V Kanchana

List of Publications by Year
in descending order

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74	1,666	257450 24	302126 39
papers	citations	h-index	g-index

74	74	74	1825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-pressure structural, elastic, and electronic properties of the scintillator host material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">K</mml:mi><mml:mi mathvariant="normal">Mg</mml:mi><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	3.2	162
2	First-principles study of elastic properties of CeO2, ThO2and PoO2. Journal of Physics Condensed Matter, 2006, 18, 9615-9624.	1.8	135
3	Elastic properties of MgCNi₃â€”a superconducting perovskite. Journal of Physics Condensed Matter, 2007, 19, 326214.	1.8	127
4	Density functional study of elastic and vibrational properties of the Heusler-type alloys<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub>	3.2	77
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2009, 80, . Thermoelectric properties of chalcopyrite type CuGaTe2 and chalcostibite CuSbS2. Journal of Applied Physics, 2013, 114, .	2.5	67
6	Elastic constants and high-pressure structural transitions in lanthanum monochalcogenides from experiment and theory. Physical Review B, 2007, 75, .	3.2	66
7	Phase Stability and Thermoelectric Properties of the Mineral FeS₂: An Ab Initio Study. Journal of Physical Chemistry C, 2013, 117, 21120-21131.	3.1	65
8	Structural, vibrational, and electrical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under hydrostatic pressure: Experiments and theory. Physical Review B, 2018, 97, .	3.2	63
9	Mechanical properties of Ti ₃ AlX (X = C, N): Ab initio study. Europhysics Letters, 2009, 87, 26006.	2.0	53
10	Electronic topological transition in LaSn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>under pressure. Physical Review B, 2012, 85, .	3.2	50
11	High-pressure structural study of fluoro-perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CsCdF</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> to 60 GPa: A combined experimental and theoretical study. Physical Review B, 2010, 81, .	3.2	46
12	Ab initiostudy of Heusler alloys Co₂XY (Xâ€‰=â€‰Cr, Mn, Fe; Yâ€‰=â€‰Al,â€‰Ga) under high pressure. Philosophical Magazine Letters, 2011, 91, 545-553.	1.2	44
13	Lattice dynamics and elastic properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:math>electron system: CeN. Physical Review B, 2011, 84, .	3.2	41
14	Calculated structural, elastic and electronic properties of SrCl2. Journal of Alloys and Compounds, 2008, 455, 480-484.	5.5	37
15	Thermoelectric properties of marcasite and pyrite FeX2 (X = Se, Te): a first principle study. RSC Advances, 2014, 4, 9424.	3.6	37
16	Electronic structure, transport, and phonons of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrAg</mml:mi><mml:mi>C</mml:mi><mml:mi>h</mml:mi><mml:mi mathvariant="normal">F</mml:mi></mml:mrow></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (xmlns:mml="	3.2	36
17	Review B, 2015, 92, . Ab initio study of Fermi surface and dynamical properties of Ni2XAl (X = Ti, V, Zr, Nb, Hf and Ta). Journal of Alloys and Compounds, 2014, 616, 527-534.	5.5	34
18	Electronic structure, optical properties, and bonding in alkaline-earth halofluoride scintillators: BaClF, BaBrF, and BaIF. Physical Review B, 2011, 83, .	3.2	33

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19	Ferromagnetically correlated clusters in semimetallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Heusler alloy and its thermoelectric properties. Physical Review B, 2018, 98, .	3.2	32
20	Magnetotransport properties of the correlated topological nodal-line semimetal YbCdGe. Physical Review B, 2019, 99, .	3.2	32
21	Electronic structure and mechanical properties of Sc3AC (AÂ=ÂAl, Ga, In, Tl) and Sc3BN(BÂ=ÂAl, In): Ab-initio study. Intermetallics, 2012, 23, 39-48.	3.9	30
22	Electronic structure and x-ray magnetic circular dichroism ofSr2FeMoO6:Ab initiocalculations. Physical Review B, 2007, 75, .	3.2	29
23	Pressure-induced valence change in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbAl</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> A combined high-pressure inelastic x-ray scattering and theoretical investigation. Physical Review B, 2008, 78, .	3.2	27
24	Optical isotropy in structurally anisotropic halide scintillators:Ab initiostudy. Physical Review B, 2012, 86, .	3.2	27
25	Thermoelectric properties of zinc based pnictide semiconductors. Journal of Applied Physics, 2016, 119, .	2.5	22
26	Fermi surface properties of AB₃(A = Y, La; B = Pb, In, Tl) intermetallic compounds under pressure. Journal of Physics Condensed Matter, 2013, 25, 155501.	1.8	18
27	Pressure induced valence change of Eu in EuFe2As2 at low temperature and high pressures probed by resonant inelastic x-ray scattering. Applied Physics Letters, 2014, 104, .	3.3	15
28	Phase transition and superconductivity in ReS2, ReSe2 and ReTe2. Physical Chemistry Chemical Physics, 2018, 20, 29472-29479.	2.8	15
29	High-pressure study of binary thorium compounds from first principles theory and comparisons with experiment. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 459-468.	1.1	13
30	CuAlTe2: A promising bulk thermoelectric material. Journal of Alloys and Compounds, 2015, 648, 958-965.	5.5	13
31	Novel natural super-lattice materials with low thermal conductivity for thermoelectric applications: A first principles study. Journal of Physics and Chemistry of Solids, 2017, 111, 54-62.	4.0	12
32	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. Journal of Physical Chemistry Letters, 2021, 12, 1046-1051.	4.6	12
33	Structural, elastic, electronic and optical properties of layered alkaline-earth halofluoride scintillators. Philosophical Magazine, 2013, 93, 3563-3575.	1.6	11
34	CsMgCl3: A promising cross luminescence material. Journal of Solid State Chemistry, 2015, 227, 110-116.	2.9	11
35	ZnGeSb₂: a promising thermoelectric material with tunable ultra-high conductivity. Physical Chemistry Chemical Physics, 2016, 18, 26275-26283.	2.8	11
36	Predicted thermoelectric properties of olivine-type Fe₂GeCh₄(Châ€‰â€‰=â€‰â€‰S, Se and) Tj ETQq0 0 0	1.8	11

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37	Experimental and theoretical study of the correlated compound YbCdSn: Evidence for large magnetoresistance and mass enhancement. Physical Review B, 2020, 102, .	3.2	11
38	Importance of ligands in the electronic properties of FeTe0.6Se0.4. Journal of Applied Physics, 2013, 114, 163906.	2.5	10
39	Structural and thermoelectric properties of zintl-phase CaLiPn (Pn=As, Sb, Bi). Journal of Solid State Chemistry, 2016, 243, 198-206.	2.9	10
40	Electronic structure and physical properties of EuAuAs single crystal. Physical Review B, 2022, 105, .	3.2	10
41	Electronic topological transitions in Nb3X (Xâ€‰=â€‰Al, Ga, In, Ge, and Sn) under compression investigated by first principles calculations. Journal of Applied Physics, 2016, 119, .	2.5	9
42	Enhanced superconductivity in the high pressure phase of SnAs studied from first principles. Physica B: Condensed Matter, 2017, 505, 33-40.	2.7	9
43	Ultra-low thermal conductivity of orthorhombic CH3NH3SnI3: A first principles investigation. Journal of Solid State Chemistry, 2020, 290, 121541.	2.9	9
44	Enhanced Curie temperature and spin polarization in Co-based compounds under pressure: A first principles investigation. Solid State Sciences, 2020, 105, 106257.	3.2	9
45	Predicted superconductivity of Ni₂VAl and pressure dependence of superconductivity in Ni₂NbX (Xâ€‰â€‰=â€‰â€‰Al, Ga and Sn) and Ni₂VAl. Journal of Physics Condensed Matter, 2016, 28, 115703.	1.8	8
46	High-pressure structural behavior of the double perovskite Sr2CrReO6: an experimental and theoretical study. High Pressure Research, 2009, 29, 83-86.	1.2	7
47	Density functional study of the electronic structure and lattice dynamics of SrCl2. Journal of Physics Condensed Matter, 2010, 22, 445402.	1.8	7
48	Skutterudites under pressure: An ab initio study. Journal of Applied Physics, 2014, 115, 093903.	2.5	7
49	Fermi surface studies of Co-based Heusler alloys: Ab-initio study. AIP Conference Proceedings, 2013, , .	0.4	6
50	Anomalous Hall and Nernst Conductivities in Co2NbGa: A first principles study. Journal of Magnetism and Magnetic Materials, 2021, 538, 168303.	2.3	6
51	Evidence for the antiferromagnetic ground state of Zr2TiAl: a first-principles study. Journal of Physics Condensed Matter, 2017, 29, 265801.	1.8	5
52	Impurity induced cross luminescence in KMgCl₃: an ab initio study. Journal of Physics Condensed Matter, 2019, 31, 115501.	1.8	5
53	Thermoelectric properties of binary LnN (Ln=La and Lu): First principles study. AIP Conference Proceedings, 2015, , .	0.4	4
54	Enhanced superconductivity in SnSb under pressure: a first principles study. Journal of Physics Condensed Matter, 2017, 29, 405502.	1.8	4

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55	Giant thermopower in â€˜pâ€™ type OsX₂ (X: S, Se, Te) for a wide temperature range: a first principles study. Journal of Physics Condensed Matter, 2018, 30, 295501.	1.8	4
56	Electronic Topological Transitions in CuNiMnAl and CuNiMnSn under pressure from first principles study. Solid State Sciences, 2018, 80, 92-100.	3.2	2
57	Ti-fraction-induced electronic and magnetic transformations in titanium oxide films. Journal of Chemical Physics, 2019, 150, 154704.	3.0	2
58	Topological phonons and electronic structure of Li₂BaSi class of semimetals. Journal of Physics Condensed Matter, 2022, 34, 125502.	1.8	2
59	Electronic and mechanical properties of Zr2TiAl: A first principles study. , 2014, , .		1
60	Thermoelectric properties of CuAlCh2 (Ch = S, Se and Te). AIP Conference Proceedings, 2015, , .	0.4	1
61	Optically isotropy in scintillator host compounds M2LaCl5 (M=Rb, and Cs): Ab-initio study. AIP Conference Proceedings, 2015, , .	0.4	1
62	Fermi surface study of ScAu2(Al, In) and ScPd2(Sn, Pb) compounds. AIP Conference Proceedings, 2015, , .	0.4	1
63	Na2KSb: A promising thermoelectric material. AIP Conference Proceedings, 2019, , .	0.4	1
64	Correlation driven topological nodal ring ferromagnetic spin gapless semimetal: CsMnF4. Journal of Physics Condensed Matter, 2021, 33, .	1.8	1
65	Elastic constants and Fermi surface topology change in Calaverite AuTe2: A density functional study. , 2014, , .		0
66	Transport and topological properties of ThOCh(Ch: S, Se and Te) in bulk and monolayer: a first principles study. Journal of Physics Condensed Matter, 2019, 31, 435504.	1.8	0
67	Quantum fluctuation in thermopower at the topological phase transition in CaSrX (X: Si, Ge, Sn, Pb) studied from first principles theory. Journal of Physics Condensed Matter, 2019, 31, 095501.	1.8	0
68	A quasi two dimensional metallic state of CaHCl driven by La doping studied from first principles theory. Materials Today Communications, 2021, 26, 101830.	1.9	0
69	High Thermopower and Optical Properties of A 2 MoS 4 (Aâ€‰=â€‰K, Rb, Cs) and Cs 2 MoSe 4. Physica Status Solidi (B): Basic Research, 2021, 258, 2000587.	1.5	0
70	Electronic topological transitions and vibrational properties of A-15 type X3Y (X= V, Cr and Mo; Y= Os,) Tj ETQq0 0 0 rgBT /Overlock 10 T 109953.	4.0	0
71	Anisotropic transport and optical birefringence of triclinic bulk and monolayer NbX₂Y₂ (X = S, Se and Y = Cl, Br, I). Journal of Physics Condensed Matter, 2021, 33, 485501.	1.8	0
72	High thermopower and birefringence in layered mercury-based halides. Materials Today Communications, 2022, 32, 102824.	1.9	0

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73	Scattering lifetime and High figure of merit in CsAgO predicted by methods beyond relaxation time approximation. Journal of Physics Condensed Matter, 2022, , .	1.8	0
74	Orbital ordering and quasi-two-dimensional magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi><mml:msub><mml:mi mathvariant="normal">MnF</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>Â</mml:mo><mml:mo>(</mml:mo><mml:mi>A< : A first-principles study. Physical Review B, 2022, 106, .	3.2	0