

Yong-Tao Li

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,029
citations

430754

18
h-index

454834

30
g-index

50
all docs

50
docs citations

50
times ranked

1145
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>Anionâ€Regulated Weakly Solvating</scp> Electrolytes for <scp>Highâ€Voltage</scp> Lithium Metal Batteries. Energy and Environmental Materials, 2023, 6, .	7.3	17
2	Enhancing hydrogen sorption in MgH ₂ by controlling particle size and contact of Ni catalysts. Rare Metals, 2021, 40, 995-1002.	3.6	43
3	A systematic computational investigation of the water splitting and N₂ reduction reaction performances of monolayer MBenes. Physical Chemistry Chemical Physics, 2021, 23, 6613-6622.	1.3	9
4	Interface controlled solid-state lithium storage performance in free-standing bismuth nanosheets. Dalton Transactions, 2021, 50, 252-261.	1.6	8
5	Enhancement of the ionic conductivity of lithium borohydride by silica supports. Dalton Transactions, 2021, 50, 15352-15358.	1.6	5
6	Fabrication of GeS-graphene composites for electrode materials in lithium-ion batteries. Materials Research Express, 2021, 8, 115013.	0.8	5
7	Effect of cold work on martensitic transformation of Ni ₃₈ Ti ₃₇ V ₂₅ alloy reinforced by V nanowires. Journal of Alloys and Compounds, 2020, 815, 152489.	2.8	7
8	Reversible room temperature hydrogen storage in high-entropy alloy TiZrCrMnFeNi. Scripta Materialia, 2020, 178, 387-390.	2.6	132
9	Mechanical Synthesis and Hydrogen Storage Characterization of MgVCr and MgVTiCrFe Highâ€Entropy Alloy. Advanced Engineering Materials, 2020, 22, 1901079.	1.6	54
10	The transformation characteristics of the NiTiâ€V composite with dual-scale bcc-V fibers. Intermetallics, 2020, 116, 106650.	1.8	3
11	Ultra-Fine CeO₂ Particles Triggered Strong Interaction with LaFeO₃ Framework for Total and Preferential CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 42274-42284.	4.0	24
12	Crystallite growth characteristics of Mg during hydrogen desorption of MgH ₂ . Progress in Natural Science: Materials International, 2020, 30, 246-250.	1.8	17
13	Boosting Photovoltaic Performance and Stability of Super-Halogen-Substituted Perovskite Solar Cells by Simultaneous Methylammonium Immobilization and Vacancy Compensation. ACS Applied Materials & Interfaces, 2020, 12, 8249-8259.	4.0	19
14	Effects of morphology of V nanowires on superelasticity of Ti ₄₆ Ni ₄₄ V ₁₀ alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 786, 139450.	2.6	2
15	In situ forming LiF nanodecorated electrolyte/electrode interfaces for stable all-solid-state batteries. Materials Today Nano, 2020, 10, 100079.	2.3	38
16	Enhanced Low-Temperature Hydrogen Storage in Nanoporous Ni-Based Alloy Supported LiBH ₄ . Frontiers in Chemistry, 2020, 8, 283.	1.8	10
17	Turning bulk materials into 0D, 1D and 2D metallic nanomaterials by selective aqueous corrosion. Chemical Communications, 2019, 55, 10476-10479.	2.2	12
18	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	1.6	34

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19	Enhanced hydrogen storage kinetics of an Mg-Pr-Al composite by in situ formed Pr ₃ Al ₁₁ nanoparticles. Dalton Transactions, 2019, 48, 7735-7742.	1.6	15
20	Effect of Microstructure on Hydrogen Permeation in EA4T and 30CrNiMoV12 Railway Axle Steels. Metals, 2019, 9, 164.	1.0	4
21	Controlled phase evolution from Cu _{0.33} Co _{0.67} S ₂ to Cu ₃ Co ₆ S ₈ hexagonal nanosheets as oxygen evolution reaction catalysts. RSC Advances, 2019, 9, 9729-9736.	1.7	11
22	Uniform gallium oxyhydroxide nanorod anodes with superior lithium-ion storage. RSC Advances, 2019, 9, 34896-34901.	1.7	7
23	Hydrogen Storage Properties and Reactive Mechanism of LiBH ₄ /Mg ₁₀ Ni-H Composite. Materials Research, 2019, 22, .	0.6	1
24	Carbon/Sulfur Composites Stabilized with Nano-TiNi for High-Performance Li-S Battery Cathodes. ACS Applied Energy Materials, 2019, 2, 1537-1543.	2.5	9
25	Activity-Tuning of Supported Co-Ni Nanocatalysts via Composition and Morphology for Hydrogen Storage in MgH ₂ . Frontiers in Chemistry, 2019, 7, 937.	1.8	17
26	Improving the phase stability and cycling performance of Ce ₂ Ni ₇ -type RE-Mg-Ni alloy electrodes by high electronegativity element substitution. Dalton Transactions, 2018, 47, 16453-16460.	1.6	19
27	Thermal Dehydrogenation Characteristics of Li-Sr-Al-N-H Hydrogen Storage System. Materials Research, 2018, 21, .	0.6	0
28	Transformation and superelastic characteristics of large hysteresis TiNi matrix shape memory alloys reinforced by V nanowires. Materials Letters, 2018, 228, 391-394.	1.3	14
29	Effect of plastic deformation of V nanowires on the transformation characteristics of NiTiV alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 735, 162-165.	2.6	11
30	Intrinsic alterations in the hydrogen desorption of Mg ₂ NiH ₄ by solid dissolution of titanium. Dalton Transactions, 2018, 47, 8418-8426.	1.6	11
31	Solid solution of Cu in Mg ₂ NiH ₄ and its destabilized effect on hydrogen desorption. Materials Chemistry and Physics, 2017, 193, 1-6.	2.0	19
32	Hydrogen-induced magnesium-zirconium interfacial coupling: enabling fast hydrogen sorption at lower temperatures. Journal of Materials Chemistry A, 2017, 5, 5067-5076.	5.2	94
33	The superior desorption properties of MgCl ₂ -added ammonia borane compared to MgF ₂ -added systems—the unexpected role of MgCl ₂ interacting with [NH ₃] units. RSC Advances, 2017, 7, 36684-36687.	1.7	3
34	Self-Printing on Graphitic Nanosheets with Metal Borohydride Nanodots for Hydrogen Storage. Scientific Reports, 2016, 6, 31144.	1.6	20
35	Enhancement of Hydrogen Storage in Destabilized LiNH ₂ with KMgH ₃ by Quick Conveyance of N-Containing Species. Journal of Physical Chemistry C, 2016, 120, 1415-1420.	1.5	28
36	Direct mechanochemical formation of alkali metal borohydrides nanocrystals exhibiting kinetic and thermodynamic destabilizations. International Journal of Hydrogen Energy, 2016, 41, 2807-2813.	3.8	0

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37	Comparative Investigations on Hydrogen Absorption/Desorption Properties of Sm-Mg-Ni Compounds: The Effect of [SmNi5]/[SmMgNi4] Unit Ratio. Journal of Physical Chemistry C, 2015, 119, 4719-4727.	1.5	33
38	Facile preparation of carbon-coated Mg nanocapsules as light microwave absorber. Materials Letters, 2015, 149, 12-14.	1.3	20
39	Facile self-assembly of light metal borohydrides with controllable nanostructures. RSC Advances, 2014, 4, 983-986.	1.7	19
40	Enhanced reducibility and redox stability of Fe ₂ O ₃ in the presence of CeO ₂ nanoparticles. RSC Advances, 2014, 4, 47191-47199.	1.7	70
41	<i>In Situ</i> Embedding of Mg ₂ NiH ₄ and YH ₃ Nanoparticles into Bimetallic Hydride NaMgH ₃ to Inhibit Phase Segregation for Enhanced Hydrogen Storage. Journal of Physical Chemistry C, 2014, 118, 23635-23644.	1.5	33
42	Hydrogen storage of a novel combined system of LiNH ₂ -NaMgH ₃ : synergistic effects of in situ formed alkali and alkaline-earth metal hydrides. Dalton Transactions, 2013, 42, 1810-1819.	1.6	17
43	Carbon nanomaterial-assisted morphological tuning for thermodynamic and kinetic destabilization in sodium alanates. Journal of Materials Chemistry A, 2013, 1, 5238.	5.2	30
44	Fast hydrogen-induced optical and electrical transitions of Mg and Mg-Ni films with amorphous structure. Applied Physics Letters, 2013, 102, .	1.5	17
45	Promoted hydrogen release from 3LiBH ₄ /MnF ₂ composite by doping LiNH ₂ : Elimination of diborane release and reduction of decomposition temperature. International Journal of Hydrogen Energy, 2012, 37, 18074-18079.	3.8	4
46	Enhanced dehydrogenation of ammonia borane by reaction with alkaline earth metal chlorides. International Journal of Hydrogen Energy, 2012, 37, 4274-4279.	3.8	20
47	Hydrogen storage properties of TiMn _{1.5} V _{0.2} -based alloys for application to fuel cell system. Journal of Power Sources, 2010, 195, 8215-8221.	4.0	19
48	Improved dehydrogenation of TiF ₃ -doped NaAlH ₄ using ordered mesoporous SiO ₂ as a codopant. Journal of Materials Research, 2010, 25, 2047-2053.	1.2	19
49	Pressure hysteresis in the TiMn _{1.5} V _x -H ₂ (<i>x</i> = 0.1-0.5) system. Journal of Materials Research, 2009, 24, 2886-2891.	1.2	5
50	Phase component and microstructure of laser-sintered Mg-Ni alloys. Rare Metals, 2008, 27, 400-404.	3.6	1