

Oleksandr Melnichuk

List of Publications by Year in descending order

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34
papers

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1478505

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34
all docs

34
docs citations

34
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropy of the ZnO single crystal reflectivity in the region of residual rays. Physica Status Solidi (B): Basic Research, 1995, 188, 823-831.	1.5	79
2	Photoluminescence, conductivity and structural study of terbium doped ZnO films grown on different substrates. Materials Science in Semiconductor Processing, 2019, 94, 51-56.	4.0	12
3	Surface plasmon-phonon polaritons of hexagonal zinc oxide. Technical Physics, 1998, 43, 52-55.	0.7	9
4	Investigation of undoped and Tb-doped ZnO films on Al ₂ O ₃ substrate by infrared reflection method. Thin Solid Films, 2019, 673, 136-140.	1.8	9
5	Transformations in the photoluminescent, electrical and structural properties of Tb ³⁺ and Eu ³⁺ co-doped ZnO films under high-temperature annealing. Journal of Luminescence, 2020, 217, 116739.	3.1	9
6	The mechanism of formation of interface barriers in ZnO:Mn ceramics. SN Applied Sciences, 2020, 2, 1.	2.9	7
7	Optical, structural and electrical characterization of pure ZnO films grown on p-type Si substrates by radiofrequency magnetron sputtering in different atmospheres. Semiconductor Science and Technology, 2020, 35, 095034.	2.0	6
8	Influence of annealing on luminescence and energy transfer in ZnO multilayer structure co-doped with Tb and Eu. Thin Solid Films, 2019, 692, 137634.	1.8	5
9	"White Supercontinuum" and "Conical Emission" of Femtosecond Filaments in Birefringent Media. Ukrainian Journal of Physics, 2016, 61, 1053-1060.	0.2	5
10	Optical and Electrical Properties of Tb-doped ZnO/SiO ₂ Structure in the Infrared Spectral Interval. Ukrainian Journal of Physics, 2019, 64, 434.	0.2	5
11	Effect of plasmon-phonon interaction on the infrared reflection spectra of Mg _x Zn _{1-x} O/Al ₂ O ₃ structures. Journal of Materials Science: Materials in Electronics, 2020, 31, 7539-7546.	2.2	4
12	Raman scattering, emission and crystalline phase evolutions in Nd-doped Si-rich HfO ₂ :N films. Journal of Materials Science: Materials in Electronics, 2021, 32, 17473-17481.	2.2	4
13	Phonon and Plasmon-Phonon Interactions in ZnO Single Crystals and Thin Films. , 2020, , 163-199.		4
14	Correlation between Photoluminescent and Photoelectrical Properties of Mn-Doped ZnO. Ukrainian Journal of Physics, 2018, 63, 660.	0.2	4
15	<title>Guided-wave polaritons in ZnO/6H-SiC structures</title>. , 2004, , .		3
16	Spectroscopic characterization of phase transformation in Ge-rich Al ₂ O ₃ films grown by magnetron co-sputtering. Materials Letters, 2020, 277, 128306.	2.6	3
17	Thermally Stimulated Evolution of Optical and Structural Properties of Germanium-Doped Alumina Films. ECS Transactions, 2020, 97, 81-90.	0.5	3
18	Optical properties of ternary alloys MgZnO in infrared spectrum. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2018, 21, 417-423.	1.0	3

#	ARTICLE	IF	CITATIONS
19	Influence of anisotropy on the dispersion of surface plasmon-phonon polaritons in silicon carbide. <i>Physics of the Solid State</i> , 1998, 40, 582-585.	0.6	2
20	The peculiarities of light absorption and light emission in Cu-doped Y-stabilized ZrO ₂ nanopowders. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 965-973.	3.1	2
21	Investigation of ZnO single crystals subjected to a high uniform magnetic field in the IR spectral range. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2008, 11, 6-10.	1.0	2
22	Mn Distribution in ZnO:Mn Ceramics: Influence of Sintering Process and Thermal Annealing. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 103001.	1.8	2
23	Reflectance spectra of a 6H-SiC single crystal placed in a strong homogeneous magnetic field. <i>Journal of Engineering Physics and Thermophysics</i> , 2009, 82, 1211-1218.	0.6	1
24	Effect of strong magnetic field on surface polaritons in ZnO. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2010, 13, 314-320.	1.0	1
25	Phonon-Polariton Excitations in MgZnO/6H-SiC Structures. <i>Ukrainian Journal of Physics</i> , 2020, 65, 162.	0.2	1
26	Comparative analysis of reflection and surface polariton spectroscopies as methods for the determination of intrinsic plasma frequencies in semiconductors. <i>Journal of Applied Spectroscopy</i> , 1992, 56, 291-295.	0.7	0
27	Use of surface excitations in semiconductor materials for modulation of IR radiation. , 1995, , .		0
28	IR reflection spectra of the ZnO/Al ₂ O ₃ structure. , 1998, , .		0
29	Effect of plasmon-phonon excitations on the coefficient of reflection from the surface of hexagonal silicon carbide. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 89, 344-348.	0.9	0
30	Effect of the plasmon-phonon coupling anisotropy on the reflection coefficient of polar semiconductors ZnO and SiC-6H. , 0, , .		0
31	Whether Ge-Rich ZrO ₂ and Ge-Rich HfO ₂ Materials Have Similar Reaction on Annealing Treatment?. <i>ECS Transactions</i> , 2020, 97, 49-60.	0.5	0
32	New Paramagnetic Center in Cu-Doped Y-Stabilized ZrO ₂ . <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 033002.	1.8	0
33	Surface polariton excitation in ZnO films deposited using ALD. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2015, 18, 422-427.	1.0	0
34	Surface polaritons in optical-anisotropic Mg _x Zn _{1-x} O/6H-SiC structures. <i>Functional Materials</i> , 2020, 27, .	0.1	0