

Ravhi S Kumar

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68
papers

1,576
citations

24
h-index

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g-index

72
ext. papers

1,752
ext. citations

3.2
avg, IF

4.15
L-index

#	Paper	IF	Citations
68	High-pressure structural, elastic, and electronic properties of the scintillator host material KMgF ₃ . <i>Physical Review B</i> , 2007 , 76,	3.3	128
67	Characteristics of silicone fluid as a pressure transmitting medium in diamond anvil cells. <i>Review of Scientific Instruments</i> , 2004 , 75, 4450-4454	1.7	116
66	Effect of Pressure and Temperature on Structural Stability of MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3230-3235	3.8	84
65	High-pressure X-ray diffraction study of SrMoO ₄ and pressure-induced structural changes. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 355-364	3.3	80
64	Crystal and electronic structure of FeSe at high pressure and low temperature. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12597-606	3.4	73
63	Post-spinel transformations and equation of state in ZnGa ₂ O ₄ : Determination at high pressure by in situ x-ray diffraction. <i>Physical Review B</i> , 2009 , 79,	3.3	64
62	Structural transitions in NaBH ₄ under pressure. <i>Applied Physics Letters</i> , 2005 , 87, 261916	3.4	61
61	Compressibility of Nb ₂ AsC to 41 GPa. <i>Applied Physics Letters</i> , 2005 , 86, 111904	3.4	60
60	Reaction mechanism studies towards effective fabrication of lithium-rich anti-perovskites Li ₃ OX (X= Cl, Br). <i>Solid State Ionics</i> , 2016 , 284, 14-19	3.3	58
59	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa ₂ Se ₄ and defect-chalcopyrite CdGa ₂ S ₄ . <i>Journal of Applied Physics</i> , 2008 , 104, 063524	2.5	48
58	X-ray Raman scattering studies on C ₆₀ fullerenes and multi-walled carbon nanotubes under pressure. <i>Diamond and Related Materials</i> , 2007 , 16, 1250-1253	3.5	45
57	Pressure induced structural transitions in CuSbS ₂ and CuSbSe ₂ thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 643, 186-194	5.7	41
56	Vanadium Diboride (VB) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. <i>Inorganic Chemistry</i> , 2018 , 57, 1096-1105	5.1	39
55	Experimental and theoretical investigation of ThGeO ₄ at high pressure. <i>Physical Review B</i> , 2009 , 80,	3.3	35
54	Pressure-driven phase transitions in NaBH ₄ : theory and experiments. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13873-6	3.4	32
53	Structural Phase Transitions in the Potential Hydrogen Storage Compound KBH ₄ under Compression. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8452-8457	3.8	30
52	Structure of nanocrystalline ZnO up to 85 GPa. <i>Current Applied Physics</i> , 2007 , 7, 135-138	2.6	30

51	High-pressure structural study of fluoro-perovskite CsCdF ₃ up to 60 GPa: A combined experimental and theoretical study. <i>Physical Review B</i> , 2010 , 81,	3.3	29
50	High pressure transport characteristics of Bi ₂ Te ₃ , Sb ₂ Te ₃ , and BiSbTe ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1154-1158	3.9	27
49	Pressure induced structural changes in the potential hydrogen storage compound ammonia borane: A combined X-ray, neutron and theoretical investigation. <i>Chemical Physics Letters</i> , 2010 , 495, 203-207	2.5	27
48	Enhanced ionic conductivity with Li ₇ O ₂ Br ₃ phase in Li ₃ OBr anti-perovskite solid electrolyte. <i>Applied Physics Letters</i> , 2016 , 109, 101904	3.4	27
47	Compressibility of CeMIn ₅ and Ce ₂ MIn ₈ (M=Rh, Ir, and Co) compounds. <i>Physical Review B</i> , 2004 , 70,	3.3	25
46	Structural studies of CuAlSe ₂ and CuAlS ₂ chalcopyrites at high pressures. <i>Journal of Alloys and Compounds</i> , 2000 , 312, 4-8	5.7	25
45	Pressure-induced valence change in YbAl ₃ : A combined high-pressure inelastic x-ray scattering and theoretical investigation. <i>Physical Review B</i> , 2008 , 78,	3.3	24
44	Pressure induced structural phase transition in AgSbTe ₂ . <i>Physical Review B</i> , 2005 , 72,	3.3	21
43	Structural stability of WS ₂ under high pressure. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450168	1.6	20
42	Pressure-induced structural transitions in Tb-pyrochlore oxides. <i>Applied Physics Letters</i> , 2006 , 88, 031903	3.4	20
41	Pressure-induced structural phase transition in NaAlH ₄ . <i>Physical Review B</i> , 2007 , 75,	3.3	20
40	Anisotropic elastic properties of CeRhIn ₅ . <i>Physical Review B</i> , 2004 , 69,	3.3	19
39	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. <i>Physical Review B</i> , 2004 , 69,	3.3	19
38	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite. <i>Physical Review B</i> , 2012 , 86,	3.3	18
37	Structural behavior of non-oxide perovskite superconductor MgCNi ₃ at pressures up to 32 GPa. <i>Physica B: Condensed Matter</i> , 2005 , 363, 190-195	2.8	17
36	Structural phase transitions in RbBH ₄ under compression. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 5-8	5.7	14
35	High-pressure structural studies of dysprosium using angle-dispersive x-ray diffraction. <i>Physical Review B</i> , 2007 , 75,	3.3	13
34	Pressure induced high spin-low spin transition in FeSe superconductor studied by x-ray emission spectroscopy and ab initio calculations. <i>Applied Physics Letters</i> , 2011 , 99, 061913	3.4	12

33	Inelastic X-ray scattering experiments on B4C under high static pressures. <i>Diamond and Related Materials</i> , 2010 , 19, 530-532	3.5	12
32	Pressure-induced valence and structural changes in YbMn2Ge2-inelastic X-ray spectroscopy and theoretical investigations. <i>Inorganic Chemistry</i> , 2013 , 52, 832-9	5.1	11
31	Pressure induced valence change of Eu in EuFe2As2 at low temperature and high pressures probed by resonant inelastic x-ray scattering. <i>Applied Physics Letters</i> , 2014 , 104, 042601	3.4	11
30	Pressure induced structural transition and enhancement of superconductivity in Co doped CeFeAsO. <i>Applied Physics Letters</i> , 2011 , 98, 012511	3.4	11
29	Synthesis and high pressure studies of the semiconductor AgSbSe2. <i>Journal of Alloys and Compounds</i> , 1999 , 285, 48-50	5.7	11
28	Structural Phase Transitions and Thermoelectric Properties of AgPb18SbTe20 Under Compression. <i>Journal of Electronic Materials</i> , 2010 , 39, 1828-1831	1.9	8
27	High pressure structure of Tb2Ti2O7 pyrochlore at cryogenic temperatures. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 266-269	1.3	8
26	High pressure structural and transport measurements of InTe, GaTe, and InGaTe2. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 723-728	3.9	7
25	Giant Pressure-Induced Enhancement of Seebeck Coefficient and Thermoelectric Efficiency in SnTe. <i>ChemPhysChem</i> , 2017 , 18, 3315-3319	3.2	7
24	Transport Properties of Ni and PbTe Under Pressure. <i>Journal of Electronic Materials</i> , 2012 , 41, 633-638	1.9	7
23	Effect of pressure and temperature on structural stability of potential hydrogen storage compound Li3AlH6. <i>Chemical Physics Letters</i> , 2008 , 460, 442-446	2.5	7
22	High-pressure structure of LaSr2Mn2O7 bilayer manganite. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2046-2050	3.9	7
21	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. <i>Intermetallics</i> , 2018 , 95, 137-143	3.5	6
20	High-pressure Seebeck coefficients and thermoelectric behaviors of Bi and PbTe measured using a Paris-Edinburgh cell. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 1368-1378	2.4	6
19	Structural, electrical, and thermoelectric properties of CrSi2 thin films. <i>Thin Solid Films</i> , 2013 , 545, 100-105	10.5	6
18	Pressure-induced superconductivity in LaFeAsO: The role of anionic height and magnetic ordering. <i>Applied Physics Letters</i> , 2014 , 105, 251902	3.4	6
17	Bonding changes in single wall carbon nanotubes (SWCNT) on Ti and TiH2 addition probed by X-ray Raman scattering. <i>Diamond and Related Materials</i> , 2007 , 16, 1136-1139	3.5	6
16	High pressure transport and structural studies on Nb3Ga superconductor. <i>Physica B: Condensed Matter</i> , 2015 , 459, 21-23	2.8	5

15	High pressure structural studies on SrRuO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2237-2239		5
14	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	2.8	5
13	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	1.7	5
12	Structural studies on Na _{0.75} CoO ₂ thermoelectric material at high pressures. <i>Solid State Communications</i> , 2009 , 149, 1712-1716	1.6	4
11	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	1.3	4
10	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, 10250-5	5.1	3
9	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	2.8	2
8	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	3.4	2
7	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1046-1051	6.4	2
6	Effect of pressure on crystal structure and superconductivity of Nb _{5-x} Te _{2-x} (x = 2, 1.5). <i>Chemical Physics Letters</i> , 2018 , 692, 249-252	2.5	1
5	The crystal structure of CeRhIn ₅ under pressure. <i>Physica B: Condensed Matter</i> , 2005 , 359-361, 407-409	2.8	0
4	Pressure effect on the antiferromagnetic compound Ce ₂ Ni ₃ Ge ₅ . <i>AIP Advances</i> , 2018 , 8, 101323	1.5	0
3	Materials Research at University of Nevada, Las Vegas. <i>Materials Science Forum</i> , 2016 , 879, 386-389	0.4	
2	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	2.5	
1	Uranium (and Cerium) Compounds At High Pressures and Magnetic Fields. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 244		