

Shixue Zhou

List of Publications by Year in descending order

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45
papers

908
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361413

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663
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#	ARTICLE	IF	CITATIONS
1	Sand mulch-aided ambient-air fabrication of microporous cocoa waste derived-activated carbon for methylene blue adsorption. <i>International Journal of Environmental Analytical Chemistry</i> , 2024, 104, 198-214.	3.3	1
2	Location-dependent effect of nickel on hydrogen dissociation and diffusion on Mg (0001) surface: Insights into hydrogen storage material design. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1617-1630.	11.9	34
3	Remarkable catalytic effect of Ni and ZrO ₂ nanoparticles on the hydrogen sorption properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4716-4724.	7.1	24
4	In Situ Formation of Mg ₂ Ni on Magnesium Surface via Hydrogen Activation for Improving Hydrogen Sorption Performance. <i>ACS Applied Energy Materials</i> , 2022, 5, 6043-6049.	5.1	10
5	Mechanochemical in-situ incorporation of Ni on MgO/MgH ₂ surface for the selective O-/C-terminal catalytic hydrogenation of CO ₂ to CH ₄ . <i>Journal of Catalysis</i> , 2021, 394, 397-405.	6.2	41
6	Hydrogen release: In-situ calorimetry studies of NaBH ₄ +2MgH ₂ doped by ZrF ₄ . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 922-929.	7.1	6
7	Mulch-assisted ambient-air synthesis of oxygen-rich activated carbon for hydrogen storage: A combined experimental and theoretical case study. <i>Applied Surface Science</i> , 2021, 544, 148963.	6.1	18
8	Effect of Ni and SAPO-34 co-additive on enhancing hydrogen storage performance of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23748-23756.	7.1	9
9	Effect of atomic iron on hydriding reaction of magnesium: Atomic-substitution and atomic-adsorption cases from a density functional theory study. <i>Applied Surface Science</i> , 2020, 504, 144489.	6.1	14
10	In-situ synthesis of Mg ₂ Ni-Ce ₆ O ₁₁ catalyst for improvement of hydrogen storage in magnesium. <i>Chemical Engineering Journal</i> , 2020, 385, 123448.	12.7	44
11	Hybrid activation mechanism of thermal annealing for hydrogen storage of magnesium based on experimental evidence and theoretical validation. <i>Applied Surface Science</i> , 2020, 504, 144491.	6.1	19
12	Efficient Hydrogen Generation From Hydrolysis of Sodium Borohydride in Seawater Catalyzed by Polyoxometalate Supported on Activated Carbon. <i>Frontiers in Chemistry</i> , 2020, 8, 676.	3.6	4
13	Hydrogen Release: Thermodynamic and Kinetic Studies of NaBH ₄ Activated by Different Zeolite Nanoparticles. <i>Energy & Fuels</i> , 2020, 34, 10218-10224.	5.1	17
14	Multiscale Exploration and Experimental Insights into Separating Neutral Heterocyclic Nitrogen Compounds Using [emim][NO ₃] as an Extractant. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5662-5673.	6.7	42
15	Confinement of Mg Nanoparticles by Bituminous Coal and Associated Synergistic Hydrogen Storage Effect. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 760-768.	2.5	1
16	Facile Fabrication of Biochar from Palm Kernel Shell Waste and Its Novel Application to Magnesium-Based Materials for Hydrogen Storage. <i>Materials</i> , 2020, 13, 625.	2.9	34
17	Hydrogen activation on aluminium-doped magnesium hydride surface for methanation of carbon dioxide. <i>Applied Surface Science</i> , 2020, 515, 146038.	6.1	13
18	MgH ₂ /Cu _x O Hydrogen Storage Composite with Defect-Rich Surfaces for Carbon Dioxide Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31009-31017.	8.0	37

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19	Carbon-confined magnesium hydride nano-lamellae for catalytic hydrogenation of carbon dioxide to lower olefins. <i>Journal of Catalysis</i> , 2019, 379, 121-128.	6.2	47
20	Theoretical prediction and experimental study on catalytic mechanism of incorporated Ni for hydrogen absorption of Mg. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27885-27895.	7.1	23
21	Oxygen vacancy in magnesium/cerium composite from ball milling for hydrogen storage improvement. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13606-13612.	7.1	29
22	Separation of heterocyclic nitrogen compounds from coal tar fractions via ionic liquids: COSMO-SAC screening and experimental study. <i>Chemical Engineering Communications</i> , 2019, 206, 1199-1217.	2.6	34
23	Solid-phase hydrogen in a magnesium-carbon composite for efficient hydrogenation of carbon disulfide. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3055-3062.	10.3	22
24	Efficient Extraction of Neutral Heterocyclic Nitrogen Compounds from Coal Tar via Ionic Liquids and Its Mechanism Analysis. <i>Energy & Fuels</i> , 2018, 32, 9358-9370.	5.1	48
25	Facile In Situ Synthesis of Micro/Nano Structured MgH ₂ Whiskers and Investigation of Their Growth Mechanisms. <i>Crystal Research and Technology</i> , 2018, 53, 1800147.	1.3	3
26	Novel application of MgH ₂ /MoS ₂ hydrogen storage materials to thiophene hydrodesulfurization: A combined experimental and theoretical case study. <i>Materials and Design</i> , 2018, 158, 213-223.	7.0	21
27	Enhancement of the hydrogen storage properties of Mg/C nanocomposites prepared by reactive milling with molybdenum. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 299-304.	1.0	3
28	Dissociation and diffusion of hydrogen on defect-free and vacancy defective Mg (0001) surfaces: A density functional theory study. <i>Applied Surface Science</i> , 2017, 394, 371-377.	6.1	33
29	Enhancement in dehydriding performance of magnesium hydride by iron incorporation: A combined experimental and theoretical investigation. <i>Journal of Power Sources</i> , 2016, 322, 179-186.	7.8	40
30	Crystal structure and hydrogen storage behaviors of Mg/MoS ₂ composites from ball milling. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 773-778.	1.0	3
31	A copper-based sorbent with oxygen-vacancy defects from mechanochemical reduction for carbon disulfide absorption. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17207-17214.	10.3	18
32	Crystalline structure, energy calculation and dehydriding thermodynamics of magnesium hydride from reactive milling. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11484-11490.	7.1	18
33	Bio-precipitation of Calcite with Preferential Orientation Induced by <i>Synechocystis</i> sp. PCC6803. <i>Geomicrobiology Journal</i> , 2014, 31, 884-899.	2.0	34
34	Synthesis, Characterization, and Hydrodesulfurization Activity of Diatomite-Dispersed NiMoW Composition. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 310-314.	0.6	1
35	Room-Temperature Synthesis of Hydroxynaphthalene-1,4-dione Derivative Catalyzed by Phenylphosphinic Acid. <i>Synthetic Communications</i> , 2014, 44, 1286-1290.	2.1	12
36	Influence of aluminum location on hydrogen sorption kinetics of magnesium-based materials. <i>Functional Materials Letters</i> , 2014, 07, 1450034.	1.2	5

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37	Characterization of calcium deposition induced by <i>Synechocystis</i> sp. PCC6803 in BG11 culture medium. <i>Chinese Journal of Oceanology and Limnology</i> , 2014, 32, 503-510.	0.7	20
38	Effect of carbon from anthracite coal on decomposition kinetics of magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2014, 592, 231-237.	5.5	16
39	Nano-confined magnesium for hydrogen storage from reactive milling with anthracite carbon as milling aid. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13628-13633.	7.1	33
40	Evolution of magnesium during reactive milling under hydrogen atmosphere with crystallitic carbon as milling aid. <i>Journal of Alloys and Compounds</i> , 2013, 581, 472-478.	5.5	9
41	In situ synthesis of polyisoprene/grafted single-walled carbon nanotube composites. <i>Polymer Journal</i> , 2013, 45, 834-838.	2.7	8
42	Doped polyaniline/multiwalled carbon nanotube composites: Preparation and characterization. <i>Polymer Composites</i> , 2013, 34, 1119-1125.	4.6	23
43	Effectiveness of crystallitic carbon from coal as milling aid and for hydrogen storage during milling with magnesium. <i>Fuel</i> , 2013, 109, 68-75.	6.4	34
44	Syndiotactic polymerization of methyl methacrylate with Ni(acac) ₂ -methylaluminumoxane catalyst. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	2
45	CTAB modification of attapulgite and its inhibition to algae growth. , 2011, , .		1