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In situ high-pressure synchrotron x-ray diffraction study of CeVO₄ and TbVO₄ up to 50 GPa

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#	Paper	IF	Citations
59	Raman spectroscopic studies on CeVO ₄ at high pressures. <i>Journal of Physics: Conference Series</i> , 2012 , 377, 012010	0.3	3
58	The high-pressure monazite-to-scheelite transformation in CaSeO ₄ . <i>Mineralogical Magazine</i> , 2012 , 76, 913-923	1.7	8
57	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite. <i>Physical Review B</i> , 2012 , 86,	3.3	18
56	Experimental and theoretical investigations on the polymorphism and metastability of BiPO ₄ . <i>Dalton Transactions</i> , 2013 , 42, 14999-5015	4.3	56
55	Physical properties of zircon and scheelite lutetium orthovanadate: Experiment and first-principles calculation. <i>Journal of Solid State Chemistry</i> , 2013 , 205, 97-103	3.3	10
54	Phase transition and possible metallization in CeVO ₄ under pressure. <i>Journal of Solid State Chemistry</i> , 2013 , 203, 273-280	3.3	33
53	Pressure-induced phase transition for ScVO ₄ : A first-principles study. <i>Physica B: Condensed Matter</i> , 2013 , 426, 20-23	2.8	2
52	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
51	Structural, elastic and electronic properties of CeVO ₄ via first-principles calculations. <i>Computational Materials Science</i> , 2013 , 79, 811-816	3.2	9
50	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
49	First-principles calculations of structural, magnetic phase stability and electronic properties of RVO ₄ compounds. <i>Computational Materials Science</i> , 2013 , 68, 361-366	3.2	10
48	Pressure-induced transformations in PrVO ₄ and SmVO ₄ and isolation of high-pressure metastable phases. <i>Inorganic Chemistry</i> , 2013 , 52, 5464-9	5.1	49
47	Comment on High-pressure x-ray diffraction study of YBO ₃ /Eu ³⁺ , GdBO ₃ , and EuBO ₃ : Pressure-induced amorphization in GdBO ₃ [J. Appl. Phys. 115, 043507 (2014)]. <i>Journal of Applied Physics</i> , 2014 , 115, 216101	2.5	113
46	High-pressure structural behaviour of HoVO ₄ : combined XRD experiments and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 265402	1.8	47
45	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO ₄ and LaVO ₄ . <i>Materials Research Bulletin</i> , 2014 , 50, 279-284	5.1	49
44	Equation of state of zircon- and scheelite-type dysprosium orthovanadates: a combined experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 025401	1.8	12
43	Structural, electronic and thermal properties of XVO ₄ (X = Y, Gd) vanadate crystals. <i>Computational Materials Science</i> , 2014 , 93, 125-132	3.2	9

42	High-pressure structural transformations of PbCrO ₄ up to 51.2 GPa: An angle-dispersive synchrotron X-ray diffraction study. <i>Materials Research Bulletin</i> , 2014 , 60, 206-211	5.1	10
41	A combined study of the equation of state of monazite-type lanthanum orthovanadate using in situ high-pressure diffraction and ab initio calculations. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 533-8	1.8	13
40	Exploring the properties of MTO ₄ compounds using high-pressure powder x-ray diffraction. <i>Crystal Research and Technology</i> , 2015 , 50, 729-736	1.3	36
39	Equation of state and electronic properties of EuVO ₄ : A high-pressure experimental and computational study. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 1005-1016	5.7	15
38	Pressure-Induced Phase Transformations of Zircon-Type LaVO ₄ Nanorods. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8364-8372	3.8	25
37	On the mutual solubility in MMoO ₄ -LnVO ₄ systems, where M = Ca, Cd, Sr, Ba, Pb, Ln = Y, Sc, Ce-Lu. <i>Journal of Structural Chemistry</i> , 2015 , 56, 77-84	0.9	1
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35	Phase Stability of Lanthanum Orthovanadate at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13749-13762	3.8	36
34	Exploring the coordination change of vanadium and structure transformation of metavanadate MgVO under high pressure. <i>Scientific Reports</i> , 2016 , 6, 38566	4.9	16
33	Deformation Behavior across the Zircon-Scheelite Phase Transition. <i>Physical Review Letters</i> , 2016 , 117, 135701	7.4	28
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30	High-pressure phase transitions and properties of MTO ₄ compounds with the monazite-type structure. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700016	1.3	17
29	Pressure-Driven Isostructural Phase Transition in InNbO: In Situ Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2017 , 56, 5420-5430	5.1	24
28	Pressure and Temperature Study on the Structural Stability of GdNbO ₄ :Eu ³⁺ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14787-14794	3.8	18
27	ScVO under non-hydrostatic compression: a new metastable polymorph. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 055401	1.8	19
26	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO. <i>Inorganic Chemistry</i> , 2017 , 56, 8363-8371	5.1	12
25	High-pressure lattice-dynamics of NdVO ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 100, 126-133	3.9	20

24	In situ Raman spectroscopy of pressure-induced phase transformations in polycrystalline TbPO ₄ , DyPO ₄ , and Gd _x Dy(1-x)PO ₄ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2562-2570	3.8	5
23	Recent progress on the characterization of the high-pressure behaviour of AVO ₄ orthovanadates. <i>Progress in Materials Science</i> , 2018 , 97, 123-169	42.2	66
22	Phase transition systematics in BiVO ₄ by means of high-pressure-high-temperature Raman experiments. <i>Physical Review B</i> , 2018 , 98,	3.3	15
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20	First-principles calculations of structural, electronic, magnetic, elastic and optical properties of tetragonal zircon-type CeVO ₄ . <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850239	1.1	0
19	High Pressure Raman, Optical Absorption, and Resistivity Study of SrCrO. <i>Inorganic Chemistry</i> , 2018 , 57, 7550-7557	5.1	15
18	Exploring the high-pressure behaviour of polymorphs of AMO ₄ ternary oxides: crystal structure and physical properties. <i>Journal of Chemical Sciences</i> , 2019 , 131, 1	1.8	4
17	High-pressure phase transformations in NdVO under hydrostatic conditions: a structural powder x-ray diffraction study. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 235401	1.8	10
16	Characterization of Flux-Grown Sm _x Nd _{1-x} VO ₄ Compounds and High-Pressure Behavior for x = 0.5. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30732-30745	3.8	4
15	High pressure crystal structures of orthovanadates and their properties. <i>Journal of Applied Physics</i> , 2020 , 128, 040903	2.5	15
14	Phase Behavior of TmVO under Hydrostatic Compression: An Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2020 , 59, 4882-4894	5.1	5
13	A novel approach to the structural distortions of U/Th snub-disphenoids and their control on zircon -sreidite type phase transitions of U Th SiO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 145401	1.8	1
12	Insights into the structural variations in SmNbTaO and HoNbTaO combined experimental and computational studies. <i>Dalton Transactions</i> , 2021 , 50, 9103-9117	4.3	1
11	Synthesis of Materials Under High Pressure. <i>Indian Institute of Metals Series</i> , 2021 , 153-195	0.3	
10	High-pressure monoclinic-monoclinic transition in fergusonite-type HoNbO. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	4
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8	Phase transformations of zircon-type DyVO ₄ at high pressures up to 36.4 GPa: X-ray diffraction measurements. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 159926	5.7	1
7	PrVO under High Pressure: Effects on Structural, Optical, and Electrical Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 18325-18337	5.1	3

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4	Competing dynamical and lattice instabilities in RVO ₄ rare-earth vanadium oxides under high pressure. <i>Physical Review Materials</i> , 2022 , 6,	3.2	0
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2	High-pressure behavior of gasparite-(Ce) (nominally CeAsO ₄), a monazite-type arsenate. 2022 , 49,		0
1	High-Pressure Structural and Thermodynamic Properties of Cerium Orthosilicates (CeSiO ₄). 2023 , 127, 4225-4238		0