

E Sheregii

List of Publications by Year in descending order

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papers

418
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840776

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docs citations

74
times ranked

322
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetophonon resonance on the phonon frequency difference in quasi-free-standing graphene. <i>Physical Review B</i> , 2021, 103, .	3.2	0
2	The tuning of the plasmon resonance of the metal nanoparticles in terms of the SERS effect. <i>Colloid and Polymer Science</i> , 2018, 296, 1029-1037.	2.1	49
3	The metal-matrix composites reinforced by the fullerenes. <i>AIP Advances</i> , 2018, 8, 085317.	1.3	11
4	Cyclotron and combined phonon-assisted resonances in the double-well heterostructure $\text{In}_{0.65}\text{Ga}_{0.35}\text{As}/\text{In}_{0.52}\text{Al}_{0.48}\text{As}$ at megagauss magnetic fields. <i>Physical Review B</i> , 2018, 98, .	3.2	0
5	Surface-enhanced Raman scattering and Plasmon effect for enzymatic bionanocomplexes characterization. <i>EPJ Web of Conferences</i> , 2017, 133, 05001.	0.3	1
6	Landau levels and shallow donor states in GaAs/AlGaAs multiple quantum wells at megagauss magnetic fields. <i>Physical Review B</i> , 2017, 95, .	3.2	3
7	Gold-coated polycarbonate grating-based substrates for Raman spectroscopy. , 2017, , .		1
8	Sensors element on base of the relief Au-coated GaAs grating. , 2017, , .		2
9	Study of plasma frequency for $\text{Al}_{1-x}\text{In}_x$ alloys with different concentrations. <i>Ukrainian Journal of Physical Optics</i> , 2017, 18, 225.	13.0	1
10	Optical properties of colloidal gold nanoparticles implemented into a subsurface layer of fused silica. <i>Ukrainian Journal of Physical Optics</i> , 2017, 18, 102.	13.0	2
11	High-temperature stability of electron transport in semiconductors with strong spin-orbital interaction. <i>Physical Review B</i> , 2016, 93, .	3.2	10
12	Interface quality and interface modes in the double quantum wells structure. <i>Surface and Interface Analysis</i> , 2016, 48, 498-500.	1.8	0
13	Role of electron-phonon interaction in the temperature dependence of the phonon mode frequency in II-VI compound alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 510-513.	0.8	0
14	Gold Nanoparticles Like A Matrix For Covalent Immobilization Of Cholesterol Oxidase – Application For Biosensing. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 2289-2296.	0.6	5
15	Two-dimensional materials as inorganic analogues of graphene: methods of preparation, optical properties, and applications. , 2015, , .		0
16	Influence of the electron-phonon interaction on the temperature dependence of the phonon mode frequency in the II-VI compound solid solutions. <i>Journal of Applied Physics</i> , 2015, 117, 025702.	2.5	2
17	Surface enhanced Raman scattering as a probe of the cholesterol oxidase enzyme. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	8
18	The stochastic model for ternary and quaternary alloys: Application of the Bernoulli relation to the phonon spectra of mixed crystals. <i>Journal of Applied Physics</i> , 2014, 115, 114903.	2.5	3

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19	Defect study in molecular beam epitaxy-grown HgCdTe films with activated and unactivated arsenic. Journal of Applied Physics, 2014, 115, .	2.5	14
20	Electron paramagnetic resonance spectra of PbMn12 bulk crystals and nanocrystals. Journal of Magnetism and Magnetic Materials, 2013, 345, 134-137.	2.3	5
21	Structural Properties, Interface Modes and Magnetophonon Resonances in the Double Quantum Well Structure. Journal of Nanoscience and Nanotechnology, 2013, 13, 4025-4030.	0.9	0
22	Reinterpretation of the GaAsP far-infrared spectra within the framework of the Verleur and Barker model of the alloy phonon spectra. Physica Status Solidi (B): Basic Research, 2013, 250, 1614-1623.	1.5	8
23	InGaAs-InAlAs Double Quantum Wells as Starting Structures for Quantum Logic Gates. AIP Conference Proceedings, 2011, , .	0.4	0
24	Restructuring of the phonon spectra of the MCT and MZT alloy at the Dirac point singularity. , 2011, , .		0
25	Ion distribution preferences in ternary crystals $Zn_xCd_{1-x}Te$, $Zn_{1-x}Hg_xTe$ and $Cd_{1-x}Hg_xTe$. European Physical Journal B, 2011, 84, 183-195.	1.5	7
26	Additional and canonical phonon modes in $\langle \text{mml:math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML" \rangle$		

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37	Ion-milling-assisted study of defect structure of acceptor-doped HgCdTe heterostructures grown by molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2008, 23, 095001.	2.0	11
38	Statistical model analysis of local structure of quaternary sphalerite crystals. <i>Low Temperature Physics</i> , 2007, 33, 214-225.	0.6	6
39	WEAKLY INTERACTING SYMMETRIC AND ANTI-SYMMETRIC STATES IN THE BILAYER SYSTEMS. <i>International Journal of Modern Physics B</i> , 2007, 21, 1511-1518.	2.0	2
40	MAGNETOPHONON RESONANCE IN $Mn_xCd_yHg_{1-x-y}Te$. <i>International Journal of Modern Physics B</i> , 2007, 21, 1615-1620.	2.0	0
41	Magnetophonon resonance in multimode lattices and two-dimensional structures (DQW). <i>Journal of Physics: Conference Series</i> , 2007, 92, 012066.	0.4	1
42	Controlling of hydrogen and oxygen atoms in CdTe by means of far-infrared spectroscopy using synchrotron radiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1462-1472.	0.8	1
43	HgTe segregation process in HgCdTe studied by E1 reflectance peak positions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 758-762.	0.8	1
44	First interpretation of phonon spectra of quaternary solid solutions using fine structure far-IR reflectivity by synchrotron radiation. <i>Infrared Physics and Technology</i> , 2006, 49, 13-18.	2.9	11
45	High resolution spectra of defects in CdTe obtained in far-infrared region using synchrotron radiation. <i>Infrared Physics and Technology</i> , 2006, 49, 23-28.	2.9	4
46	Phonon and vibrational spectra of hydrogenated CdTe. <i>Journal of Applied Physics</i> , 2006, 100, 013521.	2.5	21
47	Far-infrared synchrotron radiation spectroscopy of solids in normal and extreme conditions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 236-239.	0.8	2
48	Influence of the low energy ion beam milling on the electrical properties of InSb. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1418-1422.	0.8	3
49	Vibrational spectra of hydrogenated CdTe. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1147-1154.	0.8	14
50	Effect of band inversion on the phonon spectra of $Hg_{1-x}Zn_xTe$ and $Hg_{1-x}Cd_xTe$ semiconductor alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2836-2839.	0.8	3
51	Pulsed laser deposition of II-VI semiconductor thin films and their layered structures. <i>Journal of Alloys and Compounds</i> , 2004, 371, 164-167.	5.5	6
52	Statistical strained-tetrahedron model of local ternary zinc blende crystal structures. <i>Low Temperature Physics</i> , 2004, 30, 921-929.	0.6	9
53	Parallel magnetotransport in multiple quantum well structures. <i>Low Temperature Physics</i> , 2004, 30, 858-866.	0.6	4
54	Manifestation of defects in phonon spectra of binary zinc-blende compounds. <i>EPJ Applied Physics</i> , 2004, 27, 321-324.	0.7	2

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55	Influence of long-term defect diffusion on HgCdTe electronic structure. EPJ Applied Physics, 2004, 27, 403-406.	0.7	0
56	Magneto-transport in single InGaAs quantum wells of different shapes. Crystal Research and Technology, 2003, 38, 407-415.	1.3	5
57	Determining $Mn_xCd_yHg_{1-x-y}Te$ and $Zn_xCd_yHg_{1-x-y}Te$ material parameters by magnetophonon spectroscopy. Physica Status Solidi A, 2003, 195, 255-259.	1.7	0
58	Charge carrier parameters in the conductive channels of HEMTs. Physica Status Solidi A, 2003, 195, 127-132.	1.7	4
59	Consideration of the Verleur model of far-infrared spectroscopy of ternary compounds. Physical Review B, 2001, 64, .	3.2	19
60	PLD of HgCdTe on two kinds of Si substrate. Applied Surface Science, 1999, 138-139, 465-470.	6.1	9
61	Multimode nature and magnetophonon resonance of quaternary solid solutions of zinc, cadmium, and mercury tellurides. Semiconductors, 1998, 32, 901-909.	0.5	3
62	Thin films of HgCdTe on silicon surfaces. Thin Solid Films, 1998, 318, 33-37.	1.8	13
63	Raman Scattering and Far Infrared Reflection-Absorption Spectra of the Four-Component Solid Solution $Zn_xCd_yHg_{1-x-y}Te$. Physica Status Solidi (B): Basic Research, 1998, 208, 21-30.	1.5	8
64	Magnetotransport phenomena in multimode lattices. Journal of Physics Condensed Matter, 1998, 10, 8587-8610.	1.8	8
65	Deposition of HgCdTe epitaxial layers on anisotropically etched silicon surfaces by laser evaporation. Applied Surface Science, 1996, 96-98, 881-886.	6.1	18
66	Oscillations of the composition of HgCdTe solid solution after laser annealing. Journal of Crystal Growth, 1996, 161, 234-238.	1.5	4
67	Oscillations of the composition of HgCdTe solid solution after laser annealing. , 1996, , 234-238.		0
68	Influence of Temperature on Magnetophonon Resonances in Four-Component Solid Solution of $Zn_xCd_yHg_{1-x-y}Te$. Physica Status Solidi (B): Basic Research, 1995, 192, 121-127.	1.5	6
69	Simulation of laser annealing of Hg _{0.8} Cd _{0.2} Te. Modelling and Simulation in Materials Science and Engineering, 1994, 2, 329-336.	2.0	1
70	Segregation of impurities and defects in Hg _{0.8} Cd _{0.2} Te by laser annealing. Thin Solid Films, 1994, 241, 151-154.	1.8	4
71	Magnetophonon Resonances on Three Phonon Modes in $Zn_xCd_yHg_{1-x-y}Te$ Epitaxial Layers. , 1994, , 415-418.		1
72	Role of Two-Phonon Transitions in Resonance Effects in Semiconductors. Europhysics Letters, 1992, 18, 325-330.	2.0	5

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73	Magnetophonon Resonance on Three Types of Carriers in p-InSb. Physica Status Solidi (B): Basic Research, 1991, 166, 249-258.	1.5	4
74	Influence of High Power Laser Beam on Physical Properties of Epitaxial Films of $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ ($x \approx 0.2$). Acta Physica Polonica A, 1991, 80, 475-479.	0.5	4