

Ravhi S Kumar

List of Publications by Year in descending order

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69
papers

1,928
citations

236612

25
h-index

264894

42
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72
all docs

72
docs citations

72
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure structural, elastic, and electronic properties of the scintillator host material $KMgF_3$. Physical Review B, 2007, 76, .	1.1	162
2	Characteristics of silicone fluid as a pressure transmitting medium in diamond anvil cells. Review of Scientific Instruments, 2004, 75, 4450-4454.	0.6	126
3	Effect of Pressure and Temperature on Structural Stability of MoS_2 . Journal of Physical Chemistry C, 2014, 118, 3230-3235.	1.5	110
4	High-pressure X-ray diffraction study of $SrMoO_4$ and pressure-induced structural changes. Journal of Solid State Chemistry, 2008, 181, 355-364.	1.4	94
5	Reaction mechanism studies towards effective fabrication of lithium-rich anti-perovskites Li_3OX (X= Tj, ET, Qq, l, 1, 0.78, 43, 14, rg, BT, /Overlo	1.3	89
6	Crystal and Electronic Structure of FeSe at High Pressure and Low Temperature. Journal of Physical Chemistry B, 2010, 114, 12597-12606.	1.2	79
7	Post-spinel transformations and equation of state in $ZnGa_2S_4$. Determination at high pressure by in situ x-ray diffraction. Physical Review B, 2009, 79, .	1.1	77
8	Structural transitions in $NaBH_4$ under pressure. Applied Physics Letters, 2005, 87, 261916.	1.5	66
9	Vanadium Diboride (VB_2) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. Inorganic Chemistry, 2018, 57, 1096-1105.	1.9	64
10	Compressibility of Nb_2AsC to 41 GPa. Applied Physics Letters, 2005, 86, 111904.	1.5	62
11	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite $ZnGa_2Se_4$ and defect-chalcopyrite $CdGa_2S_4$. Journal of Applied Physics, 2008, 104, .	1.1	58
12	Pressure induced structural transitions in $CuSbS_2$ and $CuSbSe_2$ thermoelectric compounds. Journal of Alloys and Compounds, 2015, 643, 186-194.	2.8	54
13	X-ray Raman scattering studies on C_{60} fullerenes and multi-walled carbon nanotubes under pressure. Diamond and Related Materials, 2007, 16, 1250-1253.	1.8	53
14	Enhanced ionic conductivity with $Li_7O_2Br_3$ phase in Li_3OBr anti-perovskite solid electrolyte. Applied Physics Letters, 2016, 109, .	1.5	48
15	High-pressure structural study of fluoro-perovskite $CsCdF_3$ to 60 GPa: A combined experimental and theoretical study. Physical Review B, 2010, 81, .	1.1	46
16	Experimental and theoretical investigation of $ThGeO_4$ at high pressure. Physical Review B, 2009, 80, .	1.1	40
17	Pressure-Driven Phase Transitions in $NaBH_4$: Theory and Experiments. Journal of Physical Chemistry B, 2007, 111, 13873-13876.	1.2	37
18	Structural Phase Transitions in the Potential Hydrogen Storage Compound KBH_4 under Compression. Journal of Physical Chemistry C, 2008, 112, 8452-8457.	1.5	34

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19	Structure of nanocrystalline ZnO up to 85GPa. Current Applied Physics, 2007, 7, 135-138.	1.1	32
20	Structural studies of CuAlSe ₂ and CuAlS ₂ chalcopyrites at high pressures. Journal of Alloys and Compounds, 2000, 312, 4-8.	2.8	30
21	High pressure transport characteristics of Bi ₂ Te ₃ , Sb ₂ Te ₃ , and BiSbTe ₃ . Journal of Physics and Chemistry of Solids, 2012, 73, 1154-1158.	1.9	30
22	Compressibility of CeMn ₅ and Ce ₂ Mn ₈ (M = Rh, Ir, and Co) compounds. Physical Review B, 2004, 70, .	1.1	29
23	Pressure induced structural changes in the potential hydrogen storage compound ammonia borane: A combined X-ray, neutron and theoretical investigation. Chemical Physics Letters, 2010, 495, 203-207.	1.2	28
24	Pressure-induced valence change in YbAl_3 . A combined high-pressure inelastic x-ray scattering and theoretical investigation. Physical Review B, 2008, 78, .	1.1	27
25	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite. Physical Review B, 2012, 86, .	1.1	27
26	Structural stability of WS_2 under high pressure. International Journal of Modern Physics B, 2014, 28, 1450168.	1.0	26
27	Pressure induced structural phase transition in AgSbTe ₂ . Physical Review B, 2005, 72, .	1.1	23
28	Pressure-induced structural phase transition in NaAlH ₄ . Physical Review B, 2007, 75, .	1.1	23
29	Heat capacity studies of Ce and Rh site substitution in the heavy-fermion antiferromagnet CeRhIn ₅ : Short-range magnetic interactions and non-Fermi-liquid behavior. Physical Review B, 2004, 69, .	1.1	22
30	Pressure-induced structural transitions in Tb-pyrochlore oxides. Applied Physics Letters, 2006, 88, 031903.	1.5	21
31	Anisotropic elastic properties of CeRhIn ₅ . Physical Review B, 2004, 69, .	1.1	19
32	Structural behavior of non-oxide perovskite superconductor MgCNi ₃ at pressures up to 32GPa. Physica B: Condensed Matter, 2005, 363, 190-195.	1.3	17
33	High-pressure structural studies of dysprosium using angle-dispersive x-ray diffraction. Physical Review B, 2007, 75, .	1.1	17
34	Structural phase transitions in RbBH ₄ under compression. Journal of Alloys and Compounds, 2009, 476, 5-8.	2.8	16
35	Inelastic X-ray scattering experiments on B ₄ C under high static pressures. Diamond and Related Materials, 2010, 19, 530-532.	1.8	16
36	Pressure induced valence change of Eu in EuFe ₂ As ₂ at low temperature and high pressures probed by resonant inelastic x-ray scattering. Applied Physics Letters, 2014, 104, .	1.5	15

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37	Synthesis and high pressure studies of the semiconductor AgSbSe ₂ . Journal of Alloys and Compounds, 1999, 285, 48-50.	2.8	13
38	Pressure induced high spin-low spin transition in FeSe superconductor studied by x-ray emission spectroscopy and ab initio calculations. Applied Physics Letters, 2011, 99, 061913.	1.5	13
39	High pressure structure of Tb ₂ Ti ₂ O ₇ pyrochlore at cryogenic temperatures. Physica Status Solidi (B): Basic Research, 2007, 244, 266-269.	0.7	12
40	Pressure-Induced Valence and Structural Changes in YbMn ₂ Ge ₂ Inelastic X-ray Spectroscopy and Theoretical Investigations. Inorganic Chemistry, 2013, 52, 832-839.	1.9	12
41	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. Intermetallics, 2018, 95, 137-143.	1.8	12
42	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. Journal of Physical Chemistry Letters, 2021, 12, 1046-1051.	2.1	12
43	Pressure induced structural transition and enhancement of superconductivity in Co doped CeFeAsO. Applied Physics Letters, 2011, 98, 012511.	1.5	11
44	High-pressure structure of LaSr ₂ Mn ₂ O ₇ bilayer manganite. Journal of Physics and Chemistry of Solids, 2006, 67, 2046-2050.	1.9	10
45	Bonding changes in single wall carbon nanotubes (SWCNT) on Ti and TiH ₂ addition probed by X-ray Raman scattering. Diamond and Related Materials, 2007, 16, 1136-1139.	1.8	9
46	High pressure structural and transport measurements of InTe, GaTe, and InGaTe ₂ . Journal of Physics and Chemistry of Solids, 2013, 74, 723-728.	1.9	9
47	Pressure-induced superconductivity in LaFeAsO: The role of anionic height and magnetic ordering. Applied Physics Letters, 2014, 105, .	1.5	9
48	High pressure structural studies on SrRuO ₃ . Journal of Physics and Chemistry of Solids, 2008, 69, 2237-2239.	1.9	8
49	Effect of pressure and temperature on structural stability of potential hydrogen storage compound Li ₃ AlH ₆ . Chemical Physics Letters, 2008, 460, 442-446.	1.2	8
50	Structural Phase Transitions and Thermoelectric Properties of AgPb ₁₈ SbTe ₂₀ Under Compression. Journal of Electronic Materials, 2010, 39, 1828-1831.	1.0	8
51	Giant Pressure-Induced Enhancement of Seebeck Coefficient and Thermoelectric Efficiency in SnTe. ChemPhysChem, 2017, 18, 3315-3319.	1.0	8
52	Transport Properties of Ni and PbTe Under Pressure. Journal of Electronic Materials, 2012, 41, 633-638.	1.0	7
53	High-pressure Seebeck coefficients and thermoelectric behaviors of Bi and PbTe measured using a Paris-Edinburgh cell. Journal of Synchrotron Radiation, 2016, 23, 1368-1378.	1.0	7
54	Structural, electrical, and thermoelectric properties of CrSi ₂ thin films. Thin Solid Films, 2013, 545, 100-105.	0.8	6

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55	Disturbing the spin liquid state in Tb ₂ Ti ₂ O ₇ : Heat capacity measurements on rare earth titanates. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 1243-1245.	1.3	5
56	Response to "Comment on "Characteristics of silicone fluid as a pressure transmitting medium in diamond anvil cells" [Rev. Sci. Instrum. 75, 4450 (2004)]. <i>Review of Scientific Instruments</i> , 2005, 76, 057102.	0.6	5
57	Structural studies on Na _{0.75} CoO ₂ thermoelectric material at high pressures. <i>Solid State Communications</i> , 2009, 149, 1712-1716.	0.9	5
58	High pressure transport and structural studies on Nb ₃ Ga superconductor. <i>Physica B: Condensed Matter</i> , 2015, 459, 21-23.	1.3	5
59	Equation of state of nanocrystalline BaTiO ₃ up to 52 GPa at room temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 290-294.	0.7	4
60	Synthesis, structural and magnetic properties of spin ladder compound Ca _{1-x} CoxCu ₂ O ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3033-3037.	1.0	3
61	Effect of Pressure on Valence and Structural Properties of YbFe ₂ Ge ₂ Heavy Fermion Compound "A Combined Inelastic X-ray Spectroscopy, X-ray Diffraction, and Theoretical Investigation. <i>Inorganic Chemistry</i> , 2015, 54, 10250-10255.	1.9	3
62	Correlation between superconductivity and structural properties under high pressure of iron pnictide superconductor Ce _{0.6} Y _{0.4} FeAsO _{0.8} F _{0.2} . <i>Applied Physics Letters</i> , 2012, 100, 052601.	1.5	2
63	Effect of pressure on crystal structure and superconductivity of Nb _{5-x} Te ₂ (x = 2, 1.5). <i>Chemical Physics Letters</i> , 2018, 692, 249-252.	1.2	2
64	Pressure effect on the antiferromagnetic compound Ce ₂ Ni ₃ Ge ₅ . <i>AIP Advances</i> , 2018, 8, 101323.	0.6	2
65	The crystal structure of CeRhIn ₅ under pressure. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 407-409.	1.3	1
66	Uranium (and Cerium) Compounds At High Pressures and Magnetic Fields. <i>Materials Research Society Symposia Proceedings</i> , 2003, 802, 244.	0.1	0
67	Structural Properties of GdSr ₂ RuCu ₂ O ₈ under Strong Compression. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
68	Pressure effect on crystal structure and superconductivity of La _{0.8} Th _{0.2} FeAsO. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 208-210.	1.2	0
69	Materials Research at University of Nevada, Las Vegas. <i>Materials Science Forum</i> , 2016, 879, 386-389.	0.3	0