Haipeng Chen

List of Publications by Year
in descending order

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31	942	430442	433756
papers	citations	18	31
		h-index	g-index

31	31	31	853
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance and selectivity of amphiphilic pillar[5]arene as stationary phase for capillary gas chromatography. Journal of Chromatography A, 2022, 1671, 463008.	1.8	18
2	Engineering the Oxygen Vacancies in Na₂Ti₃O₇ for Boosting Its Catalytic Performance in MgH₂ Hydrogen Storage. ACS Sustainable Chemistry and Engineering, 2022, 10, 363-371.	3.2	16
3	In Situ Formation of Mg₂Ni on Magnesium Surface via Hydrogen Activation for Improving Hydrogen Sorption Performance. ACS Applied Energy Materials, 2022, 5, 6043-6049.	2.5	10
4	Insight into the activation of CO2 and H2 on K2O-adsorbed Fe5C2(110) for olefins production: A density functional theory study. Molecular Catalysis, 2022, 524, 112323.	1.0	4
5	Mechanochemical in-situ incorporation of Ni on MgO/MgH2 surface for the selective O-/C-terminal catalytic hydrogenation of CO2 to CH4. Journal of Catalysis, 2021, 394, 397-405.	3.1	41
6	Effect of atomic iron on hydriding reaction of magnesium: Atomic-substitution and atomic-adsorption cases from a density functional theory study. Applied Surface Science, 2020, 504, 144489.	3.1	14
7	In-situ synthesis of Mg2Ni-Ce6O11 catalyst for improvement of hydrogen storage in magnesium. Chemical Engineering Journal, 2020, 385, 123448.	6.6	44
8	Insight into the effects of electronegativity on the H₂ catalytic activation for CO₂ hydrogenation: four transition metal cases from a DFT study. Catalysis Science and Technology, 2020, 10, 5641-5647.	2.1	13
9	Insight into the energy conversion and structural evolution of magnesium hydride during high-energy ball milling for its controllable synthesis. Journal of Alloys and Compounds, 2020, 836, 155312.	2.8	7
10	Hydrogen activation on aluminium-doped magnesium hydride surface for methanation of carbon dioxide. Applied Surface Science, 2020, 515, 146038.	3.1	13
11	MgH₂/Cu_xO Hydrogen Storage Composite with Defect-Rich Surfaces for Carbon Dioxide Hydrogenation. ACS Applied Materials & Interfaces, 2019, 11, 31009-31017.	4.0	37
12	Carbon-confined magnesium hydride nano-lamellae for catalytic hydrogenation of carbon dioxide to lower olefins. Journal of Catalysis, 2019, 379, 121-128.	3.1	47
13	Oxygen vacancy in magnesium/cerium composite from ball milling for hydrogen storage improvement. International Journal of Hydrogen Energy, 2019, 44, 13606-13612.	3.8	29
14	Amphiphilic calix[4]arenes as a highly selective gas chromatographic stationary phase for aromatic amine isomers. Journal of Chromatography A, 2019, 1601, 310-318.	1.8	22
15	p-Nitro-tetradecyloxy-calix[4]arene as a highly selective stationary phase for gas chromatographic separations. New Journal of Chemistry, 2019, 43, 16960-16967.	1.4	5
16	2D MoS2 grown on biomass-based hollow carbon fibers for energy storage. Applied Surface Science, 2019, 469, 854-863.	3.1	79
17	Cationic bipy induced the three dimensional supramolecules based on azoxybenzene tetracarboxylate: Structures and NIR luminescence property. Polyhedron, 2019, 157, 420-427.	1.0	20
18	Solid-phase hydrogen in a magnesiumâ€“carbon composite for efficient hydrogenation of carbon disulfide. Journal of Materials Chemistry A, 2018, 6, 3055-3062.	5.2	22

#	Article	IF	Citations
19	Single-Crystalline Particles: An Effective Way to Ameliorate the Intragranular Cracking, Thermal Stability, and Capacity Fading of the LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂ Electrodes. Journal of the Electrochemical Society, 2018, 165, A3040-A3047.	1.3	96
20	A facile route for tuning emission and magnetic properties by controlling lanthanide ions in coordination polymers incorporating mixed aromatic carboxylate ligands. Journal of Solid State Chemistry, 2018, 268, 22-29.	1.4	35
21	Novel application of MgH2/MoS2 hydrogen storage materials to thiophene hydrodesulfurization: A combined experimental and theoretical case study. Materials and Design, 2018, 158, 213-223.	3.3	21
22	Enhancement of the hydrogen storage properties of Mg/C nanocomposites prepared by reactive milling with molybdenum. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 299-304.	0.4	3
23	A series of anionic host coordination polymers based on azoxybenzene carboxylate: structures, luminescence and magnetic properties. Dalton Transactions, 2017, 46, 14192-14200.	1.6	145
24	Dissociation and diffusion of hydrogen on defect-free and vacancy defective Mg (0001) surfaces: A density functional theory study. Applied Surface Science, 2017, 394, 371-377.	3.1	33
25	Enhancement in dehydriding performance of magnesium hydride by iron incorporation: A combined experimental and theoretical investigation. Journal of Power Sources, 2016, 322, 179-186.	4.0	40
26	A copper-based sorbent with oxygen-vacancy defects from mechanochemical reduction for carbon disulfide absorption. Journal of Materials Chemistry A, 2016, 4, 17207-17214.	5.2	18
27	Crystalline structure, energy calculation and dehydriding thermodynamics of magnesium hydride from reactive milling. International Journal of Hydrogen Energy, 2015, 40, 11484-11490.	3.8	18
28	Effect of carbon from anthracite coal on decomposition kinetics of magnesium hydride. Journal of Alloys and Compounds, 2014, 592, 231-237.	2.8	16
29	Nano-confined magnesium for hydrogen storage from reactive milling with anthracite carbon as milling aid. International Journal of Hydrogen Energy, 2014, 39, 13628-13633.	3.8	33
30	Evolution of magnesium during reactive milling under hydrogen atmosphere with crystallitic carbon as milling aid. Journal of Alloys and Compounds, 2013, 581, 472-478.	2.8	9
31	Effectiveness of crystallitic carbon from coal as milling aid and for hydrogen storage during milling with magnesium. Fuel, 2013, 109, 68-75.	3.4	34