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## Pressure-induced disordered substitution alloy in Sb<sub>2</sub>Te<sub>3</sub>

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Inorganic Chemistry, 2011, 50, 11291-3.

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#	Paper	IF	Citations
67	Structural, Vibrational, and Electronic Study of As <sub>2</sub> Te <sub>3</sub> under Compression.		
66	Oxygen, sulfur, selenium, tellurium and polonium. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2012</b> , 108, 113		
65	High pressure transport characteristics of Bi <sub>2</sub> Te <sub>3</sub> , Sb <sub>2</sub> Te <sub>3</sub> , and BiSbTe <sub>3</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1154-1158	3.9	27
64	Superconductivity in topological insulator Sb <sub>2</sub> Te <sub>3</sub> induced by pressure. <i>Scientific Reports</i> , <b>2013</b> , 3, 2016	4.9	113
63	High-pressure phase transitions, amorphization, and crystallization behaviors in Bi <sub>2</sub> Se <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 125602	1.8	44
62	Stabilization of 9/10-Fold Structure in Bismuth Selenide at High Pressures. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10045-10050	3.8	38
61	New quantum matters: Build up versus high pressure tuning. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2013</b> , 56, 2337-2350	3.6	6
60	High-pressure studies of topological insulators Bi <sub>2</sub> Se <sub>3</sub> , Bi <sub>2</sub> Te <sub>3</sub> , and Sb <sub>2</sub> Te <sub>3</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 669-676	1.3	61
59	Pressure-induced phase transformation of In <sub>2</sub> Se <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2013</b> , 102, 062105	3.4	39
58	Sb <sub>2</sub> Te <sub>3</sub> under pressure. <i>Scientific Reports</i> , <b>2013</b> , 3, 2665	4.9	78
57	<sup>121</sup> Sb and <sup>125</sup> Te nuclear inelastic scattering in Sb <sub>2</sub> Te <sub>3</sub> under high pressure. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 124001	1.8	5
56	High-pressure studies of Bi <sub>2</sub> S <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 1713-20	2.8	57
55	Structural phase transitions in Bi <sub>2</sub> Se <sub>3</sub> under high pressure. <i>Scientific Reports</i> , <b>2015</b> , 5, 15939	4.9	44
54	First principles study of isostructural phase transition in Sb <sub>2</sub> Te <sub>3</sub> under high pressure. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 379-383	2.5	10
53	Pressure evolution of electrical transport in the 3D topological insulator (Bi,Sb) <sub>2</sub> (Se,Te) <sub>3</sub> . <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 592, 012124	0.3	2
52	Pressure-Induced Reversible Phase Transformation in Nanostructured Bi <sub>2</sub> Te <sub>3</sub> with Reduced Transition Pressure. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3843-3848	3.8	25
51	Monoclinic structure and electrical properties of metastable Sb <sub>2</sub> Te <sub>3</sub> and Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> phases. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 267-273	1.3	10

50	Pressure induced metallization with absence of structural transition in layered molybdenum diselenide. <i>Nature Communications</i> , <b>2015</b> , 6, 7312	17.4	141
49	Enhanced power factor and high-pressure effects in (Bi,Sb) <sub>2</sub> (Te,Se) <sub>3</sub> thermoelectrics. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 143901	3.4	36
48	Phase transition, elastic and electronic properties of topological insulator Sb <sub>2</sub> Te <sub>3</sub> under pressure: First principle study. <i>Chinese Physics B</i> , <b>2016</b> , 25, 026401	1.2	9
47	Structural properties of Sb <sub>2</sub> S <sub>3</sub> under pressure: evidence of an electronic topological transition. <i>Scientific Reports</i> , <b>2016</b> , 6, 24246	4.9	47
46	Pressure tuning the lattice and optical response of silver sulfide. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 261902	3.4	5
45	Structural Phase Transitions and Metallized Phenomena in Arsenic Telluride under High Pressure. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 3907-14	5.1	13
44	Crystal structure and transporting properties of Bi <sub>2</sub> S <sub>3</sub> under high pressure: Experimental and theoretical studies. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 329-335	5.7	22
43	Bulk TMDCs: Review of Structure and Properties. <i>Springer Series in Materials Science</i> , <b>2016</b> , 29-77	0.9	3
42	Superconducting Bi <sub>2</sub> Te: Pressure-induced universality in the (Bi <sub>2</sub> ) <sub>m</sub> (Bi <sub>2</sub> Te <sub>3</sub> ) <sub>n</sub> series. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	7
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40	ICP-AES and microRaman corrosion behaviour investigation on Pb, Sb, Bi tellurides in sodium chloride solution. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 654, 593-598	5.7	3
39	Structural phase transitions of (BiSb)(TeSe) compounds under high pressure and the influence of the atomic radius on the compression processes of tetradymites. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2207-2216	3.6	14
38	Pressure-induced insulator-to-metal transitions for enhancing thermoelectric power factor in bismuth telluride-based alloys. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 12784-12793	3.6	15
37	Structure determination of the high-pressure phases of topological insulator Bi <sub>2</sub> Se <sub>3</sub> using experiments and calculations. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 225902	2.5	10
36	Optoelectronic and thermoelectric response of Ca <sub>5</sub> Al <sub>2</sub> Sb <sub>6</sub> to shift of band gap from direct to indirect. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 14954-14964	2.1	8
35	Bi-centric view of the isostructural phase transitions in Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700007	1.3	8
34	Pressure driven semi-metallic phase transition of Sb <sub>2</sub> Te <sub>3</sub> . <i>Materials Letters</i> , <b>2017</b> , 209, 78-81	3.3	6
33	Pressure-Induced Phase Transitions in GeTe-Rich Ge-Sb-Te Alloys across the Rhombohedral-to-Cubic Transitions. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 7687-7693	5.1	3

32	Structural, vibrational, and electronic topological transitions of Bi <sub>1.5</sub> Sb <sub>0.5</sub> Te <sub>1.8</sub> Se <sub>1.2</sub> under pressure. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 115903	2.5	10
31	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectrics. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 025501	3	15
30	Pressure-induced topological insulator-to-metal transition and superconductivity in Sn-doped Bi <sub>1.1</sub> Sb <sub>0.9</sub> Te <sub>2</sub> S. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	6
29	Unexpected Semimetallic BiS at High Pressure and High Temperature. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5785-5791	6.4	10
28	Local structural changes during the disordered substitutional alloy transition in Bi <sub>2</sub> Te <sub>3</sub> by high-pressure XAFS. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 065901	2.5	6
27	Exploring Topological Superconductivity in Topological Materials. <i>Advanced Quantum Technologies</i> , <b>2019</b> , 2, 1800112	4.3	17
26	Pressure-induced superconductivity in Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
25	Strategies and challenges of high-pressure methods applied to thermoelectric materials. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 220901	2.5	26
24	Pressure-Induced Structural Phase Transition and a Special Amorphization Phase of Two-Dimensional Ferromagnetic Semiconductor Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13885-13891	3.8	20
23	The Structure of Phase-Change Chalcogenides and Their High-Pressure Behavior. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800506	2.5	17
22	First-principles calculations of structural, electronic, and optical properties for Ni-doped Sb <sub>2</sub> S <sub>3</sub> . <i>Computational Condensed Matter</i> , <b>2020</b> , 24, e00477	1.7	6
21	Enhanced Structural Stability of Sb <sub>2</sub> Se <sub>3</sub> via Pressure-Induced Alloying and Amorphization. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 3421-3428	3.8	4
20	Pressure-induced superconductivity in SnSbTe. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 235901	1.8	1
19	Pressure induced superconducting state in ideal topological insulator BiSbTe <sub>3</sub> . <i>Physica Scripta</i> , <b>2021</b> , 96, 055802	2.6	0
18	Synthesis of superconducting SbS and SbS <sub>2</sub> antimony chalcogenide compounds at high pressures. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	0
17	Monoclinic EuSn <sub>2</sub> As <sub>2</sub> : A Novel High-Pressure Network Structure. <i>Physical Review Letters</i> , <b>2021</b> , 126, 155701	7.4	4
16	Local insight to the structural phase transition sequence of BiSe under quasi-hydrostatic and nonhydrostatic pressure. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	2
15	High pressure induced decomposition of antimony trisulfide. <i>Materials Today Communications</i> , <b>2021</b> , 29, 102828	2.5	1

14	Pressure induced topological and structural transitions in iron and sulphur doped Sb <sub>2</sub> Te <sub>3</sub> . <i>Materials Letters</i> , <b>2021</b> , 302, 130401	3.3	0
13	Laser-induced crystallization and phase transitions of As <sub>2</sub> Se <sub>3</sub> under high pressure. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	
12	Universal superconductivity phase diagram for pressurized tetradymite topological insulators. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	5
11	Traces of Thermoelectric Properties on XAFS Spectra. <i>Journal of Electronic Materials</i> , <b>2022</b> , 51, 1740	1.9	
10	Pressure-induced phase transitions, amorphization and alloying in SbS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> ,	3.6	3
9	A comprehensive review on topological superconducting materials and interfaces. <i>Superconductor Science and Technology</i> ,	3.1	1
8	Doping effects of Ru on Sb <sub>2</sub> Te and Sb <sub>2</sub> Te <sub>3</sub> as phase change materials studied by first-principles calculations. <i>Materials Today Communications</i> , <b>2022</b> , 31, 103669	2.5	1
7	A Quintuple-Layered Binary Chalcogenide Sb <sub>2</sub> Te <sub>3</sub> Single Crystal and Its Transport Properties for Thermoelectric Applications. <b>2022</b> , 7, 27798-27803		
6	Application of impedance spectroscopy in exploring electrical properties of dielectric materials under high pressure.		
5	Pressure-induced structural transitions, alloying and superconductivity in topological insulators Bi <sub>2</sub> Te <sub>2</sub> Se and Bi <sub>2</sub> Se <sub>2</sub> Te. <b>2022</b> , 51, 14630-14638		0
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3	Experimental and theoretical revelation of a unique band topology in Sb <sub>2</sub> Te <sub>3</sub> topological insulator by substitution of Cu at high pressure stud. <b>2023</b> , 290, 116347		0
2	Predicted bismuth tellurium under high pressures. 1-9		0
1	Theoretical Study of Pressure-Induced Phase Transitions in Sb <sub>2</sub> S <sub>3</sub> , Bi <sub>2</sub> S <sub>3</sub> , and Sb <sub>2</sub> Se <sub>3</sub> . <b>2023</b> , 13, 498		0