

Oleksandr Melnichuk

List of Publications by Year in descending order

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docs citations

34
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Whether Ge-Rich ZrO ₂ and Ge-Rich HfO ₂ Materials Have Similar Reaction on Annealing Treatment?. ECS Transactions, 2020, 97, 49-60.	0.5	0
5	Thermally Stimulated Evolution of Optical and Structural Properties of Germanium-Doped Alumina Films. ECS Transactions, 2020, 97, 81-90.	0.5	3
6	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
7	The mechanism of formation of interface barriers in ZnO:Mn ceramics. SN Applied Sciences, 2020, 2, 1.	2.9	7
8	New Paramagnetic Center in Cu-Doped Y-Stabilized ZrO ₂ . ECS Journal of Solid State Science and Technology, 2020, 9, 033002.	1.8	0
9	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
10	Phonon and Plasmon-Phonon Interactions in ZnO Single Crystals and Thin Films. , 2020, , 163-199.		4
11	Phonon-Polariton Excitations in MgZnO/6H-SiC Structures. Ukrainian Journal of Physics, 2020, 65, 162.	0.2	1
12	Surface polaritons in optical-anisotropic Mg _x Zn _{1-x} O/6H-SiC structures. Functional Materials, 2020, 27, .	0.1	0
13	Mn Distribution in ZnO:Mn Ceramics: Influence of Sintering Process and Thermal Annealing. ECS Journal of Solid State Science and Technology, 2020, 9, 103001.	1.8	2
14	The peculiarities of light absorption and light emission in Cu-doped Y-stabilized ZrO ₂ nanopowders. Applied Nanoscience (Switzerland), 2019, 9, 965-973.	3.1	2
15	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
16	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
17	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
18	Optical and Electrical Properties of Tb-ZnO/SiO ₂ Structure in the Infrared Spectral Interval. Ukrainian Journal of Physics, 2019, 64, 434.	0.2	5

#	ARTICLE	IF	CITATIONS
19	Optical properties of ternary alloys MgZnO in infrared spectrum. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2018, 21, 417-423.	1.0	3
20	Correlation between Photoluminescent and Photoelectrical Properties of Mn-Doped ZnO. Ukrainian Journal of Physics, 2018, 63, 660.	0.2	4
21	"White Supercontinuum" and "Conical Emission" of Femtosecond Filaments in Birefringent Media. Ukrainian Journal of Physics, 2016, 61, 1053-1060.	0.2	5
22	Surface polariton excitation in ZnO films deposited using ALD. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2015, 18, 422-427.	1.0	0
23	Effect of strong magnetic field on surface polaritons in ZnO. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2010, 13, 314-320.	1.0	1
24	Reflectance spectra of a 6H-SiC single crystal placed in a strong homogeneous magnetic field. Journal of Engineering Physics and Thermophysics, 2009, 82, 1211-1218.	0.6	1
25	Investigation of ZnO single crystals subjected to a high uniform magnetic field in the IR spectral range. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2008, 11, 6-10.	1.0	2
26	<title>Guided-wave polaritons in ZnO/6H-SiC structures</title>. , 2004, , .		3
27	Effect of plasmon-phonon excitations on the coefficient of reflection from the surface of hexagonal silicon carbide. Journal of Experimental and Theoretical Physics, 1999, 89, 344-348.	0.9	0
28	Influence of anisotropy on the dispersion of surface plasmon-phonon polaritons in silicon carbide. Physics of the Solid State, 1998, 40, 582-585.	0.6	2
29	Surface plasmon-phonon polaritons of hexagonal zinc oxide. Technical Physics, 1998, 43, 52-55.	0.7	9
30	IR reflection spectra of the ZnO/Al ₂ O ₃ structure. , 1998, , .		0
31	Use of surface excitations in semiconductor materials for modulation of IR radiation. , 1995, , .		0
32	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
33	Comparative analysis of reflection and surface polariton spectroscopies as methods for the determination of intrinsic plasma frequencies in semiconductors. Journal of Applied Spectroscopy, 1992, 56, 291-295.	0.7	0
34	Effect of the plasmon-phonon coupling anisotropy on the reflection coefficient of polar semiconductors ZnO and SiC-6H. , 0, , .		0