Dawei Zhou

List of Publications by Year
in descending order

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28 papers	485 citations	840776 11 h-index	677142 22 g-index
28 all docs	28 docs citations	28 times ranked	848 citing authors

#	Article	IF	Citations
1	Origin of superconductivity in the Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under pressure. Physical Review B, 2016, 94, .	3.2	91
2	Ab initiostudy revealing a layered structure in hydrogen-rich KH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>under high pressure. Physical Review B, 2012, 86, .	3.2	79
3	Pressure-induced metallization and superconducting phase in ReS 2. Npj Quantum Materials, 2017, 2, .	5.2	53
4	Two-Dimensional C₄N Global Minima: Unique Structural Topologies and Nanoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 2669-2674.	3.1	49
5	High-pressure synthesis and thermoelectric performance of tellurium doped with bismuth. Journal of Materials Science, 2017, 52, 10526-10532.	3.7	28
6	Crossover from metal to insulator in dense lithium-rich compound CLi ₄. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2366-2369.	7.1	21
7	Hydrogenated PtP₂ monolayer: theoretical predictions on the structure and charge carrier mobility. Journal of Materials Chemistry C, 2019, 7, 12231-12239.	5.5	21
8	Theoretical investigation on structural and thermodynamic properties of the intermetallic compound in Mgâ€“Znâ€“Ag alloy under high pressure and high temperature. Journal of Alloys and Compounds, 2013, 550, 406-411.	5.5	18
9	Exploring the real ground-state structures of W3Si silicides from first-principles calculations. Computational Materials Science, 2020, 180, 109719.	3.0	16
10	Pressure-induced phase transition of BiOF: novel two-dimensional layered structures. Physical Chemistry Chemical Physics, 2015, 17, 4434-4440.	2.8	15
11	Prediction of stable Cu-Li binary intermetallics from first-principles calculations: Stoichiometries, crystal structures, and physical properties. Journal of Alloys and Compounds, 2018, 766, 640-648.	5.5	12
12	Influence of Fe on magnetoimpedance effect of Co72aˆ’xFexZr8B20alloys. Journal Physics D: Applied Physics, 2006, 39, 4299-4303.	2.8	9
13	Peierls transition in sodium under high pressure: a first-principles study. Journal of Physics Condensed Matter, 2009, 21, 025508.	1.8	9
14	Elastic and thermodynamic properties of vanadium nitride under pressure and the effect of metallic bonding on its hardness. Chinese Physics B, 2014, 23, 026201.	1.4	9
15	A New High-Pressure Polar Phase of Crystalline Bromoform: A First-Principles Study. Journal of Physical Chemistry B, 2010, 114, 13933-13939.	2.6	7
16	Ab-initio study of phase stability, elastic and thermodynamic properties of AlY alloy under pressure. Journal of Alloys and Compounds, 2015, 648, 67-74.	5.5	7
17	Unexpected Xe Cations and Superconductivity in Yâ€“Xe Intermediate Compounds under Pressure. Journal of Physical Chemistry C, 2019, 123, 9323-9330.	3.1	6
18	Near-edge X-ray absorption fine structure of solid oxygen under high pressure: A density functional theory study. Solid State Communications, 2008, 147, 126-129.	1.9	5

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19	Annealing temperature dependance of magnetic properties and magneto-impedance effect in CoZrB alloys. Journal of Alloys and Compounds, 2008, 464, 28-32.	5.5	5
20	The Predicted fcc Superconducting Phase for Compressed Se and Te. Chinese Physics Letters, 2013, 30, 027401.	3.3	5
21	First-principles investigation of elastic and thermodynamic properties of SiCN under pressure. Computational Materials Science, 2014, 95, 228-234.	3.0	5
22	Phase transition and thermodynamic properties of YAg alloy from first-principles calculations. Computational Materials Science, 2015, 102, 21-26.	3.0	5
23	Superconducting properties of barium in three phases under high pressure from first principles. Chinese Physics B, 2013, 22, 087403.	1.4	3
24	Transport and Magnetic Properties of K0.8Fe2â˜'x Cu x Se2(0 â©½ x â©½ 2) System. Journal of Superconductivity and Novel Magnetism, 2015, 28, 219-222.	1.8	3
25	Melting curve of the cI16 sodium at high pressure from ab initio calculations. Physica Status Solidi (B): Basic Research, 2011, 248, 1143-1148.	1.5	2
26	Crystal structure prediction of ReN at high pressure: a new incompressible phase. Phase Transitions, 2019, 92, 595-602.	1.3	1
27	Formation Mechanism of Impure Phases and Crystallinity Investigation of YAG Powders Synthesized via the Co-precipitation Method. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 517-525.	1.0	1
28	Pressure-induced the formation of Mg(CH3)2 and Ca(CH3)2 studied by the first principles. Solid State Communications, 2020, 320, 114027.	1.9	0