

Ivan Karbovnyk

List of Publications by Year in descending order

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66
papers

680
citations

516710

16
h-index

610901

24
g-index

67
all docs

67
docs citations

67
times ranked

470
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational properties of LaPO ₄ nanoparticles in mid- and far-infrared domain. Journal of Applied Physics, 2012, 112, .	2.5	55
2	Random nanostructured metallic films for environmental monitoring and optical sensing: experimental and computational studies. Nanoscale Research Letters, 2015, 10, 151.	5.7	40
3	Effect of Radiation on the Electrical Properties of PEDOT-Based Nanocomposites. Nanoscale Research Letters, 2016, 11, 84.	5.7	39
4	Cathodoluminescence characterization of polystyrene-BaZrO ₃ hybrid composites. Low Temperature Physics, 2016, 42, 597-600.	0.6	37
5	Silicon carbide nanowires: synthesis and cathodoluminescence. Physica Status Solidi (B): Basic Research, 2009, 246, 2806-2808.	1.5	35
6	Luminescence, vibrational and XANES studies of AlN nanomaterials. Radiation Measurements, 2007, 42, 708-711.	1.4	34
7	Positron Annihilation Lifetime Spectroscopy Insight on Free Volume Conversion of Nanostructured MgAl ₂ O ₄ Ceramics. Nanomaterials, 2021, 11, 3373.	4.1	33
8	Studies of CdI ₂ -Bi ₃ microstructures with optical methods, atomic force microscopy and positron annihilation spectroscopy. Materials Science-Poland, 2014, 32, 391-395.	1.0	29
9	Influence of CsCl addition on the nanostructured voids and optical properties of 80GeS ₂ -20Ga ₂ S ₃ glasses. Optical Materials, 2016, 59, 39-42.	3.6	29
10	New Interference Technique for Determination of Low Loss Material Permittivity in the Extremely High Frequency Range. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3005-3012.	4.7	24
11	Cadmium clusters in CdI ₂ layered crystals: the influence on the optical properties. Journal of Physics Condensed Matter, 2007, 19, 395015.	1.8	23
12	Impedance characterization of Cr ³⁺ , Y ³⁺ and Zr ⁴⁺ activated forsterite nanoceramics synthesized by sol-gel method. Ceramics International, 2016, 42, 8501-8504.	4.8	23
13	Nonlinear optical properties of silver nanoparticles prepared in Ag doped borate glasses. Physica B: Condensed Matter, 2014, 449, 31-35.	2.7	22
14	CsPbCl ₃ nanocrystals dispersed in the Rb _{0.8} Cs _{0.2} Cl matrix studied by far-infrared spectroscopy. Solid State Communications, 2009, 149, 593-597.	1.9	18
15	Optical, infrared and electron-microscopy studies of metallic clusters in layered crystals. Radiation Measurements, 2007, 42, 851-854.	1.4	16
16	Modification of the optical spectra of mixed K ₂ Co _x Ni _{1-x} (SO ₄) ₂ ·6H ₂ O crystals. Journal of Applied Spectroscopy, 2009, 76, 116-120.	0.7	16
17	A new method of growing K ₂ CoxNi _{1-x} (SO ₄) ₂ ·6H ₂ O (x=0; 0.4; 0.8; 1) mixed crystals and their spectral investigation. Journal of Crystal Growth, 2009, 311, 4704-4707.	1.5	15
18	Interferometry technique for refractive index measurements at subcentimeter wavelengths. Microwave and Optical Technology Letters, 2011, 53, 1193-1196.	1.4	15

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19	Microstructure of Ag ₂ BI ₄ (B = Ag, Cd) superionics studied by SEM, impedance spectroscopy and fractal dimension analysis. Journal of Physics Condensed Matter, 2008, 20, 474211.	1.8	14
20	Optical and Vibrational Spectra of CsCl-Enriched GeS ₂ -Ga ₂ S ₃ Glasses. Nanoscale Research Letters, 2016, 11, 132.	5.7	14
21	Evolution of Free Volumes in Polycrystalline BaGa ₂ O ₄ Ceramics Doped with Eu ³⁺ Ions. Crystals, 2021, 11, 1515.	2.2	14
22	Far IR spectra of Ag ₂ CdI ₄ at temperature range 10–420 K: complementary experimental and first-principle theoretical study. European Physical Journal B, 2009, 70, 443-447.	1.5	12
23	FTIR Studies of Silicon Carbide 1D-Nanostructures. Materials Science Forum, 2015, 821-823, 261-264.	0.3	12
24	BiI ₃ nanoclusters in melt-grown CdI ₂ crystals studied by optical absorption spectroscopy. Physica B: Condensed Matter, 2013, 413, 12-14.	2.7	11
25	Long-term evolution of luminescent properties in CdI ₂ crystals. Low Temperature Physics, 2016, 42, 594-596.	0.6	9
26	Modeling and quantitative analysis of connectivity and conductivity in random networks of nanotubes. Eastern-European Journal of Enterprise Technologies, 2017, 5, 4-12.	0.5	8
27	Thermal, Electrical and Optical Studies of Phase Transitions in Ag ₂ CdI ₄ Solid Electrolyte. Radiation Effects and Defects in Solids, 2003, 158, 157-161.	1.2	7
28	Phase Transitions in Ag ₂ CdI ₄ : Electrical Studies. Ferroelectrics, 2005, 317, 15-18.	0.6	7
29	Melting of tetrahedrally bonded semiconductors: an anomaly of the phase diagram of GaN?. Journal of Crystal Growth, 2019, 505, 5-9.	1.5	7
30	Computer simulations of nanotube networks in dielectric matrix. , 2016, , .		6
31	LabVIEW-Based Automated Setup for Interferometric Refractive Index Probing. SLAS Technology, 2020, 25, 286-292.	1.9	6
32	Multicomponent positronium lifetime modes to nanoporous study of MgO-Al ₂ O ₃ ceramics. , 2016, , .		4
33	Multicolor photon emission from organic thin films on different substrates. Radiation Measurements, 2016, 90, 38-42.	1.4	4
34	Highly luminescent and electrically conductive hybrid material. Applied Nanoscience (Switzerland), 2022, 12, 665-671.	3.1	4
35	Impedance analysis of PEDOT:PSS/CNT composites below percolation threshold. Applied Nanoscience (Switzerland), 2022, 12, 1263-1266.	3.1	4
36	First-principles simulations of the electronic density of states for superionic Ag ₂ CdI ₄ crystals. Solid State Ionics, 2011, 188, 31-35.	2.7	3

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37	Formation of microtubes in CdI ₂ crystals doped with BiI ₃ . Technical Physics Letters, 2013, 39, 463-465.	0.7	3
38	Simulation of the tunnelling conductivity in nanotube/dielectric composite. , 2017, , .		3
39	Electrical Properties at Low Temperatures of PEDOT-based Nanocomposites. , 2018, , .		3
40	Effect of elastic deformation and the magnetic field on the electrical conductivity of p-Si crystals. Applied Nanoscience (Switzerland), 2018, 8, 885-890.	3.1	3
41	Computer simulation of field-controlled percolation in 3D system of straight nanotubes. , 2018, , .		3
42	Extended Positron Trapping Defects in the Eu ³⁺ -Doped BaGa ₂ O ₄ Ceramics Studied by Positron Annihilation Lifetime Method. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	3
43	Features of changes in the electrical resistance of p-Si crystals under the action of an elastic one-axial mechanical load and a magnetic field. Applied Nanoscience (Switzerland), 2019, 9, 1775-1779.	3.1	2
44	Effect of non-resonant polarized laser irradiation on the formation of nanostructured organic thin films. Applied Nanoscience (Switzerland), 2019, 9, 809-814.	3.1	2
45	Time dependence of the luminescence intensity in CdBr ₂ : AgCl, PbBr ₂ crystals under N ₂ -laser excitation at room temperature. Materials Science-Poland, 2014, 32, 604-609.	1.0	1
46	Influence of crystallization front direction on the Mg-related impurity centers incorporation in bulk GaN:Mg grown by HNPS method. Optical Materials, 2016, 58, 491-496.	3.6	1
47	Parametric modeling of conductivity in percolating nanotube network. , 2017, , .		1
48	Analysis of Crystallization Processes on the Surface of Ge-Ga-Se Glasses for Electronics and IR Photonics. , 2018, , .		1
49	Modified Positron Annihilation Lifetime Spectroscopy Method for Investigation of Nanomaterials with Advanced Porosity. , 2018, , .		1
50	SEM and Electrical Studies of Carbon Nanotube Reinforced PEDOT:PSS Layers. , 2019, , .		1
51	Structural Properties of Polycrystalline BaGa ₂ O ₄ Ceramics Doped with Eu ³⁺ Ions. , 2019, , .		1
52	Alignment of luminescent liquid crystalline molecules on modified PEDOT:PSS substrate. Applied Nanoscience (Switzerland), 2020, 10, 5063-5068.	3.1	1
53	Morphology and Optical Properties of Nanostructures Formed in Non-Stoichiometric CdI ₂ Crystals. Ukrainian Journal of Physics, 2018, 63, 816.	0.2	1
54	Using LabVIEW in automated measurements of refractive indices in optical range. , 2016, , .		0

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55	Random Nanocomposites: Fundamental Properties and Application for Harmful Agents Detection. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 455-457.	0.3	0
56	Modeling the conductivity of nanotube networks. , 2017, , .		0
57	Microstructure of Modified Cu _{0.4} Ni _{0.4} Co _{0.4} Mn _{1.8} O ₄ Ceramics for Temperature Sensor Electronics. , 2018, , .		0
58	Microstructural Peculiarities Caused by Annealing in the Temperature-Sensitive Thick Films Based on Cu _{0.1} Ni _{0.1} Co _{1.6} Mn _{1.2} O ₄ Ceramics. , 2019, , .		0
59	Multichannel Positron Trapping Models for Describing Transformation of Free Volumes in Nanostructured Functional Materials. , 2019, , .		0
60	Degradation Kinetics in Cu _{0.1} Ni _{0.1} Co _{1.6} Mn _{1.2} O ₄ -based ceramic materials. , 2019, , .		0
61	Study of Crystallization Ability of Ge-Ga-S Glasses by X-ray Diffraction and Calorimetric Methods. , 2019, , .		0
62	Nanostructured Ceramic-Based Sensors for Portable Electronic System of Microclimate Monitoring. , 2019, , .		0
63	Mechanisms of Thermally-induced Degradation Kinetics in Thick Films Based on Cu _{0.1} Ni _{0.1} Co _{1.6} Mn _{1.2} O ₄ Ceramics. , 2019, , .		0
64	Topology and Fractal Dimension of Nanocomposite Metal-Dielectric Films. , 2019, , .		0
65	Cost Efficient CCD-based Spectrometer with Microprocessor/PC Control. , 2019, , .		0
66	Modeling of Percolation Effect in Arrays of Curved Nanotubes. , 2022, , .		0