Xianlong Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5513447/publications.pdf

Version: 2024-02-01

39 papers	1,387 citations	566801 15 h-index	360668 35 g-index
40 all docs	40 docs citations	40 times ranked	2498 citing authors

#	Article	IF	Citations
1	Investigations of Structural, Electronic and Magnetic Properties of MnSe under High Pressure. Materials, 2022, 15, 1109.	1.3	0
2	Colossal and reversible barocaloric effect in liquid-solid-transition materials n-alkanes. Nature Communications, 2022, 13, 596.	5.8	29
3	Configuration stability and electronic properties of diamane with boron and nitrogen dopants. Physical Review B, 2022, 105, .	1.1	4
4	Spin-crossover induced ferromagnetism and layer stacking-order change in pressurized 2D antiferromagnet MnPS₃. Physical Chemistry Chemical Physics, 2021, 23, 9679-9685.	1.3	16
5	Polymerization of Nitrogen in Nitrogenâ€“Fluorine Compounds under Pressure. Journal of Physical Chemistry Letters, 2021, 12, 5731-5737.	2.1	11
6	Entropic broadening of the spin-crossover pressure in ferropericlase. Physical Review B, 2021, 103, .	1.1	4
7	Structural, electronic and magnetic properties of TlFeSe2 under high pressure. Journal of Physics Condensed Matter, 2021, 33, 415702.	0.7	0
8	Formation of ammoniaâ€“helium compounds at high pressure. Nature Communications, 2020, 11, 3164.	5.8	39
9	Salt-assisted growth and ultrafast photocarrier dynamics of large-sized monolayer ReSe2. Nano Research, 2020, 13, 667-675.	5.8	19
10	Boron-dopant enhanced stability of diamane with tunable band gap. Journal of Physics Condensed Matter, 2020, 32, 135503.	0.7	5
11	Stability of pyridine-like and pyridinium-like nitrogen in graphene. Journal of Physics Condensed Matter, 2019, 31, 265403.	0.7	0
12	Highâ€pressure Raman spectroscopy of CeOCl: Observation of the isostructural phase transition. Journal of Raman Spectroscopy, 2019, 50, 1962-1968.	1.2	5
13	Pressure-induced structural phase transition and vacancy filling in titanium monoxide TiO up to 50 GPa. Applied Physics Letters, 2019, 115, .	1.5	13
14	Synthesis of Manganese Mononitride with Tetragonal Structure under Pressure. Crystals, 2019, 9, 511.	1.0	3
15	Superconductivity of boron-doped graphane under high pressure. RSC Advances, 2019, 9, 7680-7686.	1.7	4
16	Effects of Fe and Al incorporations on the bridgmaniteâ€“postperovskite coexistence domain. Comptes Rendus - Geoscience, 2019, 351, 141-146.	0.4	10
17	High-Pressure Synthesis of CeOCl Crystals and Investigation of Their Photoluminescence and Compressibility Properties. Crystal Growth and Design, 2018, 18, 1843-1847.	1.4	5
18	h-BN/graphene van der Waals vertical heterostructure: a fully spin-polarized photocurrent generator. Nanoscale, 2018, 10, 174-183.	2.8	49

#	Article	IF	Citations
19	The stability of graphene-based MÃ¶bius strip with vacancy and at high-temperature. International Journal of Modern Physics B, 2018, 32, 1850350.	1.0	1
20	The polymerization of nitrogen in Li2N2 at high pressures. Scientific Reports, 2018, 8, 13144.	1.6	4
21	Investigation of iron spin crossover pressure in Fe-bearing MgO using hybrid functional. Journal of Physics Condensed Matter, 2018, 30, 155403.	0.7	5
22	Effects of vacancy defects on Fe properties incorporated in MgO. Journal of Physics Condensed Matter, 2018, 30, 295701.	0.7	1
23	Adsorption of carbon dots onto Al2O3 in aqueous: Experimental and theoretical studies. Environmental Pollution, 2017, 227, 31-38.	3.7	20
24	Schottky defects induced effects on the behaviors of high velocity shock compression of MgO. RSC Advances, 2017, 7, 45304-45310.	1.7	1
25	Spin density waves predicted in zigzag puckered phosphorene, arsenene and antimonene nanoribbons. AIP Advances, 2016, 6, .	0.6	20
26	Pressure-induced structural and valence transition in AgO. Physical Chemistry Chemical Physics, 2016, 18, 15322-15326.	1.3	3
27	Computational support for a pyrolitic lower mantle containing ferric iron. Nature Geoscience, 2015, 8, 556-559.	5.4	75
28	Ab initio computation on the Fe L-edge X-ray emission spectroscopy of Fe-bearing MgSiO3 perovskite. American Mineralogist, 2014, 99, 387-392.	0.9	1
29	NMR Chemical Shifts of ¹⁵N-Bearing Graphene. Journal of Physical Chemistry C, 2014, 118, 13929-13935.	1.5	11
30	Ferromagnetic sandwich-like wires constructed with transition metals and anthracene. Applied Physics Letters, 2013, 103, 032404.	1.5	4
31	Electronic structure of N-doped graphene with native point defects. Physical Review B, 2013, 87, .	1.1	113
32	Ab initio investigation on the highâ€temperature thermodynamic properties of Fe³⁺â€bearing MgSiO₃ perovskite. Journal of Geophysical Research: Solid Earth, 2013, 118, 83-91.	1.4	29
33	Theoretical Characterization of X-ray Absorption, Emission, and Photoelectron Spectra of Nitrogen Doped along Graphene Edges. Journal of Physical Chemistry A, 2013, 117, 579-589.	1.1	39
34	Interplay between nitrogen dopants and native point defects in graphene. Physical Review B, 2012, 85, .	1.1	133
35	Selective nitrogen doping in graphene: Enhanced catalytic activity for the oxygen reduction reaction. Physical Review B, 2011, 84, .	1.1	33
36	Theoretical investigation of MÃ¶bius strips formed from graphene. Applied Physics Letters, 2010, 97, 123103.	1.5	34

#	Article	IF	Citations
37	Sn/graphene nanocomposite with 3D architecture for enhanced reversible lithium storage in lithium ion batteries. Journal of Materials Chemistry, 2009, 19, 8378.	6.7	523
38	First-principles study on the enhancement of lithium storage capacity in boron doped graphene. Applied Physics Letters, 2009, 95, .	1.5	116
39	Investigations of High-Pressure Properties of MnF2 Based on the First-Principles Method. Journal of Physical Chemistry C, 0, , .	1.5	2