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 thermopower and birefringence in layered mercury-based halides. Materials Today Communications, 2022, 32, 102824.	1.9	0
2	Electronic structure and physical properties of EuAuAs single crystal. Physical Review B, 2022, 105, .	3.2	10
3	Topological phonons and electronic structure of Li₂BaSi class of semimetals. Journal of Physics Condensed Matter, 2022, 34, 125502.	1.8	2
4	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
5	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</mml:mi> : A first-principles study. Physical Review B, 2022, 106, .	3.2	0
6	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
7	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
8	Correlation driven topological nodal ring ferromagnetic spin gapless semimetal: CsMnF4. Journal of Physics Condensed Matter, 2021, 33, .	1.8	1
9	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
10	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
11	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
12	Anomalous Hall and Nernst Conductivities in Co2NbGa: A first principles study. Journal of Magnetism and Magnetic Materials, 2021, 538, 168303.	2.3	6
13	Ultra-low thermal conductivity of orthorhombic CH3NH3SnI3: A first principles investigation. Journal of Solid State Chemistry, 2020, 290, 121541.	2.9	9
14	Experimental and theoretical study of the correlated compound YbCdSn: Evidence for large magnetoresistance and mass enhancement. Physical Review B, 2020, 102, .	3.2	11
15	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
16	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
17	Na2KSb: A promising thermoelectric material. AIP Conference Proceedings, 2019, , .	0.4	1
18	Magnetotransport properties of the correlated topological nodal-line semimetal YbCdGe. Physical Review B, 2019, 99, .	3.2	32

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19	Ti-fraction-induced electronic and magnetic transformations in titanium oxide films. Journal of Chemical Physics, 2019, 150, 154704.	3.0	2
20	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
21	Impurity induced cross luminescence in KMgCl₃: an ab initio study. Journal of Physics Condensed Matter, 2019, 31, 115501.	1.8	5
22	Electronic Topological Transitions in CuNiMnAl and CuNiMnSn under pressure from first principles study. Solid State Sciences, 2018, 80, 92-100.	3.2	2
23	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: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
24	Phase transition and superconductivity in ReS2, ReSe2 and ReTe2. Physical Chemistry Chemical Physics, 2018, 20, 29472-29479.	2.8	15
25	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
26	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
27	Evidence for the antiferromagnetic ground state of Zr2TiAl: a first-principles study. Journal of Physics Condensed Matter, 2017, 29, 265801.	1.8	5
28	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
29	Enhanced superconductivity in SnSb under pressure: a first principles study. Journal of Physics Condensed Matter, 2017, 29, 405502.	1.8	4
30	Enhanced superconductivity in the high pressure phase of SnAs studied from first principles. Physica B: Condensed Matter, 2017, 505, 33-40.	2.7	9
31	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
32	Thermoelectric properties of zinc based pnictide semiconductors. Journal of Applied Physics, 2016, 119, .	2.5	22
33	ZnGeSb₂: a promising thermoelectric material with tunable ultra-high conductivity. Physical Chemistry Chemical Physics, 2016, 18, 26275-26283.	2.8	11
34	Structural and thermoelectric properties of zintl-phase CaLiPn (Pn=As, Sb, Bi). Journal of Solid State Chemistry, 2016, 243, 198-206.	2.9	10
35	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
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	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 mathvariant="normal">F</mml:mi></mml:mrow></mml:math>(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (xml Review B, 2015, 92, .	3.2	36
38	Thermoelectric properties of CuAlCh2 (Ch = S, Se and Te). AIP Conference Proceedings, 2015, , .	0.4	1
39	Thermoelectric properties of binary LnN (Ln=La and Lu): First principles study. AIP Conference Proceedings, 2015, , .	0.4	4
40	Optically isotropy in scintillator host compounds M2LaCl5 (M=Rb, and Cs): Ab-initio study. AIP Conference Proceedings, 2015, , .	0.4	1
41	Fermi surface study of ScAu2(Al, In) and ScPd2(Sn, Pb) compounds. AIP Conference Proceedings, 2015, , .	0.4	1
42	CuAlTe2: A promising bulk thermoelectric material. Journal of Alloys and Compounds, 2015, 648, 958-965.	5.5	13
43	CsMgCl3: A promising cross luminescence material. Journal of Solid State Chemistry, 2015, 227, 110-116.	2.9	11
44	Elastic constants and Fermi surface topology change in Calaverite AuTe2: A density functional study. , 2014, , .		0
45	Electronic and mechanical properties of Zr2TiAl: A first principles study. , 2014, , .		1
46	Skutterudites under pressure: An ab initio study. Journal of Applied Physics, 2014, 115, 093903.	2.5	7
47	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
48	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
49	Thermoelectric properties of marcasite and pyrite FeX2 (X = Se, Te): a first principle study. RSC Advances, 2014, 4, 9424.	3.6	37
50	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
51	Structural, elastic, electronic and optical properties of layered alkaline-earth halofluoride scintillators. Philosophical Magazine, 2013, 93, 3563-3575.	1.6	11
52	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
53	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
54	Thermoelectric properties of chalcopyrite type CuGaTe2 and chalcostibite CuSbS2. Journal of Applied Physics, 2013, 114, .	2.5	67

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55	Importance of ligands in the electronic properties of FeTe0.6Se0.4. Journal of Applied Physics, 2013, 114, 163906.	2.5	10
56	Fermi surface studies of Co-based Heusler alloys: Ab-initio study. AIP Conference Proceedings, 2013, , .	0.4	6
57	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
58	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
59	Optical isotropy in structurally anisotropic halide scintillators:Ab initiostudy. Physical Review B, 2012, 86, .	3.2	27
60	Electronic structure, optical properties, and bonding in alkaline-earth halofluoride scintillators: BaClF, BaBrF, and BaIF. Physical Review B, 2011, 83, .	3.2	33
61	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
62	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
63	Density functional study of the electronic structure and lattice dynamics of SrCl2. Journal of Physics Condensed Matter, 2010, 22, 445402.	1.8	7
64	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:m to 60 GPa: A combined experimental and theoretical study. Physical Review B, 2010, 81, .	3.2	46
65	<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></mml:mrow></mml:math><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></mml:mrow></mml:math>Physical Review B, 2009, 80, .	3.2	77
66	High-pressure structural behavior of the double perovskite Sr2CrReO6: an experimental and theoretical study. High Pressure Research, 2009, 29, 83-86.	1.2	7
67	Mechanical properties of Ti ₃ AlX (X = C, N): Ab initio study. Europhysics Letters, 2009, 87, 26006.	2.0	53
68	Calculated structural, elastic and electronic properties of SrCl2. Journal of Alloys and Compounds, 2008, 455, 480-484.	5.5	37
69	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
70	Electronic structure and x-ray magnetic circular dichroism ofSr2FeMoO6:Ab initiocalculations. Physical Review B, 2007, 75, .	3.2	29
71	Elastic properties of MgCNi₃â€”a superconducting perovskite. Journal of Physics Condensed Matter, 2007, 19, 326214.	1.8	127
72	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

#	ARTICLE	IF	CITATIONS
73	Elastic constants and high-pressure structural transitions in lanthanum monochalcogenides from experiment and theory. Physical Review B, 2007, 75, .	3.2	66
74	First-principles study of elastic properties of CeO2, ThO2and PoO2. Journal of Physics Condensed Matter, 2006, 18, 9615-9624.	1.8	135