

# Alka B Garg

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9120669/publications.pdf>

Version: 2024-02-01

36  
papers

670  
citations

623574

14  
h-index

580701

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress on the characterization of the high-pressure behaviour of AVO <sub>4</sub> orthovanadates. Progress in Materials Science, 2018, 97, 123-169.	16.0	105
2	High-pressure structural behaviour of HoVO <sub>4</sub> : combined XRD experiments and <i>ab initio</i> calculations. Journal of Physics Condensed Matter, 2014, 26, 265402.	0.7	58
3	Investigation of the phase stability of LuVO <sub>4</sub> at high pressure using powder x-ray diffraction measurements and lattice dynamical calculations. Journal of Physics Condensed Matter, 2008, 20, 075223.	0.7	45
4	High pressure Raman scattering study on the phase stability of LuVO <sub>4</sub> . Journal of Solid State Chemistry, 2009, 182, 1879-1883.	1.4	45
5	High-pressure powder x-ray diffraction study of EuVO <sub>4</sub> . Journal of Solid State Chemistry, 2015, 226, 147-153.	1.4	41
6	Phase transition and possible metallization in CeVO <sub>4</sub> under pressure. Journal of Solid State Chemistry, 2013, 203, 273-280.	1.4	37
7	Phase stability of YbVO <sub>4</sub> under pressure: <i>In situ</i> x-ray and Raman spectroscopic investigations. Journal of Applied Physics, 2009, 106, .	1.1	35
8	Pressure-Driven Isostructural Phase Transition in InNbO <sub>4</sub> : In Situ Experimental and Theoretical Investigations. Inorganic Chemistry, 2017, 56, 5420-5430.	1.9	29
9	ScVO <sub>4</sub> under non-hydrostatic compression: a new metastable polymorph. Journal of Physics Condensed Matter, 2017, 29, 055401.	0.7	29
10	Electrical resistance measurements in a diamond anvil cell to 40 GPa on ytterbium. Review of Scientific Instruments, 2004, 75, 2475-2478.	0.6	27
11	Pressure-induced phase transformation in zircon-type orthovanadate SmVO <sub>4</sub> from experiment and theory. Journal of Physics Condensed Matter, 2016, 28, 035402.	0.7	25
12	Investigation on the Luminescence Properties of InMO <sub>4</sub> (M = V <sup>5+</sup> ), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Earth Ions. ACS Omega, 2020, 5, 2148-2158.	1.6	24
13	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO <sub>4</sub> . Inorganic Chemistry, 2018, 57, 10265-10276.	1.9	16
14	Pressure-induced instability of the fergusonite phase of EuNbO <sub>4</sub> studied by <i>in situ</i> Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. Journal of Applied Physics, 2020, 127, .	1.1	14
15	High-Pressure Properties of Wolframite-Type ScNbO <sub>4</sub> . Journal of Physical Chemistry C, 2022, 126, 4664-4676.	1.5	14
16	The role of Jahn–Teller distortion in insulator to semiconductor phase transition in organic–inorganic hybrid compound (p-chloroanilinium) <sub>2</sub> CuCl <sub>4</sub> at high pressure. Physical Chemistry Chemical Physics, 2015, 17, 32204-32210.	1.3	11
17	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb <sub>2</sub> O <sub>6</sub> . Journal of Applied Physics, 2020, 128, .	1.1	9
18	High-pressure monoclinic–monoclinic transition in fergusonite-type HoNbO <sub>4</sub> . Journal of Physics Condensed Matter, 2021, 33, 195401.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Compression effect on structure of the Li-stabilized high-temperature phase of Mn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> with composition Li <sub>0.2</sub> Mn <sub>2.9</sub> (VO <sub>4</sub> ) <sub>2</sub> - Raman spectroscopic and X-ray diffraction investigations. Journal of Alloys and Compounds, 2021, 870, 159418.	2.8	9
20	Effect of pressure on electrical resistance of WSe <sub>2</sub> single crystal. Pramana - Journal of Physics, 2003, 61, 183-186.	0.9	8
21	High pressure stability of bismuth sillenite: A Raman spectroscopic and x-ray diffraction study. Journal of Applied Physics, 2010, 108, 083508.	1.1	8
22	Pressure-Induced Structural Behavior of Orthorhombic Mn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> : Raman Spectroscopic and X-ray Diffraction Investigations. ACS Omega, 2022, 7, 3099-3108.	1.6	8
23	Electronic topological and structural transitions in AuGa <sub>2</sub> under pressure. Journal of Physics Condensed Matter, 2006, 18, 8523-8532.	0.7	7
24	Pressure-induced volume anomaly and structural phase transition in nanocrystalline SnO <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2014, 251, 1380-1385.	0.7	7
25	High-pressure studies on the properties of FeGaMn <sub>3</sub> : Role of on-site Coulomb correlation. Physical Review B, 2017, 95, .		
26	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound TaVO <sub>5</sub> . Inorganic Chemistry, 2018, 57, 6973-6980.	1.9	7
27	Monoclinic to triclinic phase transition induced by pressure in fergusonite-type YbNbO <sub>4</sub> . Journal of Physics Condensed Matter, 2022, 34, 174007.	0.7	7
28	Electrical resistance measurements under pressure on NbTe <sub>2</sub> single crystal. High Pressure Research, 2003, 23, 379-387.	0.4	6
29	LiCrO <sub>2</sub> Under Pressure: In-Situ Structural and Vibrational Studies. Crystals, 2019, 9, 2.	1.0	6
30	Pressure Induced Phase Transitions In SmVO <sub>4</sub> : An In-Situ Raman Study. , 2010, , .		5
31	A CCD area detector for X-ray diffraction under high pressure for rotating anode source. Bulletin of Materials Science, 2000, 23, 151-154.	0.8	3
32	Amorphization-decomposition behavior of HfW <sub>2</sub> O <sub>8</sub> at high pressure. Journal of Applied Physics, 2008, 104, 063506.	1.1	3
33	Pressure driven structural phase transition in EuTaO <sub>4</sub> : experimental and first principles investigations. Journal of Physics Condensed Matter, 2022, 34, 135401.	0.7	3
34	A CCD based detector for quick detection of pressure induced phase transitions. High Pressure Research, 2001, 21, 51-64.	0.4	1
35	Structural Evolution of BaVS <sub>3</sub> Under Pressure. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 661-667.	0.3	1
36	Structural Metamorphosis and Band Dislocation of Trirutile NiTa <sub>2</sub> O <sub>6</sub> under Compression. Journal of Physical Chemistry C, 2022, 126, 4106-4117.	1.5	1