

Dian-Hui Wang

List of Publications by Year in descending order

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31
papers

586
citations

759055

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docs citations

31
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-coupling of CoFe-LDH on MXene as high-performance oxygen evolution catalyst. <i>Materials Today Energy</i> , 2019, 12, 453-462.	2.5	162
2	Dynamic Ag ⁺ -intercalation with AgSnSe ₂ nano-precipitates in Cl-doped polycrystalline SnSe ₂ toward ultra-high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9761-9772.	5.2	50
3	Mechanical properties and chemical bonding of the Os-B system: A first-principles study. <i>Acta Materialia</i> , 2012, 60, 4208-4217.	3.8	42
4	Significantly enhanced photocatalytic activity of visible light responsive AgBr/Bi ₂ Sn ₂ O ₇ heterostructured composites. <i>Applied Surface Science</i> , 2017, 426, 1173-1181.	3.1	42
5	AgBr/MgBi ₂ O ₆ heterostructured composites with highly efficient visible-light-driven photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 117, 94-100.	1.9	34
6	First-principle investigation of hydrogen solubility and diffusivity in transition metal-doped vanadium membranes and their mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 805, 747-756.	2.8	28
7	Theoretical investigation of molybdenum/tungsten-vanadium solid solution alloy membranes: Thermodynamic stability and hydrogen permeation. <i>Journal of Membrane Science</i> , 2020, 608, 118200.	4.1	26
8	Photocatalytic removal of MB and hydrogen evolution in water by (Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ /TiO ₂ heterostructures under visible-light irradiation. <i>Applied Surface Science</i> , 2021, 544, 148920.	3.1	24
9	Dissolution, diffusion, and penetration of H in the group VB metals investigated by first-principles method. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29083-29091.	3.8	18
10	Theoretical Studies of High-Pressure Phases, Electronic Structure, and Vibrational Properties of NaNH ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 8387-8393.	1.5	17
11	(Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ as a new visible-light-responsive photocatalyst: An experimental and theoretical study. <i>Materials Research Bulletin</i> , 2019, 118, 110484.	2.7	16
12	Investigation of adsorption, dissociation, and diffusion properties of hydrogen on the V (110) surface and in the bulk: A first-principles calculation. <i>Journal of Advanced Research</i> , 2020, 21, 25-34.	4.4	14
13	First-Principles Investigation of Atomic Hydrogen Adsorption and Diffusion on/into Mo-doped Nb (100) Surface. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2466.	1.3	11
14	Electronic, Optical, Mechanical and Lattice Dynamical Properties of MgBi ₂ O ₆ : A First-Principles Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1267.	1.3	10
15	Characterisation of the temperature-dependent M1 to R phase transition in W-doped VO ₂ nanorod aggregates by Rietveld refinement and theoretical modelling. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7984-7994.	1.3	9
16	Pressure-induced structural transitions of LiNH ₂ : A first-principle study. <i>Journal of Alloys and Compounds</i> , 2012, 544, 129-133.	2.8	8
17	BaC: a thermodynamically stable layered superconductor. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20780-20784.	1.3	8
18	Prediction of thermodynamically stable Li-B compounds at ambient pressure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8471-8477.	1.3	8

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19	Effects of Ni doping on various properties of NbH phases: A first-principles investigation. Scientific Reports, 2017, 7, 6535.	1.6	7
20	Facile One-Step Hydrothermal Fabrication of (Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ /SnO ₂ Heterojunction with Excellent Photocatalytic Activity. Nanomaterials, 2020, 10, 321.	1.9	7
21	First-principles studies of electronic, optical, and mechanical properties of $\hat{\Gamma}^3$ -Bi ₂ Sn ₂ O ₇ . Chinese Physics B, 2016, 25, 067801.	0.7	6
22	Pressure-induced influence on the crystal structure, electronic structure and thermoelectric properties of NaB ₃ : A first-principles study. Journal of Alloys and Compounds, 2018, 731, 323-331.	2.8	6
23	AgBr/(Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ Heterostructured Composites: Fabrication, Characterization, and Significantly Enhanced Photocatalytic Activity. Catalysts, 2019, 9, 394.	1.6	6
24	Electronic structure, thermodynamics, and thermoelectric properties of $\hat{\Gamma}^2$ -BaCu ₂ S ₂ : A first-principles study. Computational Materials Science, 2015, 103, 105-110.	1.4	5
25	Effects of Mo alloying on stability and diffusion of hydrogen in the Nb ₁₆ H phase: a first-principles investigation. RSC Advances, 2019, 9, 19495-19500.	1.7	5
26	Hydrogen Transportation Behaviour of V $\hat{\Gamma}$ -Ni Solid Solution: A First-Principles Investigation. Materials, 2021, 14, 2603.	1.3	5
27	Correlation between dielectric loss, microstructures and phase structures in a novel Mg _{n+1} Ti _n O _{3n+1} microwave ceramic system. Materials Chemistry and Physics, 2017, 198, 35-41.	2.0	4
28	Structural evolutions and electronic properties of Au _n Gd (n = 6 $\hat{\Gamma}$ 15) small clusters: A first principles study. Chinese Physics B, 2018, 27, 083601.	0.7	3
29	One-Step Hydrothermal Synthesis of Nanostructured MgBi ₂ O ₆ /TiO ₂ Composites for Enhanced Hydrogen Production. Nanomaterials, 2022, 12, 1302.	1.9	3
30	Alloying Effect Study on Thermodynamic Stability of MgH ₂ by First-principles Calculation. Chinese Journal of Chemical Physics, 2016, 29, 545-548.	0.6	2
31	Structural stabilities of AMgH ₃ hydrides with perovskite structure. , 2016, , .		0