

Zhaorong Chang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/814954/publications.pdf>

Version: 2024-02-01

55
papers

1,679
citations

257450

24
h-index

302126

39
g-index

55
all docs

55
docs citations

55
times ranked

2038
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the in situ sulfidation and electrochemical performance of spherical nickel hydroxide. International Journal of Hydrogen Energy, 2021, 46, 30079-30089.	7.1	5
2	Novel application of CoAl-layered double hydroxide/reduced graphene oxide nanocomposite as a highly efficient cathode additive for nickel-based secondary batteries. Electrochimica Acta, 2020, 330, 135242.	5.2	10
3	Selective Preparation of 1T- and 2H-Phase MoS ₂ Nanosheets with Abundant Monolayer Structure and Their Applications in Energy Storage Devices. ACS Applied Energy Materials, 2020, 3, 998-1009.	5.1	50
4	Drastic enhancement in the rate and cyclic behavior of LiMn ₂ O ₄ electrodes at elevated temperatures by phosphorus doping. Electrochimica Acta, 2019, 319, 587-595.	5.2	32
5	Uniform carbon coating drastically enhances the electrochemical performance of a Fe ₃ O ₄ electrode for alkaline nickel-iron rechargeable batteries. International Journal of Hydrogen Energy, 2019, 44, 24895-24904.	7.1	5
6	Powder exfoliated MoS ₂ nanosheets with highly monolayer-rich structures as high-performance lithium-/sodium-ion-battery electrodes. Nanoscale, 2019, 11, 1887-1900.	5.6	93
7	Enhancing the High-Temperature and High-Rate Properties of Nickel Hydroxide Electrode for Nickel-Based Secondary Batteries by Using Nanoscale Ca(OH) ₂ and Fe^{3+} -CoOOH. Journal of the Electrochemical Society, 2019, 166, A1836-A1843.	2.9	6
8	Environmentally compatible synthesis of LiMnPO ₄ /RGO using pure water system. Solid State Ionics, 2019, 337, 115-121.	2.7	10
9	Preparation of oxygen-deficient WO ₃ - nanosheets and their characterization as anode materials for high-performance Li-ion batteries. Electrochimica Acta, 2019, 298, 640-649.	5.2	32
10	Rapid microwave-assisted refluxing synthesis of hierarchical mulberry-shaped Na ₃ V ₂ (PO ₄) ₂ O ₂ F@C as high performance cathode for sodium & lithium-ion batteries. Science China Materials, 2019, 62, 474-486.	6.3	28
11	<i>In situ</i> synthesis of open hollow tubular MnO/C with high performance anode materials for lithium ion batteries using kapok fiber as carbon matrix. Nanotechnology, 2019, 30, 015403.	2.6	12
12	Highly [010]-oriented self-assembled LiCoPO ₄ /C nanoflakes as high-performance cathode for lithium ion batteries. Nano Research, 2018, 11, 2424-2435.	10.4	11
13	Novel Application of Repaired LiFePO ₄ as a Candidate Anode Material for Advanced Alkaline Rechargeable Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 13312-13323.	6.7	24
14	Synthesis of novel spherical Fe ₃ O ₄ @Ni ₃ S ₂ composite as improved anode material for rechargeable nickel-iron batteries. Electrochimica Acta, 2017, 240, 456-465.	5.2	33
15	A facile and scalable self-assembly strategy to prepare two-dimensional nanoplates: a precursor for a Li-rich layered cathode material Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ with high capacity and rate performance. Electrochimica Acta, 2017, 235, 632-639.	5.2	7
16	Low-temperature synthesis of LiMnPO ₄ /RGO cathode material with excellent voltage platform and cycle performance. Electrochimica Acta, 2017, 225, 272-282.	5.2	34
17	Synthesis of NiS coated Fe ₃ O ₄ nanoparticles as high-performance positive materials for alkaline nickel-iron rechargeable batteries. International Journal of Hydrogen Energy, 2017, 42, 24939-24947.	7.1	20
18	Tin-based materials supported on nitrogen-doped reduced graphene oxide towards their application in lithium-ion batteries. RSC Advances, 2017, 7, 53126-53134.	3.6	10

#	ARTICLE	IF	CITATIONS
19	High Rate Performance of Surface Metalized Spherical Nickel Hydroxide via in situ Chemical Reduction. <i>Electrochimica Acta</i> , 2016, 207, 28-36.	5.2	3
20	Li-rich layered $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ derived from transition metal carbonate with a micro-nanostructure as a cathode material for high-performance Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 96714-96720.	3.6	15
21	Simultaneously improved capacity and initial coulombic efficiency of Li-rich cathode $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Co}_{0.13}\text{Ni}_{0.13}]\text{O}_2$ by enlarging crystal cell from a nanoplate precursor. <i>Journal of Power Sources</i> , 2016, 307, 665-672.	7.8	48
22	Glucose-Assisted Synthesis of Highly Dispersed LiMnPO_4 Nanoparticles at a Low Temperature for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016, 189, 205-214.	5.2	28
23	Hexagonal-layered $\text{Na}_{0.7}\text{MnO}_{2.05}$ via solvothermal synthesis as an electrode material for aqueous Na-ion supercapacitors. <i>Materials Chemistry and Physics</i> , 2016, 171, 137-144.	4.0	20
24	Bubble-template-assisted synthesis of hollow fullerene-like MoS_2 nanocages as a lithium ion battery anode material. <i>Journal of Materials Chemistry A</i> , 2016, 4, 51-58.	10.3	344
25	A comparative study of structural and electrochemical properties of high-density aluminum substituted δ -nickel hydroxide containing different interlayer anions. <i>Journal of Power Sources</i> , 2015, 282, 158-168.	7.8	47
26	Enhanced electrochemical performance of high-density Al-substituted δ -nickel hydroxide by a novel anion exchange method using NaCl solution. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1852-1858.	7.1	15
27	Synthesis and electrochemical properties of high performance polyhedron sphere like lithium manganese oxide for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 632, 222-228.	5.5	25
28	Glucose assisted synthesis of hollow spindle LiMnPO_4/C nanocomposites for high performance Li-ion batteries. <i>Electrochimica Acta</i> , 2015, 178, 420-428.	5.2	24
29	Carbon gel assisted low temperature liquid-phase synthesis of $\text{C-LiFePO}_4/\text{graphene}$ layers with high rate and cycle performances. <i>Journal of Power Sources</i> , 2015, 295, 131-138.	7.8	21
30	Synthesis of $\text{CoO}/\text{Reduced Graphene Oxide}$ Composite as an Alternative Additive for the Nickel Electrode in Alkaline Secondary Batteries. <i>Electrochimica Acta</i> , 2015, 180, 373-381.	5.2	15
31	Facile and Nonradiation Pretreated Membrane as a High Conductive Separator for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20184-20189.	8.0	39
32	Facile synthesis of $\text{LiAlO}_{1.1}\text{Mn}_{1.9}\text{O}_4$ as cathode material for lithium ion batteries: towards rate and cycling capabilities at an elevated temperature. <i>Electrochimica Acta</i> , 2014, 134, 338-346.	5.2	40
33	Effects of $\gamma\text{-CoOOH}$ coating on the high-temperature and high-rate performances of spherical nickel hydroxide electrodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3895-3903.	7.1	18
34	Synthesis, characterization and electrochemical performance of high-density aluminum substituted δ -nickel hydroxide cathode material for nickel-based rechargeable batteries. <i>Journal of Power Sources</i> , 2014, 270, 121-130.	7.8	46
35	Facile fabrication of LiMn_2O_4 microspheres from multi-shell MnO_2 for high-performance lithium-ion batteries. <i>Materials Letters</i> , 2014, 135, 75-78.	2.6	28
36	Calcium metaborate as a cathode additive to improve the high-temperature properties of nickel hydroxide electrodes for nickel-metal hydride batteries. <i>Journal of Power Sources</i> , 2014, 263, 110-117.	7.8	15

#	ARTICLE	IF	CITATIONS
37	Electrochemical performance of solid sphere spinel LiMn ₂ O ₄ with high tap density synthesized by porous spherical Mn ₃ O ₄ . <i>Electrochimica Acta</i> , 2014, 123, 254-259.	5.2	38
38	Effects of different electrolytes containing Na ₂ WO ₄ on the electrochemical performance of nickel hydroxide electrodes for nickel-metal hydride batteries. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3412-3422.	7.1	14
39	Sodium tungstate as electrolyte additive to improve high-temperature performance of nickel-metal hydride batteries. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5133-5138.	7.1	14
40	Synthesis and properties of LiMn ₂ O ₄ from hydrazine hydrate reduced electrolytic manganese dioxide. <i>Solid State Ionics</i> , 2013, 237, 34-39.	2.7	13
41	Enhancement of the high-temperature performance of advanced nickel-metal hydride batteries with NaOH electrolyte containing NaBO ₂ . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10616-10624.	7.1	16
42	Effects of precursor treatment on the structure and electrochemical properties of spinel LiMn ₂ O ₄ cathode. <i>Journal of Alloys and Compounds</i> , 2013, 566, 16-21.	5.5	20
43	Synthesis of high-purity LiMn ₂ O ₄ with enhanced electrical properties from electrolytic manganese dioxide treated by sulfuric acid-assisted hydrothermal method. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2849-2856.	2.5	15
44	Optimization of Synthesis Conditions for LiFePO ₄ /C Nanocomposites by Dimethyl Sulfoxide Assisted Solution-Phase Method. <i>Journal of the Electrochemical Society</i> , 2012, 159, A331-A335.	2.9	6
45	Regulation of the discharge reservoir of negative electrodes in Ni-MH batteries by using Ni(OH) ₂ (x=) Tj ETQq1 1 0.784314 19 BT /Over	7.8	19
46	Comparative structural and electrochemical study of high density spherical and non-spherical Ni(OH) ₂ as cathode materials for Ni-metal hydride batteries. <i>Journal of Power Sources</i> , 2011, 196, 7797-7805.	7.8	42
47	Synthesis and characterization of high-density non-spherical Ni(OH) ₂ cathode material for Ni-MH batteries. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9716-9724.	7.1	46
48	Effects of precursor treatment with reductant or oxidant on the structure and electrochemical properties of LiNi _{0.5} Mn _{1.5} O ₄ . <i>Electrochimica Acta</i> , 2010, 55, 5506-5510.	5.2	19
49	Synthesis of β -CoOOH and its effects on the positive electrodes of nickel batteries. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2435-2439.	7.1	34
50	The synthesis of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ using eutectic mixed lithium salt LiNO ₃ -LiOH. <i>Electrochimica Acta</i> , 2009, 54, 6529-6535.	5.2	44
51	Preparation of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ by spherical Ni _{1/3} Mn _{1/3} Co _{1/3} OOH at a low temperature. <i>Journal of Power Sources</i> , 2008, 185, 1408-1414.	7.8	14
52	Synthesis and characterization of high-density non-spherical Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ cathode material for lithium ion batteries by two-step drying method. <i>Electrochimica Acta</i> , 2008, 53, 5927-5933.	5.2	37
53	Surface modification of spherical nickel hydroxide for nickel electrodes. <i>Electrochemistry Communications</i> , 1999, 1, 513-516.	4.7	31
54	Effects of different methods of cobalt addition on the performance of nickel electrodes. <i>Journal of Power Sources</i> , 1999, 77, 69-73.	7.8	26

#	ARTICLE	IF	CITATIONS
55	Influence of preparation conditions of spherical nickel hydroxide on its electrochemical properties. Journal of Power Sources, 1998, 74, 252-254.	7.8	18