

# E Sheregii

## List of Publications by Year in descending order

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74  
papers

418  
citations

840776

11  
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940533

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74  
all docs

74  
docs citations

74  
times ranked

322  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Phonon and vibrational spectra of hydrogenated CdTe. <i>Journal of Applied Physics</i> , 2006, 100, 013521.	2.5	21
3	Consideration of the Verleur model of far-infrared spectroscopy of ternary compounds. <i>Physical Review B</i> , 2001, 64, .	3.2	19
4	Deposition of HgCdTe epitaxial layers on anisotropically etched silicon surfaces by laser evaporation. <i>Applied Surface Science</i> , 1996, 96-98, 881-886.	6.1	18
5	Temperature Dependence Discontinuity of the Phonon Mode Frequencies Caused by a Zero-Gap State in HgCdTe Alloys. <i>Physical Review Letters</i> , 2009, 102, 045504.	7.8	16
6	Far-infrared reflectivity as a probe of point defects in Zn- and Cd-doped HgTe. <i>Applied Physics Letters</i> , 2008, 92, 121904.	3.3	15
7	Vibrational spectra of hydrogenated CdTe. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1147-1154.	0.8	14
8	Defect study in molecular beam epitaxy-grown HgCdTe films with activated and unactivated arsenic. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	14
9	Thin films of HgCdTe on silicon surfaces. <i>Thin Solid Films</i> , 1998, 318, 33-37.	1.8	13
10	Optical detection of symmetric and antisymmetric states in double quantum wells at room temperature. <i>Physical Review B</i> , 2009, 80, .	3.2	12
11	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
12	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
13	The metal-matrix composites reinforced by the fullerenes. <i>AIP Advances</i> , 2018, 8, 085317.	1.3	11
14	Additional and canonical phonon modes in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$		

#	ARTICLE	IF	CITATIONS
19	Magnetotransport phenomena in multimode lattices. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 8587-8610.	1.8	8
20	Magnetophonon resonance in double quantum wells. <i>Physical Review B</i> , 2009, 79, .	3.2	8
21	Reinterpretation of the Ga<sc>A</sc>s<sc>P</sc> far-infrared spectra within the framework of the Verleur and Barker model of the alloy phonon spectra. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1614-1623.	1.5	8
22	Surface enhanced Raman scattering as a probe of the cholesterol oxidase enzyme. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	8
23	Ion distribution preferences in ternary crystals $Zn_xCd_{1-x}Te$ , $Zn_{1-x}Hg_xTe$ and $Cd_{1-x}Hg_xTe$ . <i>European Physical Journal B</i> , 2011, 84, 183-195.	1.5	7
24	Influence of Temperature on Magnetophonon Resonances in Four-Component Solid Solution of $Zn_xCd_yHg_{1-x-y}Te$ . <i>Physica Status Solidi (B): Basic Research</i> , 1995, 192, 121-127.	1.5	6
25	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
26	Statistical model analysis of local structure of quaternary sphalerite crystals. <i>Low Temperature Physics</i> , 2007, 33, 214-225.	0.6	6
27	Role of Two-Phonon Transitions in Resonance Effects in Semiconductors. <i>Europhysics Letters</i> , 1992, 18, 325-330.	2.0	5
28	Magneto-transport in single InGaAs quantum wells of different shapes. <i>Crystal Research and Technology</i> , 2003, 38, 407-415.	1.3	5
29	Electron paramagnetic resonance spectra of PbMn <sub>2</sub> bulk crystals and nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 345, 134-137.	2.3	5
30	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
31	Magnetophonon Resonance on Three Types of Carriers in p-InSb. <i>Physica Status Solidi (B): Basic Research</i> , 1991, 166, 249-258.	1.5	4
32	Segregation of impurities and defects in Hg <sub>0.8</sub> Cd <sub>0.2</sub> Te by laser annealing. <i>Thin Solid Films</i> , 1994, 241, 151-154.	1.8	4
33	Oscillations of the composition of HgCdTe solid solution after laser annealing. <i>Journal of Crystal Growth</i> , 1996, 161, 234-238.	1.5	4
34	Charge carrier parameters in the conductive channels of HEMTs. <i>Physica Status Solidi A</i> , 2003, 195, 127-132.	1.7	4
35	Parallel magnetotransport in multiple quantum well structures. <i>Low Temperature Physics</i> , 2004, 30, 858-866.	0.6	4
36	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

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37	Additional phonon modes related to intrinsic defects in CdHgTe. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2012-2015.	0.8	4
38	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
39	Multimode nature and magnetophonon resonance of quaternary solid solutions of zinc, cadmium, and mercury tellurides. Semiconductors, 1998, 32, 901-909.	0.5	3
40	Effect of band inversion on the phonon spectra of $\text{Hg}_{1-x}\text{Zn}_x\text{Te}$ and $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ semiconductor alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2836-2839.	0.8	3
41	Influence of the low energy ion beam milling on the electrical properties of InSb. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1418-1422.	0.8	3
42	Analysis of the phonon line profile of hydrogenated CdTe. Journal of Physics Condensed Matter, 2008, 20, 325217.	1.8	3
43	The stochastic model for ternary and quaternary alloys: Application of the Bernoulli relation to the phonon spectra of mixed crystals. Journal of Applied Physics, 2014, 115, 114903.	2.5	3
44	Landau levels and shallow donor states in GaAs/AlGaAs multiple quantum wells at megagauss magnetic fields. Physical Review B, 2017, 95, .	3.2	3
45	Far-infrared synchrotron radiation spectroscopy of solids in normal and extreme conditions. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 236-239.	0.8	2
46	WEAKLY INTERACTING SYMMETRIC AND ANTI-SYMMETRIC STATES IN THE BILAYER SYSTEMS. International Journal of Modern Physics B, 2007, 21, 1511-1518.	2.0	2
47	Influence of the electron-phonon interaction on the temperature dependence of the phonon mode frequency in the II-VI compound solid solutions. Journal of Applied Physics, 2015, 117, 025702.	2.5	2
48	Sensors element on base of the relief Au-coated GaAs grating. , 2017, , .		2
49	Manifestation of defects in phonon spectra of binary zinc-blende compounds. EPJ Applied Physics, 2004, 27, 321-324.	0.7	2
50	Optical properties of colloidal gold nanoparticles implemented into a subsurface layer of fused silica. Ukrainian Journal of Physical Optics, 2017, 18, 102.	13.0	2
51	Simulation of laser annealing of $\text{Hg}_{0.8}\text{Cd}_{0.2}\text{Te}$ . Modelling and Simulation in Materials Science and Engineering, 1994, 2, 329-336.	2.0	1
52	HgTe segregation process in HgCdTe studied by E1 reflectance peak positions. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 758-762.	0.8	1
53	Magnetophonon resonance in multimode lattices and two-dimensional structures (DQW). Journal of Physics: Conference Series, 2007, 92, 012066.	0.4	1
54	Controlling of hydrogen and oxygen atoms in CdTe by means of far-infrared spectroscopy using synchrotron radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1462-1472.	0.8	1

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55	Quantitative method of the point defect concentration determination in Zn- and Cd-doped HgTe using the far-infrared spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2020-2023.	0.8	1
56	Surface-enhanced Raman scattering and Plasmon effect for enzymatic bionanocomplexes characterization. EPJ Web of Conferences, 2017, 133, 05001.	0.3	1
57	Gold-coated polycarbonate grating-based substrates for Raman spectroscopy. , 2017, , .		1
58	Magnetophonon Resonances on Three Phonon Modes in Zn <sub>x</sub> Cd <sub>1-x</sub> Te Epitaxial Layers. , 1994, , 415-418.		1
59	Study of plasma frequency for Al <sub>1/2</sub> In alloys with different concentrations. Ukrainian Journal of Physical Optics, 2017, 18, 225.	13.0	1
60	Determining Mn <sub>x</sub> Cd <sub>y</sub> Hg <sub>1-x-y</sub> Te and Zn <sub>x</sub> Cd <sub>y</sub> Hg <sub>1-x-y</sub> Te material parameters by magnetophonon spectroscopy. Physica Status Solidi A, 2003, 195, 255-259.	1.7	0
61	MAGNETOPHONON RESONANCE IN Mn <sub>x</sub> Cd <sub>y</sub> Hg <sub>1-x-y</sub> Te. International Journal of Modern Physics B, 2007, 21, 1615-1620.	2.0	0
62	Influence of hydrogen on hydrogenated cadmium telluride optical spectra. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2016-2019.	0.8	0
63	Electron-phonon interaction in double quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2076-2079.	0.8	0
64	Preface: Phys. Status Solidi C 6/9. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1997-1997.	0.8	0
65	InGaAs/InAlAs Double Quantum Wells as Starting Structures for Quantum Logic Gates. AIP Conference Proceedings, 2011, , .	0.4	0
66	Restructuring of the phonon spectra of the MCT and MZT alloy at the Dirac point singularity. , 2011, , .		0
67	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
68	Two-dimensional materials as inorganic analogues of graphene: methods of preparation, optical properties, and applications. , 2015, , .		0
69	Interface quality and interface modes in the double quantum wells structure. Surface and Interface Analysis, 2016, 48, 498-500.	1.8	0
70	Role of electron-phonon interaction in the temperature dependence of the phonon mode frequency in II-VI compound alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 510-513.	0.8	0
71	Cyclotron and combined phonon-assisted resonances in the double-well heterostructure In <sub>0.65</sub> Ga <sub>0.35</sub> As/In <sub>0.52</sub> Al <sub>0.48</sub> As at megagauss magnetic fields. Physical Review B, 2018, 98, .	3.2	0
72	Magnetophonon resonance on the phonon frequency difference in quasi-free-standing graphene. Physical Review B, 2021, 103, .	3.2	0

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73	Influence of long-term defect diffusion on HgCdTe electronic structure. EPJ Applied Physics, 2004, 27, 403-406.	0.7	0
74	Oscillations of the composition of HgCdTe solid solution after laser annealing. , 1996, , 234-238.		0