

# 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	Pressure driven structural phase transition in $\text{EuTaO}_4$ : experimental and first principles investigations. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 135401.	0.7	3
2	Pressure-Induced Structural Behavior of Orthorhombic $\text{Mn}_3(\text{VO}_4)_2$ : Raman Spectroscopic and X-ray Diffraction Investigations. <i>ACS Omega</i> , 2022, 7, 3099-3108.	1.6	8
3	Monoclinic $\leftrightarrow$ triclinic phase transition induced by pressure in fergusonite-type $\text{YbNbO}_4$ . <i>Journal of Physics Condensed Matter</i> , 2022, 34, 174007.	0.7	7
4	Structural Metamorphosis and Band Dislocation of Trirutile $\text{NiTa}_2\text{O}_6$ under Compression. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4106-4117.	1.5	1
5	High-Pressure Properties of Wolframite-Type $\text{ScNbO}_4$ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 4664-4676.	1.5	14
6	High-pressure monoclinic $\leftrightarrow$ monoclinic transition in fergusonite-type $\text{HoNbO}_4$ . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 195401.	0.7	9
7	Compression effect on structure of the Li-stabilized high-temperature phase of $\text{Mn}_3(\text{VO}_4)_2$ with composition $\text{Li}_{0.2}\text{Mn}_{2.9}(\text{VO}_4)_2$ - Raman spectroscopic and X-ray diffraction investigations. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159418.	2.8	9
8	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured $\text{NiNb}_2\text{O}_6$ . <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	9
9	Pressure-induced instability of the fergusonite phase of $\text{EuNbO}_4$ studied by <i>in situ</i> Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	14
10	Investigation on the Luminescence Properties of $\text{InMO}_4$ ( $\text{M} = \text{V}^{5+}$ ), $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387}$ Earth Ions. <i>ACS Omega</i> , 2020, 5, 2148-2158.	1.6	24
11	$\text{LiCrO}_2$ Under Pressure: In-Situ Structural and Vibrational Studies. <i>Crystals</i> , 2019, 9, 2.	1.0	6
12	Recent progress on the characterization of the high-pressure behaviour of $\text{AVO}_4$ orthovanadates. <i>Progress in Materials Science</i> , 2018, 97, 123-169.	16.0	105
13	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type $\text{LiNiPO}_4$ . <i>Inorganic Chemistry</i> , 2018, 57, 10265-10276.	1.9	16
14	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound $\text{TaVO}_5$ . <i>Inorganic Chemistry</i> , 2018, 57, 6973-6980.	1.9	7
15	Pressure-Driven Isostructural Phase Transition in $\text{InNbO}_4$ : In Situ Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2017, 56, 5420-5430.	1.9	29
16	$\text{ScVO}_4$ under non-hydrostatic compression: a new metastable polymorph. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 055401.	0.7	29
17	High-pressure studies on the properties of $\text{FeGa}_3$ : Role of on-site Coulomb correlation. <i>Physical Review B</i> , 2017, 95, .		
18	Pressure-induced phase transformation in zircon-type orthovanadate $\text{SmVO}_4$ from experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 035402.	0.7	25

#	ARTICLE	IF	CITATIONS
19	High-pressure powder x-ray diffraction study of EuVO <sub>4</sub> . Journal of Solid State Chemistry, 2015, 226, 147-153.	1.4	41
20	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
21	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
22	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
23	Phase transition and possible metallization in CeVO <sub>4</sub> under pressure. Journal of Solid State Chemistry, 2013, 203, 273-280.	1.4	37
24	High pressure stability of bismuth sillenite: A Raman spectroscopic and x-ray diffraction study. Journal of Applied Physics, 2010, 108, 083508.	1.1	8
25	Pressure Induced Phase Transitions In SmVO <sub>4</sub> : An In-Situ Raman Study. , 2010, , .		5
26	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
27	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
28	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
29	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
30	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
31	Electronic topological and structural transitions in AuGa <sub>2</sub> under pressure. Journal of Physics Condensed Matter, 2006, 18, 8523-8532.	0.7	7
32	Electrical resistance measurements in a diamond anvil cell to 40 GPa on ytterbium. Review of Scientific Instruments, 2004, 75, 2475-2478.	0.6	27
33	Effect of pressure on electrical resistance of WSe <sub>2</sub> single crystal. Pramana - Journal of Physics, 2003, 61, 183-186.	0.9	8
34	Electrical resistance measurements under pressure on NbTe <sub>2</sub> single crystal. High Pressure Research, 2003, 23, 379-387.	0.4	6
35	A CCD based detector for quick detection of pressure induced phase transitions. High Pressure Research, 2001, 21, 51-64.	0.4	1
36	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