

Oleksandr I Datsenko

List of Publications by Year in descending order

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papers

548
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686830

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docs citations

47
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of anharmonicity and interlayer interaction on Raman spectra in mono- and few-layer MoS ₂ : A computational study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 136, 114999.	1.3	9
2	Metamorphic InAs/InAlAs/InGaAs quantum dots: Establishing the limit for indium composition in InGaAs buffers. <i>Microelectronic Engineering</i> , 2022, 263, 111840.	1.1	0
3	MoS ₂ monolayer quantum dots on a flake: Efficient sensitization of exciton and trion photoluminescence via resonant nonradiative energy and charge transfers. <i>Applied Surface Science</i> , 2022, 601, 154209.	3.1	4
4	InAs/InGaAs quantum dots confined by InAlAs barriers for enhanced room temperature light emission: Photoelectric properties and deep levels. <i>Microelectronic Engineering</i> , 2021, 238, 111514.	1.1	8
5	Lateral photoconductivity of GeSn alloys. , 2021, , .		0
6	Trion Binding Energy Variation on Photoluminescence Excitation Energy and Power during Direct to Indirect Bandgap Crossover in Monolayer and Few-Layer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 17806-17819.	1.5	22
7	Influence of hydrogen plasma treatment on secondary phases in CZTS thin films for energy harvesting. <i>Materials Today Communications</i> , 2021, 28, 102664.	0.9	7
8	Hexagram bi-layer MoS ₂ flake: The impact of polycrystallinity and strains on the exciton and trion photoluminescence. <i>Surfaces and Interfaces</i> , 2021, 26, 101343.	1.5	6
9	Defect levels and interface space charge area responsible for negative photovoltage component in InAs/GaAs quantum dot photodetector structure. <i>Microelectronic Engineering</i> , 2020, 230, 111367.	1.1	4
10	Raman mapping of MoS ₂ at Cu ₂ ZnSnS ₄ /Mo interface in thin film. <i>Solar Energy</i> , 2020, 205, 154-160.	2.9	25
11	Photoelectric and deep level study of metamorphic InAs/InGaAs quantum dots with GaAs confining barriers for photoluminescence enhancement. <i>Semiconductor Science and Technology</i> , 2020, 35, 095022.	1.0	3
12	Exciton and trion in few-layer MoS ₂ : Thickness- and temperature-dependent photoluminescence. <i>Applied Surface Science</i> , 2020, 515, 146033.	3.1	79
13	Near-infrared lateral photoresponse in InGaAs/GaAs quantum dots. <i>Semiconductor Science and Technology</i> , 2020, 35, 055029.	1.0	14
14	Metamorphic InAs/InGaAs Quantum Dot Structures: Photoelectric Properties and Deep Levels. <i>Springer Proceedings in Physics</i> , 2020, , 319-336.	0.1	1
15	Red-shifted photoluminescence and gamma irradiation stability of ϵ -micromorph ϵ -(nc-Si/SiO ₂)/DLC down-converter anti-reflection coatings. <i>Diamond and Related Materials</i> , 2019, 100, 107578.	1.8	8
16	Control of secondary phases and disorder degree in Cu ₂ ZnSnS ₄ films by sulfurization at varied subatmospheric pressures. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109915.	3.0	33
17	Defect influence on in-plane photocurrent of InAs/InGaAs quantum dot array: long-term electron trapping and Coulomb screening. <i>Nanotechnology</i> , 2019, 30, 305701.	1.3	15
18	Kinetics peculiarities of photovoltage in vertical metamorphic InAs/InGaAs quantum dot structures. <i>Semiconductor Science and Technology</i> , 2019, 34, 075025.	1.0	6

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19	Effect of Nucleic Acids on Oxidation and Photoluminescence of Porous Silicon. Journal of Nano- and Electronic Physics, 2019, 11, 03005-1-03005-5.	0.2	2
20	Secondary phases in Cu ₂ ZnSnS ₄ films obtained by spray pyrolysis at different substrate temperatures and Cu contents. Materials Letters, 2018, 216, 173-175.	1.3	25
21	Thickness-dependent structural parameters of kesterite Cu ₂ ZnSnSe ₄ thin films for solar cell absorbers. Materials Letters, 2018, 225, 82-84.	1.3	8
22	Interband Photoconductivity of Metamorphic InAs/InGaAs Quantum Dots in the 1.3–1.55- μ m Window. Nanoscale Research Letters, 2018, 13, 103.	3.1	14
23	Optical windows for head tissues in near-infrared and short-wave infrared regions: Approaching transcranial light applications. Journal of Biophotonics, 2018, 11, e201800141.	1.1	128
24	Investigation of Mechanisms of Potassium and Cesium-137 Uptake by Plants with Optical and Gamma Spectrometries in the Field under Water-Stressed Conditions. Ukrainian Journal of Physics, 2018, 63, 238.	0.1	0
25	Deep levels in metamorphic InAs/InGaAs quantum dot structures with different composition of the embedding layers. Semiconductor Science and Technology, 2017, 32, 125001.	1.0	19
26	Comparative Study of Photoelectric Properties of Metamorphic InAs/InGaAs and InAs/GaAs Quantum Dot Structures. Nanoscale Research Letters, 2017, 12, 335.	3.1	17
27	Bipolar Effects in Photovoltage of Metamorphic InAs/InGaAs/GaAs Quantum Dot Heterostructures: Characterization and Design Solutions for Light-Sensitive Devices. Nanoscale Research Letters, 2017, 12, 559.	3.1	7
28	Optical transparency windows for head tissues in near and short-wave infrared regions. , 2017, , .		2
29	Photoluminescence of porous silicon as an indicator of its interaction with nucleic acids. EPJ Applied Physics, 2016, 76, 30401.	0.3	3
30	Intensity-dependent nonlinearity of the lateral photoconductivity in InGaAs/GaAs dot-chain structures. Journal of Applied Physics, 2016, 119, 184303.	1.1	16
31	Mechanistic interpretation of the varying selectivity of Cesium-137 and potassium uptake by radish (Raphanus sativus L.) under field conditions near Chernobyl. Journal of Environmental Radioactivity, 2016, 152, 85-91.	0.9	7
32	Characterization of Functional Layers of CdTe Crystals Subjected to Different Surface Treatments. IEEE Transactions on Nuclear Science, 2015, 62, 428-432.	1.2	7
33	Photoelectric properties of the metamorphic InAs/InGaAs quantum dot structure at room temperature. Journal of Applied Physics, 2015, 117, 214312.	1.1	16
34	Comparison of semi-insulating InAlAs and InP:Fe for InP-based buried-heterostructure QCLs. Journal of Crystal Growth, 2015, 425, 360-363.	0.7	4
35	Application of Luminescent Methods to the Diagnosis of the Functional State of Single-Celled Algae in Liquid Media**. Journal of Applied Spectroscopy, 2014, 81, 450-456.	0.3	1
36	Growth and Functional Characteristics of Chlamydomonas Actinochloris Culture at the Presence of the Surface Petrol Film. Hydrobiological Journal, 2012, 48, 71-78.	0.2	2

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37	Luminexcence Control of the Microwave Irradiation Impact on Green Algae. Hydrobiological Journal, 2011, 47, 91-99.	0.2	0
38	Effect of Microwave Irradiation on Growth and Photoluminescence Efficiency of the Green Alga Chlamydomonas actinochloris. Hydrobiological Journal, 2010, 46, 99-104.	0.2	0
39	Evolution of photoluminescence and chemical composition of the nanostructured silicon in water solutions. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3818-3821.	0.8	3
40	Effect of ultrasound treatment on the optical properties of C60 fullerene films. Chemical Physics Letters, 2008, 467, 77-79.	1.2	1
41	Ellipsometric studies of porous silicon. Thin Solid Films, 1999, 342, 230-237.	0.8	11
42	Evolution of the porous silicon sample properties in the atmospheric ambient. Journal of Luminescence, 1999, 81, 263-270.	1.5	6
43	Effect of boron diffusion doping of silicon on the micromechanical and luminescent properties of porous layers. Thin Solid Films, 1998, 312, 202-206.	0.8	3
44	Structure and optical parameters of the system with porous silicon: ellipsometric study. , 1998, , .		2
45	Light-activated photoluminescence of porous silicon. , 1998, 3359, 227.		0
46	Formation of Intensive Photoluminescence in Porous Silicon. Materials Research Society Symposia Proceedings, 1995, 405, 193.	0.1	0