Peter Ngene

List of Publications by Year in descending order

52 papers	2,532 citations	218381 26 h-index	189595 50 g-index
53 all docs	53 docs citations	53 times ranked	2226 citing authors

#	Article	IF	Citations
1	Materials for hydrogen-based energy storage â€“ past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	2.8	518
2	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. International Journal of Hydrogen Energy, 2019, 44, 7746-7767.	3.8	166
3	LiBH₄/SBA-15 Nanocomposites Prepared by Melt Infiltration under Hydrogen Pressure: Synthesis and Hydrogen Sorption Properties. Journal of Physical Chemistry C, 2010, 114, 6163-6168.	1.5	143
4	Reversibility of the hydrogen desorption from LiBH4: a synergetic effect of nanoconfinement and Ni addition. Chemical Communications, 2010, 46, 8201.	2.2	127
5	Complex hydrides for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7860-7874.	3.8	123
6	Reversibility of the hydrogen desorption from NaBH4 by confinement in nanoporous carbon. Energy and Environmental Science, 2011, 4, 4108.	15.6	109
7	All-Solid-State Lithium-Sulfur Battery Based on a Nanoconfined LiBH₄Electrolyte. Journal of the Electrochemical Society, 2016, 163, A2029-A2034.	1.3	90
8	Nanoconfined LiBH₄ and Enhanced Mobility of Li^{+Â}and BH₄^{â€“} Studied by Solid-State NMR. Journal of Physical Chemistry C, 2012, 116, 22169-22178.	1.5	83
9	Seeing Hydrogen in Colors: Lowâ€Cost and Highly Sensitive Eye Readable Hydrogen Detectors. Advanced Functional Materials, 2014, 24, 2374-2382.	7.8	78
10	Confinement Effects for Lithium Borohydride: Comparing Silica and Carbon Scaffolds. Journal of Physical Chemistry C, 2017, 121, 4197-4205.	1.5	64
11	The role of Ni in increasing the reversibility of the hydrogen release from nanoconfined LiBH4. Faraday Discussions, 2011, 151, 47.	1.6	61
12	Enhancing Li-Ion Conductivity in LiBH₄-Based Solid Electrolytes by Adding Various Nanosized Oxides. ACS Applied Energy Materials, 2020, 3, 4941-4948.	2.5	61
13	Polymerâ€Induced Surface Modifications of Pdâ€based Thin Films Leading to Improved Kinetics in Hydrogen Sensing and Energy Storage Applications. Angewandte Chemie - International Edition, 2014, 53, 12081-12085.	7.2	53
14	Hydrogen Dynamics in Nanoconfined Lithiumborohydride. Journal of Physical Chemistry C, 2013, 117, 3789-3798.	1.5	51
15	Metal-hydrogen systems with an exceptionally large and tunable thermodynamic destabilization. Nature Communications, 2017, 8, 1846.	5.8	47
16	Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887.	3.8	46
17	Room-Temperature Solid-State Lithium-Ion Battery Using a LiBH₄â€“MgO Composite Electrolyte. ACS Applied Energy Materials, 2021, 4, 1228-1236.	2.5	45
18	Potassium hydride-intercalated graphite as an efficient heterogeneous catalyst for ammonia synthesis. Nature Catalysis, 2022, 5, 222-230.	16.1	37

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19	Enhanced reversibility of H2 sorption in nanoconfined complex metal hydrides by alkali metal addition. Journal of Materials Chemistry, 2012, 22, 13209.	6.7	32
20	Combined Effects of Anion Substitution and Nanoconfinement on the Ionic Conductivity of Li-Based Complex Hydrides. Journal of Physical Chemistry C, 2020, 124, 2806-2816.	1.5	32
21	Destabilization of Mg Hydride by Self-Organized Nanoclusters in the Immiscible Mgâ€“Ti System. Journal of Physical Chemistry C, 2015, 119, 12157-12164.	1.5	30
22	Phase Behavior and Ion Dynamics of Nanoconfined LiBH₄ in Silica. Journal of Physical Chemistry C, 2019, 123, 25559-25569.	1.5	29
23	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. Physical Chemistry Chemical Physics, 2014, 16, 22651-22658.	1.3	28
24	Effect of Pore Confinement of LiNH₂ on Ammonia Decomposition Catalysis and the Storage of Hydrogen and Ammonia. Journal of Physical Chemistry C, 2016, 120, 27212-27220.	1.5	28
25	In situ X-ray Raman spectroscopy of LiBH4. Physical Chemistry Chemical Physics, 2012, 14, 5581.	1.3	27
26	Optical hydrogen sensing with nanoparticulate Pdâ€“Au films produced by spark ablation. Sensors and Actuators B: Chemical, 2015, 221, 290-296.	4.0	26
27	Reversible Li-insertion in nanoscaffolds: A promising strategy to alter the hydrogen sorption properties of Li-based complex hydrides. Nano Energy, 2016, 22, 169-178.	8.2	26
28	Effect of Pore Confinement of NaNH₂ and KNH₂ on Hydrogen Generation from Ammonia. Journal of Physical Chemistry C, 2019, 123, 21487-21496.	1.5	26
29	Li-Ion Diffusion in Nanoconfined LiBH₄-LiI/Al₂O₃: From 2D Bulk Transport to 3D Long-Range Interfacial Dynamics. ACS Applied Materials & Interfaces, 2020, 12, 38570-38583.	4.0	26
30	Metallic and complex hydride-based electrochemical storage of energy. Progress in Energy, 2022, 4, 032001.	4.6	26
31	The effect of nanoscaffold porosity and surface chemistry on the Li-ion conductivity of LiBH₄â€“LiNH₂/metal oxide nanocomposites. Journal of Materials Chemistry A, 2020, 8, 20687-20697.	5.2	25
32	The influence of silica surface groups on the Li-ion conductivity of LiBH₄/SiO₂ nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22456-22466.	1.3	24
33	Hydrogen storage in complex hydrides: past activities and new trends. Progress in Energy, 2022, 4, 032009.	4.6	23
34	Ionic conductivity in complex metal hydride-based nanocomposite materials: The impact of nanostructuring and nanocomposite formation. Journal of Alloys and Compounds, 2022, 901, 163474.	2.8	22
35	Fiber optic hydrogen sensor for a continuously monitoring of the partial hydrogen pressure in the natural gas grid. Sensors and Actuators B: Chemical, 2014, 199, 127-132.	4.0	21
36	Enhanced Room-Temperature Ionic Conductivity of NaCB₁₁H₁₂ via High-Energy Mechanical Milling. ACS Applied Materials & Interfaces, 2021, 13, 61346-61356.	4.0	21

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37	Promotion of Hydrogen Desorption from Palladium Surfaces by Fluoropolymer Coating. ChemCatChem, 2016, 8, 1646-1650.	1.8	19
38	Highly sensitive and selective visual hydrogen detectors based on YxMg1â^'x thin films. Sensors and Actuators B: Chemical, 2014, 203, 745-751.	4.0	17
39	Interface effects in NaAlH4â€“carbon nanocomposites for hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 10175-10183.	3.8	16
40	The hydrogen permeability of Pdâ€“Cu based thin film membranes in relation to their structure: A combinatorial approach. International Journal of Hydrogen Energy, 2015, 40, 3932-3943.	3.8	16
41	Copper sulfide derived nanoparticles supported on carbon for the electrochemical reduction of carbon dioxide. Catalysis Today, 2021, 377, 157-165.	2.2	16
42	Conductorâ€“Insulator Interfaces in Solid Electrolytes: A Design Strategy to Enhance Li-Ion Dynamics in Nanoconfined LiBH₄/Al₂O₃. Journal of Physical Chemistry C, 2021, 125, 15052-15060.	1.5	14
43	Manganese oxide promoter effects in the copper-catalyzed hydrogenation of ethyl acetate. Journal of Catalysis, 2021, 394, 307-315.	3.1	13
44	Carbon supported lithium hydride nanoparticles: Impact of preparation conditions on particle size and hydrogen sorption. International Journal of Hydrogen Energy, 2017, 42, 5188-5198.	3.8	11
45	Structure Dependent Product Selectivity for CO₂ Electroreduction on ZnO Derived Catalysts. ChemCatChem, 2021, 13, 1998-2004.	1.8	9
46	Effects of LiBF4 Addition on the Lithium-Ion Conductivity of LiBH4. Molecules, 2022, 27, 2187.	1.7	7
47	The Nature of Interface Interactions Leading to High Ionic Conductivity in LiBH₄/SiO₂ Nanocomposites. ACS Applied Energy Materials, 2022, 5, 8057-8066.	2.5	7
48	Charge-discharge-induced local strain distributions in a lithium amide-borohydride-iodide [LiBH4-LiNH2-LiI] solid electrolyte. Journal of Energy Storage, 2022, 47, 103600.	3.9	5
49	Eye readable metal hydride based hydrogen tape sensor for health applications. Proceedings of SPIE, 2014, , .	0.8	3
50	Quasi-elastic neutron scattering studies on solid electrolytes for all-solid-state lithium batteries. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s74-s75.	0.0	0
51	(Invited) Light Metal Hydride Nanocomposites As Room Temperature Solid Electrolytes. ECS Meeting Abstracts, 2018, , .	0.0	0
52	Copper Sulfide Derived Nanoparticles Supported on Carbon for the Electrochemical Reduction of Carbon Dioxide. ECS Meeting Abstracts, 2020, MA2020-02, 3198-3198.	0.0	0