron energy distribution from insulators in helium ion microscope. AIP Conference Proceedings, 2019, , .	0.3	2
13	Biodamage to Paper by Micromycetes under Experimental Conditions: A Study by Vibrational Spectroscopy Methods. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 354-359.	0.2	4
14	Investigating the Optical Properties of a Laser Induced 3D Selfâ€Assembled Carbon–Metal Hybrid Structure. Small, 2019, 15, e1900512.	5.2	6
15	Plasmonic carbon nanohybrids from laser-induced deposition: controlled synthesis and SERS properties. Journal of Materials Science, 2019, 54, 8177-8186.	1.7	13
16	Fabrication of nanopores in silicon nitride membrane by means of wet etching enhanced by focused helium ion beam irradiation. AIP Conference Proceedings, 2019, , .	0.3	5
17	Lorentz transmission electron microscopy of ferromagnetic nanodisks. AIP Conference Proceedings, 2019, , .	0.3	2
18	Diffraction from excitonic diffraction grating. Journal of Physics: Conference Series, 2019, 1368, 022013.	0.3	0

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19	Control over the Magnetic Properties of Co/Pt-based Multilayered Periodical Structures. Technical Physics, 2019, 64, 1584-1589.	0.2	1
20	Luminescence of SiO2 layers on silicon at various types of excitation. Journal of Luminescence, 2019, 205, 102-108.	1.5	29
21	Modeling and optimization of the excitonic diffraction grating. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1505.	0.8	1
22	Helium ion beam induced electron emission from insulating silicon nitride films under charging conditions. Nuclear Instruments & Methods in Physics Research B, 2018, 425, 11-17.	0.6	6
23	Effect of helium ion beam treatment on wet etching of silicon dioxide. Nuclear Instruments & Methods in Physics Research B, 2018, 418, 94-100.	0.6	4
24	Interface-Assisted Synthesis of Single-Crystalline ScF ₃ Microtubes. Inorganic Chemistry, 2018, 57, 9779-9781.	1.9	8
25	Formation of Fe and Fe ₂ O ₃ Microspirals via Interfacial Synthesis. Particle and Particle Systems Characterization, 2018, 35, 1800186.	1.2	6
26	Magnetic Force Microscopy of Nanostructured Co/Pt Multilayer Films with Perpendicular Magnetization. Materials, 2017, 10, 1034.	1.3	11
27	Design Rules for Oxygen Evolution Catalysis at Porous Iron Oxide Electrodes: A 1000â€Fold Current Density Increase. ChemSusChem, 2017, 10, 3644-3651.	3.6	27
28	Helium ion beam enhanced local etching of silicon nitride. AIP Conference Proceedings, 2016, , .	0.3	2
29	The interaction of gaseous SiF4 and HF with surface of aqueous solution of LaCl3 leading to the formation of the LaF3–SiO2·nH2O nanocomposite and microtubes on its basis. Russian Journal of General Chemistry, 2016, 86, 2689-2692.	0.3	7
30	Structural and electrical properties of AlN layers grown on silicon by reactive RF magnetron sputtering. AlP Conference Proceedings, 2016 , , .	0.3	1
31	The modification of the structure of multilayer Co/Pt films by the irradiation with a focused helium ion beam. AIP Conference Proceedings, $2016, \ldots$	0.3	4
32	Artificial dense lattice of magnetic bubbles. Applied Physics Letters, 2016, 109, 042406.	1.5	44
33	Low-voltage scanning electron microscopy study of lampbrush chromosomes and nuclear bodies in avian and amphibian oocytes. Scientific Reports, 2016, 6, 36878.	1.6	7
34	NEXAFS study of electronic and atomic structure of active layer in Al/indium tin oxide/TiO ₂ stack during resistive switching. Science and Technology of Advanced Materials, 2016, 17, 274-284.	2.8	1
35	Plasmon-enhanced electron scattering in nanostructured thin metal films revealed by low-voltage scanning electron microscopy. AIP Conference Proceedings, 2016, , .	0.3	1
36	Ion-beam-assisted spatial modulation of inhomogeneous broadening of a quantum well resonance: excitonic diffraction grating. Optics Letters, 2016, 41, 104.	1.7	10

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37	Secondary Electron Generation in the Helium Ion Microscope: Basics and Imaging. Nanoscience and Technology, 2016, , 119-146.	1.5	11
38	Experimental study of angular and frequency spectra of laser pulse diffraction on a planar periodic nanostructure of gold V antennas. Quantum Electronics, 2015, 45, 914-916.	0.3	0
39	Effect of irradiation by He ⁺ and Ga ⁺ ions on the 2Dâ€exciton susceptibility of InGaAs/GaAs quantumâ€well structures. Physica Status Solidi (B): Basic Research, 2015, 252, 1950-1954.	0.7	9
40	Scanning reflection ion microscopy in a helium ion microscope. Beilstein Journal of Nanotechnology, 2015, 6, 1125-1137.	1.5	10
41	Direct laser writing of Î⅓-chips based on hybrid C–Au–Ag nanoparticles for express analysis of hazardous and biological substances. Lab on A Chip, 2015, 15, 1742-1747.	3.1	23
42	Energy filtration of secondary and backscattered electrons by the method of the retarding potential in scanning electron and ion microscopy. Journal of Surface Investigation, 2015, 9, 196-202.	0.1	7
43	Annealing effect: Controlled modification of the structure, composition and plasmon resonance of hybrid Au–Ag/C nanostructures. Applied Surface Science, 2015, 353, 11-16.	3.1	8
44	Laser-induced transformation of supramolecular complexes: approach to controlled formation of hybrid multi-yolk-shell Au-Ag@a-C:H nanostructures. Scientific Reports, 2015, 5, 12027.	1.6	25
45	Effect of helium ion beam treatment on the etching rate of silicon nitride. Nuclear Instruments & Methods in Physics Research B, 2015, 349, 90-95.	0.6	9
46	Facile synthesis of LaF3 strained 2D nanoparticles and microtubes at solution–gas interface. Journal of Fluorine Chemistry, 2015, 180, 117-121.	0.9	22
47	Nanomodification of SnO2 films by doping with additives of copper and gold chlorides. Glass Physics and Chemistry, 2014, 40, 617-622.	0.2	1
48	Waveguide fabrication in lithium-niobo-phosphate glasses by high repetition rate femtosecond laser: route to non-equilibrium material's states. Optical Materials Express, 2014, 4, 1197.	1.6	10
49	Transport of Massless Dirac Fermions in Non-topological Type Edge States. Scientific Reports, 2014, 4, 7578.	1.6	18
50	Orbital quantization in a system of edge Dirac fermions in nanoperforated graphene. JETP Letters, 2013, 98, 214-218.	0.4	13
51	Charge-controlled fixation of DNA molecules on silicon surface and electro-physical properties of Au–DNA–Si interface. Applied Surface Science, 2013, 267, 224-228.	3.1	7
52	Diagnostics of \hat{I}^3 -irradiated Si-SiO2 structures by the cathodoluminescence method. Semiconductors, 2013, 47, 1711-1714.	0.2	7
53	Low-Temperature Transformations of Protonic Forms of Layered Complex Oxides HLnTiO4and H2Ln2Ti3O10(Ln = La, Nd). Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	11
54	Laser-induced synthesis of metallic silver-gold nanoparticles encapsulated in carbon nanospheres for surface-enhanced Raman spectroscopy and toxins detection. Applied Physics Letters, 2013, 103, .	1.5	21

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55	Secondary Electrons Energy Distribution In Helium Ion Microscope And Contrast Manipulation. Microscopy and Microanalysis, 2012, 18, 824-825.	0.2	0
56	Electron-excited luminescence of SiO2 layers on silicon. Physics of the Solid State, 2012, 54, 1149-1152.	0.2	3
57	Preparation of oxidized PbSeO3 films from PbSe films. Glass Physics and Chemistry, 2012, 38, 240-244.	0.2	5
58	Growth of whisker nanocrystals in the (1 \hat{a}^{*} x)In2O3 \hat{A} xSeO2 system. Glass Physics and Chemistry, 2012, 38, 339-346.	0.2	2
59	Secondary electron emission spectra and energy selective imaging in helium ion microscope. Proceedings of SPIE, 2011, , .	0.8	16
60	Metallization of DNA on silicon surface. Journal of Nanoparticle Research, 2011, 13, 3633-3641.	0.8	13
61	Scanning helium ion microscope: Distribution of secondary electrons and ion channeling. Journal of Surface Investigation, 2010, 4, 792-795.	0.1	30
62	Charge state of luminescence centers in the Si-SiO2 structures subjected to sequential implantation with silicon and carbon ions. Semiconductors, 2008, 42, 1515-1518.	0.2	2
63	Electroluminescence of Si-SiO2 structures subjected to sequential ion implantation with silicon and carbon. Physics of the Solid State, 2006, 48, 966-968.	0.2	1
64	The electroluminescence of SiO2 layers with excess silicon. Technical Physics Letters, 2004, 30, 40-41.	0.2	2
65	The effect of annealing on the electroluminescence of SiO2 layers with excess silicon. Technical Physics Letters, 2004, 30, 85-87.	0.2	4
66	Soft Chemistry Synthesis of Complex Oxides Using Protonic Form of Titanates HLnTiO ₄ (Ln=La, Nd). Solid State Phenomena, 0, 194, 213-216.	0.3	8