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Theoretical and experimental study of the structural stability of TbPO₄ at high pressures

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#	Paper	IF	Citations
44	Inelastic neutron scattering, lattice dynamics, and high-pressure phase stability of zircon-structured lanthanide orthophosphates. <i>Physical Review B</i> , 2010 , 82,	3.3	7
43	In situ high-pressure synchrotron x-ray diffraction study of CeVO ₄ and TbVO ₄ up to 50 GPa. <i>Physical Review B</i> , 2011 , 84,	3.3	54
42	Zircon to monazite phase transition in CeVO ₄ : X-ray diffraction and Raman-scattering measurements. <i>Physical Review B</i> , 2011 , 84,	3.3	71
41	High-pressure study of the behavior of mineral barite by x-ray diffraction. <i>Physical Review B</i> , 2011 , 84,	3.3	59
40	Crystal chemistry of the monazite structure. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 941-976	6	259
39	Experimental and theoretical study of structural properties and phase transitions in YAsO ₄ and YCrO ₄ . <i>Physical Review B</i> , 2011 , 83,	3.3	36
38	First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO ₄ under pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	21
37	Structural behaviour of alkaline sulfides under compression: high-pressure experimental study on Cs ₂ S. <i>Journal of Chemical Physics</i> , 2011 , 135, 054511	3.9	25
36	Direct Zircon-to-Scheelite Structural Transformation in YPO ₄ and YPO ₄ :Eu ³⁺ Nanoparticles Under High Pressure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24837-24844	3.8	27
35	Ab initio prediction of pressure-induced structural phase transitions of CrVO ₄ -type orthophosphates. <i>Physical Review B</i> , 2012 , 86,	3.3	33
34	CaSO ₄ and its pressure-induced phase transitions. A density functional theory study. <i>Inorganic Chemistry</i> , 2012 , 51, 1751-9	5.1	36
33	Effects of pressure on the structure and lattice dynamics of TmPO ₄ : Experiments and calculations. <i>Physical Review B</i> , 2012 , 85,	3.3	27
32	Polarized micro-Raman spectroscopy and ab initio phonon modes calculations of LuPO ₄ . <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1411-1415	2.3	5
31	High-Pressure Stability and Compressibility of Zircon-Type YV _{1-x} PxO ₄ :Eu ³⁺ Solid-Solution Nanoparticles: An X-ray Diffraction and Raman Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18603-18612	3.8	10
30	Monazite as a suitable actinide waste form. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013 , 228, 113-123	1	54
29	Phase transformations in xenotime rare-earth orthophosphates. <i>Acta Materialia</i> , 2013 , 61, 6933-6947	8.4	21
28	High-pressure polymorphs of TbVO ₄ : A Raman and ab initio study. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 327-335	5.7	39

27	Performance of DFT+U method for prediction of structural and thermodynamic parameters of monazite-type ceramics. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1339-46	3.5	43
26	Polymorphs of CaSeO ₄ under pressure: a first-principles study of structural, electronic, and vibrational properties. <i>Inorganic Chemistry</i> , 2015 , 54, 1765-77	5.1	27
25	Electronic structure and optical properties of TbPO ₄ : Experiment and density functional theory calculations. <i>Optical Materials</i> , 2015 , 47, 484-489	3.3	12
24	Exploring the high-pressure behavior of the three known polymorphs of BiPO ₄ : Discovery of a new polymorph. <i>Journal of Applied Physics</i> , 2015 , 117, 105902	2.5	49
23	Structure and stability of monazite- and zircon-type LaVO ₄ under hydrostatic pressure. <i>Optical Materials</i> , 2015 , 49, 32-38	3.3	20
22	Pressure-induced zircon to monazite phase transition in Y _{1-x} La _x PO ₄ : First-principles calculations. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1513-1518	0.9	4
21	Phase transformations and indications for acoustic mode softening in Tb-Gd orthophosphate. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 035403	1.8	12
20	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO and TmPO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095401	1.8	31
19	Recent progress on synthesis and structural aspects of rare-earth phosphates. <i>Coordination Chemistry Reviews</i> , 2017 , 340, 266-297	23.2	54
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17	Local Environment of Terbium(III) Ions in Layered Nanocrystalline Zirconium(IV) Phosphonate-Phosphate Ion Exchange Materials. <i>Inorganic Chemistry</i> , 2017 , 56, 8837-8846	5.1	24
16	Structural characterization of (Sm,Tb)PO ₄ solid solutions and pressure-induced phase transitions. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4070-4081	6	9
15	In situ Raman spectroscopy of pressure-induced phase transformations in polycrystalline TbPO ₄ , DyPO ₄ , and GdxDy(1-x)PO ₄ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2562-2570	3.8	5
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11	An infrared and Raman spectroscopic study of PbSO ₄ -anglesite at high pressures. <i>Physics and Chemistry of Minerals</i> , 2019 , 46, 623-637	1.6	5
10	Experimental and Theoretical Study of SbPO under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 287-307	5.1	9

9	High pressure crystal structures of orthovanadates and their properties. <i>Journal of Applied Physics</i> , 2020 , 128, 040903	2.5	15
8	Electrode and Electrolyte Materials From Atomistic Simulations: Properties of Li _x FePO ₄ Electrode and Zircon-Based Ionic Conductors. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	1
7	The role of ligands in pressure-induced phase transition of gold nanoribbons. <i>Phase Transitions</i> , 2021 , 94, 123-133	1.3	0
6	In situ synchrotron diffraction of pressure-induced phase transition in DyPO ₄ under variable hydrostaticity. <i>Physical Review B</i> , 2021 , 103,	3.3	1
5	Retrospective Comparison of a Novel-Triple Row to Modified Mason Allen Rotator Cuff Repair in a Worker's Comp Population. <i>MOJ Orthopedics & Rheumatology</i> , 2015 , 3,	2	
4	Crystal Chemistry and Thermodynamics of HREE (Er, Yb) Mixing in a Xenotime Solid Solution. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
3	Phase Transformation Pathway of DyPO ₄ to 21.5 GPa. 2023 , 13, 249		0
2	High-Pressure Structural and Thermodynamic Properties of Cerium Orthosilicates (CeSiO ₄). 2023 , 127, 4225-4238		0
1	Pressure-induced structural phase transitions in natural monazite. 2023 , 107,		0