

Konstantin E Glukhov

List of Publications by Year in descending order

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40
papers

270
citations

1040056

9
h-index

1058476

14
g-index

45
all docs

45
docs citations

45
times ranked

274
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Structure and Phase Transition in Ferroelectric Sn ₂ P ₂ S ₆ Crystal. International Journal of Molecular Sciences, 2012, 13, 14356-14384.	4.1	41
2	Ferroelectric and Semiconducting Properties of Sn ₂ P ₂ S ₆ Crystals with Intrinsic Vacancies. Ferroelectrics, 2011, 418, 124-133.	0.6	21
3	Structural, electronic, vibration and elastic properties of the layered AgInP ₂ S ₆ semiconducting crystal â€” DFT approach. RSC Advances, 2018, 8, 6965-6977.	3.6	20
4	Charge Transfer and Anharmonicity in Sn ₂ P ₂ S ₆ Ferroelectrics. Ferroelectrics, 2011, 414, 30-40.	0.6	16
5	Layered ferrielectric crystals CuInP ₂ S(Se) ₆ : a study from the first principles. Phase Transitions, 2019, 92, 440-450.	1.3	14
6	New insight into strong correlated states realised in a ferroelectric and paraelectric chalcogenide Sn ₂ P ₂ S ₆ crystal. RSC Advances, 2017, 7, 27770-27779.	3.6	13
7	Ferroelectricity and Polarons in Sn ₂ P ₂ S ₆ Crystals. Ferroelectrics, 2012, 440, 31-41.	0.6	12
8	Electron-Phonon Interaction as a Mechanism of Phase Transition in the CuInP ₂ S ₆ Crystal. Acta Physica Polonica A, 2014, 126, 1143-1145.	0.5	9
9	Raman study of a magnetic phase transition in the MnPS ₃ single crystal. Low Temperature Physics, 2019, 45, 1082-1091.	0.6	9
10	Electronic and vibrational properties of pure MnPS ₃ crystal: Theoretical and experimental investigation. Computational Materials Science, 2020, 177, 109592.	3.0	9
11	First-principles calculations of phonons and Raman spectra in the Hg ₃ Te ₂ Cl ₂ crystals. Journal of Alloys and Compounds, 2016, 669, 161-166.	5.5	8
12	Elementary energy bands in the band structure of AIV, AIIIBV crystals and superlattices built upon them. Physica Status Solidi (B): Basic Research, 2007, 244, 1318-1336.	1.5	7
13	Elementary energy bands concept, band structure, and peculiarities of bonding in \hat{I}^2 -InSe crystal. Physica Status Solidi (B): Basic Research, 2010, 247, 318-324.	1.5	7
14	Nature of thermoelectric properties occurring in defected Sn ₂ P ₂ S ₆ chalcogenide crystals. CrystEngComm, 2020, 22, 2336-2349.	2.6	7
15	Chemical Bonding and Polarons in Sn ₂ P ₂ S(Se) ₆ Ferroelectrics. Ferroelectrics, 2014, 462, 117-128.	0.6	6
16	Electronic structure of low-pressure and high-pressure phases of silicon disulfide. Applied Physics A: Materials Science and Processing, 2014, 117, 1499-1514.	2.3	6
17	Band structures and optical properties related to substitutional impurities in TlGaSe ₂ layered crystals: first-principles study. Phase Transitions, 2019, 92, 451-460.	1.3	6
18	Cation role in the thermal properties of layered materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi>M</mml:mi></mml:mrow></mml:mrow></mml:math>		

#	ARTICLE	IF	CITATIONS
19	XPS of Impurities Influence on Electronic Structure of Sn ₂ P ₂ S ₆ Ferroelectrics. <i>Ferroelectrics</i> , 2011, 418, 134-142.	0.6	5
20	Electronic structure of tin monosulfide. <i>Journal of Solid State Chemistry</i> , 2017, 245, 34-44.	2.9	5
21	Layered GeP ₂ S ₆ , GeP ₂ Se ₆ , GeP ₂ Te ₆ , SnP ₂ S ₆ , SnP ₂ Se ₆ , and SnP ₂ Te ₆ Polar Crystals with Semiconductorâ€“Metal Transitions Induced by Pressure or Chemical Composition. <i>Integrated Ferroelectrics</i> , 2021, 220, 90-99.	0.7	5
22	Optical properties and band structure of a layered Tl ₂ S crystal. <i>Physics of the Solid State</i> , 2013, 55, 2317-2323.	0.6	4
23	Vibronic interaction in crystals with the Jahn-Teller centers in the elementary energy bands concept. <i>Condensed Matter Physics</i> , 2015, 18, 33705.	0.7	4
24	Theoretical and Experimental Studies of Electronic and Optical Properties of Layered TlIn(S _{0.75} Se _{0.25}) ₂ Ferroelectric Crystal. <i>Integrated Ferroelectrics</i> , 2021, 220, 18-29.	0.7	4
25	Phonon spectra and phase transitions in van der Waals ferroics MMâ€™P ₂ X ₆ . <i>Molecular Crystals and Liquid Crystals</i> , 2022, 747, 14-22.	0.9	4
26	Peculiarities of Chemical Bonding in Crystals of the In-Se System. <i>Acta Physica Polonica A</i> , 2014, 126, 1146-1148.	0.5	3
27	Thermal diffusivity and thermal conductivity in layered ferrielectric materials M ¹⁺ M ³⁺ P ₂ (S,Se) ₆ (M ¹⁺ â€™=â€™Cu, Ag;) Tj ET.Q1 1 0.784314		
28	Electron-Deformational Phase Transitions in a TlGaSe ₂ Layered Crystal. <i>Acta Physica Polonica A</i> , 2016, 129, A-123-A-125.	0.5	3
29	Energy states in short-period symmetrical and asymmetrical (GaAs)N/(AlAs)M superlattices: The effect of the boundary conditions. <i>Semiconductors</i> , 2004, 38, 410-418.	0.5	2
30	Nonâ€™standard anisotropy of the energy spectrum of a layered TlGaSe ₂ crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1446-1452.	1.5	2
31	Gain Spectrum for the In ₄ Se ₃ Crystal with a Non-Standard Dispersion Law of Charge Carriers. <i>Acta Physica Polonica A</i> , 2011, 119, 720-722.	0.5	2
32	Electron structure of the equilibrium and metastable phases in superionic Li ₂ SiS ₃ . <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2013, 16, 48-54.	1.0	2
33	Parameters of an Unique Condenson State in the Structure of the In ₄ Se ₃ Crystal. <i>Acta Physica Polonica A</i> , 2012, 122, 1115-1117.	0.5	2
34	Electronic and Optical Properties of the TlInS ₂ Crystal: Theoretical and Experimental Studies. <i>Acta Physica Polonica A</i> , 2019, 136, 640-644.	0.5	2
35	Investigation of the energy and structural parameters of strained (Î²-InSe)/(In ₄ Se ₃) superlattices. <i>Superlattices and Microstructures</i> , 2016, 100, 448-457.	3.1	1
36	Covalent bridges - an induced modification of the conduction band in layered crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 845-855.	1.5	0

#	ARTICLE	IF	CITATIONS
37	Exact ground state for the four-electron problem in a 2D finite honeycomb lattice. Philosophical Magazine, 2014, 94, 2195-2223.	1.6	0
38	Construction of the Adiabatic Potential of a Symmetric Molecule in the Vicinity of Charged Semiconductor Surface. Acta Physica Polonica A, 2016, 129, A-120-A-122.	0.5	0
39	Electronic and Optical Properties of Heterostructures based on Indium Chalcogenides. Acta Physica Polonica A, 2017, 132, 319-321.	0.5	0
40	The first-principle study of substitutional impuritiesâ€™ effect on elastic properties of TlInS ₂ layered crystal. Low Temperature Physics, 2022, 48, 57-63.	0.6	0