

Nurul Hayati Idris

List of Publications by Year in descending order

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citations

257101

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docs citations

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2541
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-encapsulated Fe ₃ O ₄ Nanoparticles with 3D Laminated Structure as Superior Anode in Lithium Ion Batteries. Chemistry - A European Journal, 2011, 17, 661-667.	1.7	395
2	Microporous gel polymer electrolytes for lithium rechargeable battery application. Journal of Power Sources, 2012, 201, 294-300.	4.0	163
3	Synthesis and characterization of graphene-nickel oxide nanostructures for fast charge-discharge application. Electrochimica Acta, 2011, 56, 5815-5822.	2.6	141
4	Nanoflakes MgNiO ₂ synthesised via a simple hydrothermal method and its catalytic roles on the hydrogen sorption performance of MgH ₂ . Journal of Alloys and Compounds, 2019, 796, 279-286.	2.8	90
5	LaFeO ₃ synthesised by solid-state method for enhanced sorption properties of MgH ₂ . Results in Physics, 2020, 16, 102844.	2.0	84
6	MnFe ₂ O ₄ nanopowder synthesised via a simple hydrothermal method for promoting hydrogen sorption from MgH ₂ . International Journal of Hydrogen Energy, 2017, 42, 21114-21120.	3.8	79
7	Synthesis of BaFe ₁₂ O ₁₉ by solid state method and its effect on hydrogen storage properties of MgH ₂ . International Journal of Hydrogen Energy, 2018, 43, 20853-20860.	3.8	74
8	Enhanced lithium storage in a VO ₂ (B)-multiwall carbon nanotube microsheet composite prepared via an in situ hydrothermal process. Electrochimica Acta, 2010, 56, 693-699.	2.6	65
9	Rapid synthesis of binary Ni-NiS by microwave autoclave for rechargeable lithium batteries. Electrochimica Acta, 2011, 58, 456-462.	2.6	65
10	Nanolayer-like-shaped MgFe ₂ O ₄ synthesised via a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH ₂ . RSC Advances, 2018, 8, 15667-15674.	1.7	56
11	Dielectric spectra of LiTFSI-doped chitosan/PEO blends. Ionics, 2007, 13, 213-217.	1.2	54
12	Plastic crystal solid biopolymer electrolytes for rechargeable lithium batteries. Journal of Membrane Science, 2014, 468, 149-154.	4.1	52
13	Synthesis and electrochemical performance of LiV ₃ O ₈ /carbon nanosheet composite as cathode material for lithium-ion batteries. Composites Science and Technology, 2011, 71, 343-349.	3.8	51
14	Enhanced Capacitance of Hybrid Layered Graphene/Nickel Nanocomposite for Supercapacitors. Scientific Reports, 2016, 6, 32082.	1.6	44
15	In-situ encapsulation of nickel nanoparticles in polypyrrole nanofibres with enhanced performance for supercapacitor. Electrochimica Acta, 2017, 249, 9-15.	2.6	37
16	Effects of polypyrrole on the performance of nickel oxide anode materials for rechargeable lithium-ion batteries. Journal of Materials Research, 2011, 26, 860-866.	1.2	36
17	Conductivity studies on chitosan/PEO blends with LiTFSI salt. Ionics, 2005, 11, 375-377.	1.2	35
18	Enhanced Lithium Storage in Co ₃ O ₄ /carbon Anode for Li-ion Batteries. Electrochimica Acta, 2015, 182, 452-457.	2.6	33

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19	Effect of K ₂ TiF ₆ additive on the hydrogen storage properties of 4MgH ₂ •LiAlH ₄ destabilized system. International Journal of Hydrogen Energy, 2015, 40, 7671-7677.	3.8	32
20	Desorption properties of LiAlH ₄ doped with LaFeO ₃ catalyst. International Journal of Hydrogen Energy, 2019, 44, 11953-11960.	3.8	31
21	Disordered spinel LiNi _{0.5} Mn _{1.5} O ₄ cathode with improved rate performance for lithium-ion batteries. Electrochimica Acta, 2016, 206, 374-380.	2.6	28
22	Recent Development of Nickel-Rich and Cobalt-Free Cathode Materials for Lithium-Ion Batteries. Batteries, 2021, 7, 84.	2.1	27
23	Enhancement of dehydrogenation properties in LiAlH ₄ catalysed by BaFe ₂ O ₉ . Journal of Alloys and Compounds, 2020, 835, 155183.	2.8	26
24	Investigation on the Electrochemical Performances of Mn ₂ O ₃ as a Potential Anode for Na-Ion Batteries. Scientific Reports, 2020, 10, 9207.	1.6	25
25	Catalytic effects of MgFe ₂ O ₄ addition on the dehydrogenation properties of LiAlH ₄ . International Journal of Hydrogen Energy, 2019, 44, 28227-28234.	3.8	24
26	Catalytic effect of MgFe ₂ O ₄ on the hydrogen storage properties of Na ₃ AlH ₆ •LiBH ₄ composite system. International Journal of Hydrogen Energy, 2018, 43, 20882-20891.	3.8	19
27	Transport studies on filler-doped chitosan based polymer electrolyte. Ionics, 2005, 11, 451-455.	1.2	18
28	Modifying the hydrogen storage performances of NaBH ₄ by catalyzing with MgFe ₂ O ₄ synthesized via hydrothermal method. International Journal of Hydrogen Energy, 2019, 44, 6720-6727.	3.8	18
29	Effect of K ₂ NbF ₇ on the hydrogen release behaviour of NaAlH ₄ . Journal of Alloys and Compounds, 2021, 851, 156686.	2.8	18
30	Electrochemical Sodiation/Desodiation into Mn ₃ O ₄ Nanoparticles. ACS Omega, 2020, 5, 29158-29167.	1.6	16
31	Review on recent progress in manganese-based anode materials for sodium-ion batteries. International Journal of Energy Research, 2022, 46, 667-683.	2.2	13
32	Ionic liquid based PVDF/PMMA gel polymer electrolyte for lithium rechargeable battery. Journal of Mechanical Engineering and Sciences, 2017, 11, 3152-3165.	0.3	9
33	Magnetism and Thermomechanical Properties in Si Substituted MnCoGe Compounds. Crystals, 2021, 11, 694.	1.0	7
34	Comparison on Electrochemical Performances of LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials Synthesized Using Different Precursors. Materials Today: Proceedings, 2016, 3, S129-S135.	0.9	5
35	Molten Salt Synthesis of Disordered Spinel LiNi _{0.5} Mn _{1.5} O ₄ with Improved Electrochemical Performance for Li-ion Batteries. International Journal of Electrochemical Science, 2018, 13, 10113-10126.	0.5	5
36	Structure analysis using XRD refinement for replacement of copper (Cu) with manganese (Mn) in NdMn ₂ Si ₂ compound. AIP Conference Proceedings, 2019, , .	0.3	4

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37	Ionic Hopping Transport in Chitosan-Based Polymer Electrolytes. Materials Science Forum, 2006, 517, 237-241.	0.3	3
38	Study of Heat Treatment Effect in MnCoGe Compound on Structure and Electric Properties. Materials Science Forum, 0, 1010, 86-91.	0.3	3
39	Synergistic Effect on the Electrochemical Performances of Polypyrrole Nanoparticles Distributed on the Graphene Layers as an Electrodes for Supercapacitors. International Journal of Electrochemical Science, 2019, , 6920-6937.	0.5	2
40	Effect of Ethylene Sulphite on the Conductivity and Morphology of PEO-KOH Films. Materials Science Forum, 2006, 517, 89-92.	0.3	1
41	Microporous Chitosan-Succinonitrile Membrane for Lithium Rechargeable Batteries. Advanced Materials Research, 2016, 1133, 8-12.	0.3	1
42	Electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ synthesised via ball-milling for Li-ion batteries. Ionics, 2019, 25, 2069-2076.	1.2	1
43	Systematically study on the magnetism and critical behaviour of layered NdMn _{1.4} Cu _{0.6} Si ₂ . AIP Conference Proceedings, 2018, , .	0.3	0