

Chubin Wan

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Study of hydrogen storage and electrochemical properties of AB ₂ -type Ti _{0.15} Zr _{0.85} La _{0.03} Ni _{1.2} Mn _{0.7} V _{0.12} Fe _{0.12} alloy. <i>Journal of Alloys and Compounds</i> , 2019, 793, 564-575.	2.8	46
2	Theoretical studies of elastic properties of orthorhombic LiBH ₄ . <i>Computational Materials Science</i> , 2014, 81, 378-385.	1.4	38
3	EXAFS and SAXS studies of ZrCo alloy doped with Hf, Sc and Ti atoms. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2931-2935.	3.8	35
4	Phase-structural transformations in a metal hydride battery anode La _{1.5} Nd _{0.5} MgNi ₉ alloy and its electrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9954-9967.	3.8	35
5	In situ neutron powder diffraction study of phase-structural transformations in the La-Mg-Ni battery anode alloy. <i>Journal of Alloys and Compounds</i> , 2016, 670, 210-216.	2.8	29
6	Comparison of C14- and C15-Predominated AB ₂ Metal Hydride Alloys for Electrochemical Applications. <i>Batteries</i> , 2017, 3, 22.	2.1	29
7	Electrochemical studies and phase-structural characterization of a high-capacity La-doped AB ₂ Laves type alloy and its hydride. <i>Journal of Power Sources</i> , 2019, 418, 193-201.	4.0	29
8	Porous Ni@C derived from bimetallic Metal-Organic Frameworks and its application for improving LiBH ₄ dehydrogenation. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1637-1647.	2.8	25
9	A study on crystal structure and chemical state of TiCrVMn hydrogen storage alloys during hydrogen absorption-desorption cycling. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8944-8950.	3.8	18
10	Synchrotron XRD and XANES studies of cerium-doped NaAlH ₄ : Elucidation of doping induced structure changes and electronic state. <i>Journal of Alloys and Compounds</i> , 2009, 481, 60-64.	2.8	16
11	Effect of Mg content in the La _{3-x} Mg _x Ni ₉ battery anode alloys on the structural, hydrogen storage and electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2021, 856, 157443.	2.8	15
12	Synchrotron EXAFS and XRD studies of Ti-V-Cr hydrogen absorbing alloy. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2915-2920.	3.8	14
13	First-principles calculations of structural, elastic and electronic properties of Li ₂ B ₁₂ H ₁₂ . <i>Journal of Alloys and Compounds</i> , 2014, 593, 169-175.	2.8	12
14	Hydrogen trapping in helium-implanted W and W-Ta alloy: First-principles approach. <i>Journal of Nuclear Materials</i> , 2018, 508, 249-256.	1.3	12
15	Synchrotron X-ray diffraction and X-ray photoelectron spectroscopy studies of NaAlH ₄ containing Ti-Zr hydride additives. <i>Journal of Alloys and Compounds</i> , 2009, 486, 436-441.	2.8	10
16	Energetics of small helium clusters near tungsten surface by ab initio calculations. <i>Journal of Nuclear Materials</i> , 2018, 499, 539-545.	1.3	10
17	Wall-induced phase transition controlled by layering freezing. <i>Physical Review E</i> , 2014, 89, 032412.	0.8	9
18	Freezing of Lennard-Jones fluid on a patterned substrate. <i>Physical Review E</i> , 2014, 89, 062410.	0.8	9

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19	Nb-doped LiBH ₄ (010) surface for hydrogen desorption: First-principles calculations. International Journal of Hydrogen Energy, 2015, 40, 6365-6372.	3.8	8
20	MgCo ₂ -D ₂ and MgCoNi-D ₂ systems synthesized at high pressures and interaction mechanism during the HDDR processing. Progress in Natural Science: Materials International, 2017, 27, 74-80.	1.8	8
21	Local and crystal structure of Mg _{1.9} Al _{0.1} Ni hydrogen storage alloys during hydrogen absorption-desorption cycling. International Journal of Hydrogen Energy, 2010, 35, 8044-8048.	3.8	7
22	Investigation of modification of hydrogenation and structure properties of multi-substituted LaNi ₅ alloys. International Journal of Hydrogen Energy, 2012, 37, 13234-13242.	3.8	7
23	Pressure-induced phase transitions in LiBH ₄ : Density functional theory calculations. International Journal of Hydrogen Energy, 2014, 39, 9330-9338.	3.8	6
24	First-principles study of transition metal (Ti, Nb)-doped NaAlH ₄ . International Journal of Hydrogen Energy, 2016, 41, 3517-3526.	3.8	6
25	Towards understanding the influence of Mg content on phase transformations in the La _{3-x} Mg _x Ni ₉ alloys by in-situ neutron powder diffraction study. Progress in Natural Science: Materials International, 2021, , .	1.8	6
26	EXAFS characterization of TiVCrMn hydrogen storage alloy upon hydrogen absorption-desorption cycles. International Journal of Hydrogen Energy, 2012, 37, 990-994.	3.8	4
27	Structural investigations in helium charged titanium films using grazing incidence XRD and EXAFS spectroscopy. Journal of Nuclear Materials, 2014, 444, 142-146.	1.3	4
28	Towards understanding the trapping, migration and clustering of He atoms in W-Ta alloy. Journal of Nuclear Materials, 2021, 554, 153095.	1.3	4
29	A first-principles study of Nb-doped NaAlH ₄ (001) surface. Solid State Communications, 2019, 290, 7-11.	0.9	3
30	Valence band of catalyst doped sodium alanate by X-ray photoelectron spectroscopy using synchrotron radiation. International Journal of Hydrogen Energy, 2010, 35, 1213-1218.	3.8	2
31	Synergistic effect of Li-Ti and K-Ti co-doping on the dehydrogenation properties of NaAlH ₄ : an ab initio study. RSC Advances, 2016, 6, 89895-89900.	1.7	0