

Prasanna Kadirvelayutham

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8913515/publications.pdf>

Version: 2024-02-01

45
papers

1,523
citations

270111

25
h-index

355658

38
g-index

45
all docs

45
docs citations

45
times ranked

2440
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Nanostructured Transition Metal Carbide- and Nitride-Based Cathode Electrocatalysts for Li-O ₂ Batteries (LOBs): A Brief Review. <i>Nanomaterials</i> , 2020, 10, 2106.	1.9	14
2	Biopolymer phytagel-derived porous nanocarbon as efficient electrode material for high-performance symmetric solid-state supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 258-264.	2.9	17
3	Improving self-discharge and anti-corrosion performance of Zn-air batteries using conductive polymer-coated Zn active materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 396-402.	2.9	32
4	Chitosan complements entrapment of silicon inside nitrogen doped carbon to improve and stabilize the capacity of Li-ion batteries. <i>Scientific Reports</i> , 2019, 9, 3318.	1.6	30
5	Metal-organic framework derived NiMo polyhedron as an efficient hydrogen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , 2019, 478, 916-923.	3.1	55
6	Shape- and size-tunable synthesis of tin sulfide thin films for energy applications by electrodeposition. <i>Applied Surface Science</i> , 2019, 479, 167-176.	3.1	22
7	Asymmetric supercapacitor based on carbon nanofibers as the anode and two-dimensional copper cobalt oxide nanosheets as the cathode. <i>Chemical Engineering Journal</i> , 2019, 366, 390-403.	6.6	113
8	Hierarchically structured mesoporous bimetallic oxides as a potential anode material for rechargeable lithium batteries. <i>Journal of Alloys and Compounds</i> , 2019, 771, 555-564.	2.8	19
9	Facile method to synthesis hybrid phase 1T@2H MoSe ₂ nanostructures for rechargeable lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 333-339.	1.9	39
10	Bandgap tuned and oxygen vacant TiO ₂ ~x anode materials with enhanced electrochemical properties for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 177-183.	2.9	28
11	Al-Doped Li[Ni _{0.78} Co _{0.1} Mn _{0.1} Al _{0.02}]O ₂ for High Performance of Lithium Ion Batteries. <i>Ceramics International</i> , 2019, 45, 6972-6977.	2.3	78
12	Electrochemical and cycling performance of neodymium (Nd ³⁺) doped LiNiPO ₄ cathode materials for high voltage lithium-ion batteries. <i>Materials Letters</i> , 2019, 237, 224-227.	1.3	19
13	Synthesis of highly crystalline octahedron 3D-Zn ₂ SnO ₄ as an advanced high-performance anode material for lithium ion batteries. <i>Applied Surface Science</i> , 2018, 449, 514-520.	3.1	17
14	Non-enzymatic glucose sensing platform using self assembled cobalt oxide/graphene nanocomposites immobilized graphite modified electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6763-6770.	1.1	13
15	Wet chemical synthesis and characterization of nanocrystalline ZnWO ₄ for application in Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2018, 207, 367-372.	2.0	19
16	Highly porous CeO ₂ nanostructures prepared via combustion synthesis for supercapacitor applications. <i>Applied Surface Science</i> , 2018, 449, 454-460.	3.1	90
17	Effect of dimethyl carbonate (DMC) on the electrochemical and cycling properties of solid polymer electrolytes (PVP-MSA) and its application for proton batteries. <i>Solid State Ionics</i> , 2018, 321, 106-114.	1.3	24
18	Electrochemical performances of LiNi _{1-x} Mn _x PO ₄ (x = 0.05~0.2) olivine cathode materials for high voltage rechargeable lithium ion batteries. <i>Applied Surface Science</i> , 2018, 449, 435-444.	3.1	27

#	ARTICLE	IF	CITATIONS
19	Preparation and Characterization of the $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Active Material by Electrophoretic Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6494-6498.	0.9	9
20	Improved electrochemical, mechanical and transport properties of novel lithium bisnonafluoro-1-butanefluoroborate (LiBNFSI) based solid polymer electrolytes for rechargeable lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 224-234.	2.9	26
21	The effects of mechanical alloying on the self-discharge and corrosion behavior in Zn-air batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 247-252.	2.9	39
22	Time-efficient synthesis of MnO_2 encapsulated Fe_2O_3 ellipsoids for lithium ion battery applications. <i>Journal of Alloys and Compounds</i> , 2017, 720, 300-308.	2.8	25
23	Shield effect of polyaniline between zinc active material and aqueous electrolyte in zinc-air batteries. <i>Applied Surface Science</i> , 2017, 422, 406-412.	3.1	47
24	Headway in rhodanide anion based ternary gel polymer electrolytes (TILGPEs) for applications in rechargeable lithium ion batteries: an efficient route to achieve high electrochemical and cycling performances. <i>RSC Advances</i> , 2017, 7, 19211-19222.	1.7	18
25	Titanium oxide nanofibers decorated nickel-rich cathodes as high performance electrodes in lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 223-228.	2.9	27
26	An enhanced electrochemical and cycling properties of novel boronic ionic liquid based ternary gel polymer electrolytes for rechargeable Li/LiCoO ₂ cells. <i>Scientific Reports</i> , 2017, 7, 11103.	1.6	36
27	A facile and highly efficient short-time homogenization hydrothermal approach for the smart production of high-quality Fe_2O_3 for rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16712-16721.	5.2	45
28	Agar templated electrodeposition of binary zinc-cobalt alloy and formation of zinc-cobalt-carbon nanocomposite for application in secondary lithium batteries. <i>Journal of Alloys and Compounds</i> , 2017, 697, 450-460.	2.8	16
29	Facile synthesis of thermally reduced graphene oxide-sepiolite nanohybrid via intercalation and thermal reduction method. <i>Applied Clay Science</i> , 2017, 135, 510-515.	2.6	23
30	A Rapid One-Pot Synthesis of Novel High-Purity Methacrylic Phosphonic Acid (PA)-Based Polyhedral Oligomeric Silsesquioxane (POSS) Frameworks via Thiol-Ene Click Reaction. <i>Polymers</i> , 2017, 9, 192.	2.0	10
31	Physical and Electrochemical Properties of CuO -Coated $\text{Li}[\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2]$ Cathodes at Elevated Temperature for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8093-8099.	0.9	16
32	Eco-friendly nitrogen-containing carbon encapsulated LiMn_2O_4 cathodes to enhance the electrochemical properties in rechargeable Li-ion batteries. <i>Scientific Reports</i> , 2016, 6, 29826.	1.6	54
33	Structural and electrochemical evaluation of bismuth doped lithium titanium oxides for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 280, 23-29.	4.0	41
34	Environment-Friendly Cathodes Using Biopolymer Chitosan with Enhanced Electrochemical Behavior for Use in Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7884-7890.	4.0	63
35	Physical and electrochemical performance of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathodes coated by Sb_2O_3 using a sol-gel process. <i>Materials Chemistry and Physics</i> , 2015, 158, 45-51.	2.0	33
36	Facile longitudinal unzipping of carbon nanotubes to graphene nanoribbons and their effects on LiMn_2O_4 cathodes in rechargeable lithium-ion batteries. <i>Acta Materialia</i> , 2015, 100, 11-18.	3.8	35

#	ARTICLE	IF	CITATIONS
37	Effect of Additives on Electrochemical and Corrosion Behavior of Gel Type Electrodes for Zn-Air System. Industrial & Engineering Chemistry Research, 2014, 53, 17370-17375.	1.8	15
38	Depth profile studies on nickel rich cathode material surfaces after cycling with an electrolyte containing vinylene carbonate at elevated temperature. Physical Chemistry Chemical Physics, 2014, 16, 17062-17071.	1.3	48
39	Polyethylene separator: stretched and coated with porous nickel oxide nanoparticles for enhancement of its efficiency in Li-ion batteries. Electrochimica Acta, 2014, 137, 273-279.	2.6	36
40	Effects of inorganic salts on the morphological, structural, and electrochemical properties of prepared nickel-rich $\text{Li}[\text{Ni}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}]\text{O}_2$. Journal of Power Sources, 2014, 268, 349-355.	4.0	64
41	Effect of SiO_2 coating on polyethylene separator with different stretching ratios for application in lithium ion batteries. Materials Chemistry and Physics, 2014, 146, 545-550.	2.0	58
42	Characterization of Li-rich $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{Li}[\text{Mn}_y\text{Ni}_z\text{Co}_{1-y-z}]\text{O}_2$ as cathode active materials for Li-ion batteries. Electrochimica Acta, 2013, 108, 32-38.	2.6	27
43	Silver effect of Co-Ni composite material on energy storage and structural behavior for Li-ion batteries. Applied Surface Science, 2013, 276, 433-436.	3.1	8
44	Optimization of electrophoretic suspension to fabricate $\text{Li}[\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ based positive electrode for Li-ion batteries. Electrochimica Acta, 2013, 95, 295-300.	2.6	17
45	Physical, thermal, and electrochemical characterization of stretched polyethylene separators for application in lithium-ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 1377-1382.	1.2	31