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High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa_2Se_4 and defect-chalcopyrite CdGa_2S_4

DOI: 10.1063/1.2981089

Journal of Applied Physics, 2008, 104, 063524.

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#	Paper	IF	Citations
55	Pressure-induced structural phase transitions in materials and earth sciences. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 9-31	1.3	72
54	Post-spinel transformations and equation of state in ZnGa ₂ O ₄ : Determination at high pressure by in situ x-ray diffraction. <i>Physical Review B</i> , 2009 , 79,	3.3	64
53	Trends in the band-gap pressure coefficients and bulk moduli in different structures of ZnGa ₂ S ₄ , ZnGa ₂ Se ₄ and ZnGa ₂ Te ₄ . <i>Chinese Physics B</i> , 2010 , 19, 107104	1.2	13
52	Pressure-induced phase transition in defect Chalcopyrites HgAl ₂ Se ₄ and CdAl ₂ S ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 832-835	3.9	28
51	Current-voltage characteristics of ZnGa ₂ Se ₄ compound polycrystals. <i>Semiconductors</i> , 2011 , 45, 52-55	0.7	2
50	Electronegativity-related bulk moduli of crystal materials. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 1227-1236	1.3	26
49	Theoretical study on pressure-induced phase transition and thermal properties of HgAl ₂ Se ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2801-2808	1.3	1
48	On the crystal structure of the defective ternary compound ZnGa ₂ Se ₄ . <i>Solid State Communications</i> , 2011 , 151, 212-215	1.6	13
47	Pressure induced phase transition in defect chalcopyrite compounds. <i>Journal of Physics: Conference Series</i> , 2012 , 377, 012024	0.3	1
46	First-principles study of the electronic structure and optical properties of defect chalcopyrite CdGa ₂ Te ₄ . <i>Chinese Physics B</i> , 2012 , 21, 123101	1.2	4
45	High-pressure optical and vibrational properties of CdGa ₂ Se ₄ : Order-disorder processes in adamantine compounds. <i>Journal of Applied Physics</i> , 2012 , 111, 013518	2.5	36
44	Crystal Chemistry of CdIn ₂ S ₄ , MgIn ₂ S ₄ , and MnIn ₂ S ₄ Thiospinels under High Pressure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14078-14087	3.8	38
43	Structural, elastic, electronic, and optical properties of defect-chalcopyrite structure CdGa ₂ X ₄ (X = S, Se) compounds. <i>Journal of Materials Science</i> , 2012 , 47, 3849-3854	4.3	26
42	Lattice Dynamics Study of HgGa ₂ Se ₄ at High Pressures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15773-15781	3.8	19
41	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa ₂ Te ₄ . <i>Journal of Applied Physics</i> , 2013 , 114, 233507	2.5	25
40	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa ₂ Se ₄ . <i>Journal of Applied Physics</i> , 2013 , 113, 233501	2.5	14
39	Vibrational study of HgGa ₂ S ₄ under high pressure. <i>Journal of Applied Physics</i> , 2013 , 113, 093512	2.5	18

38	Thermally activated cation ordering in ZnGa ₂ Se ₄ single crystals studied by Raman scattering, optical absorption, and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 165802	1.8	8
37	Crystal structure of HgGa ₂ Se ₄ under compression. <i>Materials Research Bulletin</i> , 2013 , 48, 2128-2133	5.1	17
36	The band structure of birefractive CdGa ₂ S ₄ crystals. <i>Optics Communications</i> , 2013 , 309, 205-211	2	7
35	Order/disorder processes in adamantine ternary ordered-vacancy compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1496-1504	1.3	10
34	Multiple pressure-induced transitions in HgCr ₂ S ₄ . <i>Applied Physics Letters</i> , 2013 , 103, 201908	3.4	12
33	Local structural evidence for strong electronic correlations in spinel LiRh ₂ O ₄ . <i>Physical Review B</i> , 2013 , 88,	3.3	15
32	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa ₂ Se ₄ . <i>Journal of Applied Physics</i> , 2013 , 113, 073510	2.5	24
31	Order/disorder phenomena in Zn _{1-x} MnxGa ₂ Se ₄ ordered vacancy compounds: high temperature neutron powder diffraction experiments. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 485402	1.8	1
30	Systems Based on CdS. 2013 , 153-242		
29	Structural and Vibrational Study of Pseudocubic CdIn ₂ Se ₄ under Compression. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26987-26999	3.8	7
28	Structural and elastic properties of defect chalcopyrite HgGa ₂ S ₄ under high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 70-78	5.7	25
27	Structural and Vibrational Properties of CdAl ₂ S ₄ under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15363-15374	3.8	6
26	HgGa ₂ Se ₄ under high pressure: An optical absorption study. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2043-2051	1.3	9
25	Interference of birefractive waves in CdGa ₂ S ₄ crystals. <i>Physica B: Condensed Matter</i> , 2015 , 463, 88-92	2.8	5
24	Phase stability and elastic properties of CuGaSe ₂ under high pressure. <i>Solid State Communications</i> , 2015 , 218, 1-5	1.6	9
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21	Phase transition and optoelectronic properties of MgH ₂ . <i>Phase Transitions</i> , 2016 , 89, 437-447	1.3	6

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19	Role of the Crystal Lattice Constants and Band Structures in the Optoelectronic Spectra of CdGa ₂ S ₄ by DFT Approaches. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 839-849	1.3	4
18	Structural, electrical and thermoelectric properties of CdGa ₂ S ₄ compound under high pressures by mBJ approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16476-16483	2.1	8
17	Structural and optical investigations of ZnGa ₂ X ₄ (X = S, Se) compounds for solar photovoltaic applications. <i>Materials Chemistry and Physics</i> , 2017 , 199, 257-264	4.4	14
16	First-Principles Study of Structural, Optical, and Thermodynamic Properties of ZnIn ₂ X ₄ (X = Se, Te) Compounds with DC or DF Structure. <i>Journal of Electronic Materials</i> , 2017 , 46, 401-412	1.9	3
15	Computational investigations of electronic and optical properties of ZnGa ₂ X ₄ (X = S, Se): A promising solar PV material. 2017 ,		
14	First-principles study of phase transition, electronic, elastic and optical properties of defect chalcopyrite ZnGa ₂ Te ₄ semiconductor under different pressures. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 119, 193-201	3.9	10
13	Multinary metal chalcogenides with tetrahedral structures for second-order nonlinear optical, photocatalytic, and photovoltaic applications. <i>Coordination Chemistry Reviews</i> , 2018 , 368, 115-133	23.2	102
12	Structural, electronic, elastic and lattice dynamical properties of CdIn ₂ Te ₄ under pressure from first principle. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850026	1.1	3
11	Universal link of magnetic exchange and structural behavior under pressure in chromium spinels. <i>Physical Review B</i> , 2018 , 97,	3.3	14
10	Vibrational properties of CdGa ₂ S ₄ at high pressure. <i>Journal of Applied Physics</i> , 2019 , 125, 115901	2.5	4
9	Pressure effects on vibrational properties and structure of nanocrystalline Cu ₂ ZnSnS ₄ . <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159041	5.7	1
8	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa ₂ S ₄ and HgGa ₂ S ₄ . <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161226	5.7	1
7	(AB_2S_4) and (AB_2Se_4) Compounds at High Pressures. <i>Springer Series in Materials Science</i> , 2014 , 75-102	0.9	1
6	(AB_2S_4) Ordered-Vacancy Compounds at High Pressures. <i>Springer Series in Materials Science</i> , 2014 , 133-161	0.9	2
5	(AB_2Se_4) Ordered-Vacancy Compounds at High Pressures. <i>Springer Series in Materials Science</i> , 2014 , 163-184	0.9	3
4	Systems Based on ZnSe. 2013 , 65-102		
3	Electronic, elastic and optical properties of ZnAl ₂ Te ₄ semiconductor under isotropic pressures via first-principles calculations.		

- 2 Optical absorption of defect chalcopyrite and defect stannite $ZnGa_2Se_4$ under high pressure. **2023**, 939, 168733 ○
- 1 Bulk Modulus, Elastic Constants, and Force Constants of Interatomic Bonds of $IIIV_2VI_4$ Compounds. ○