K Prasanna

List of Publications by Year
in descending order

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37 papers	1,233 citations	257450 24 h-index	361022 35 g-index
37 all docs	37 docs citations	37 times ranked	1723 citing authors

#	Article	IF	Citations
1	Highly porous CeO2 nanostructures prepared via combustion synthesis for supercapacitor applications. Applied Surface Science, 2018, 449, 454-460.	6.1	90
2	Al-Doped Li[Ni0.78Co0.1Mn0.1Al0.02]O2 for High Performance of Lithium Ion Batteries. Ceramics International, 2019, 45, 6972-6977.	4.8	78
3	Effects of inorganic salts on the morphological, structural, and electrochemical properties of prepared nickel-rich Li[Ni0.6Co0.2Mn0.2]O2. Journal of Power Sources, 2014, 268, 349-355.	7.8	64
4	Environment-Friendly Cathodes Using Biopolymer Chitosan with Enhanced Electrochemical Behavior for Use in Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 7884-7890.	8.0	63
5	Effect of SiO2 coating on polyethylene separator with different stretching ratios for application in lithium ion batteries. Materials Chemistry and Physics, 2014, 146, 545-550.	4.0	58
6	Eco-friendly nitrogen-containing carbon encapsulated LiMn2O4 cathodes to enhance the electrochemical properties in rechargeable Li-ion batteries. Scientific Reports, 2016, 6, 29826.	3.3	54
7	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.	2.8	48
8	Shield effect of polyaniline between zinc active material and aqueous electrolyte in zinc-air batteries. Applied Surface Science, 2017, 422, 406-412.	6.1	47
9	A facile and highly efficient short-time homogenization hydrothermal approach for the smart production of high-quality Î±-Fe‹sub›2‹/sub›O‹sub›3‹/sub› for rechargeable lithium batteries. Journal of Materials Chemistry A, 2017, 5, 16712-16721.	10.3	45
10	Structural and electrochemical evaluation of bismuth doped lithium titanium oxides for lithium ion batteries. Journal of Power Sources, 2015, 280, 23-29.	7.8	41
11	The effects of mechanical alloying on the self-discharge and corrosion behavior in Zn-air batteries. Journal of Industrial and Engineering Chemistry, 2017, 53, 247-252.	5.8	39
12	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.	5.2	36
13	An enhanced electrochemical and cycling properties of novel boronic Ionic liquid based ternary gel polymer electrolytes for rechargeable Li/LiCoO2 cells. Scientific Reports, 2017, 7, 11103.	3.3	36
14	Facile longitudinal unzipping of carbon nanotubes to graphene nanoribbons and their effects on LiMn2O4 cathodes in rechargeable lithium-ion batteries. Acta Materialia, 2015, 100, 11-18.	7.9	35
15	Physical and electrochemical performance of LiNi 1/3 Co 1/3 Mn 1/3 O 2 cathodes coated by Sb 2 O 3 using a solâ€“gel process. Materials Chemistry and Physics, 2015, 158, 45-51.	4.0	33
16	Improving self-discharge and anti-corrosion performance of Zn-air batteries using conductive polymer-coated Zn active materials. Journal of Industrial and Engineering Chemistry, 2019, 76, 396-402.	5.8	32
17	Physical, thermal, and electrochemical characterization of stretched polyethylene separators for application in lithium-ion batteries. Journal of Solid State Electrochemistry, 2013, 17, 1377-1382.	2.5	31
18	Chitosan complements entrapment of silicon inside nitrogen doped carbon to improve and stabilize the capacity of Li-ion batteries. Scientific Reports, 2019, 9, 3318.	3.3	30

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19	Bandgap tuned and oxygen vacant TiO2â^'x anode materials with enhanced electrochemical properties for lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 71, 177-183.	5.8	28
20	Characterization of Li-rich xLi2MnO3Â·(1â^'x)Li[MnyNizCo1â^'yâ^'z]O2 as cathode active materials for Li-ion batteries. Electrochimica Acta, 2013, 108, 32-38.	5.2	27
21	Titanium oxide nanofibers decorated nickel-rich cathodes as high performance electrodes in lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2017, 51, 223-228.	5.8	27
22	Electrochemical performances of LiNi1â^'xMnxPO4 (xâ€¯=â€¯0.05â€“0.2) olivine cathode materials for high voltage rechargeable lithium ion batteries. Applied Surface Science, 2018, 449, 435-444.	6.1	27
23	Improved electrochemical, mechanical and transport properties of novel lithium bisnonafluoro-1-butanesulfonimidate (LiBNFSI) based solid polymer electrolytes for rechargeable lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2017, 52, 224-234.	5.8	26
24	Time-efficient synthesis of MnO 2 encapsulated Î±-Fe 2 O 3 ellipsoids for lithium ion battery applications. Journal of Alloys and Compounds, 2017, 720, 300-308.	5.5	25
25	Effect of dimethyl carbonate (DMC) on the electrochemical and cycling properties of solid polymer electrolytes (PVP-MSA) and its application for proton batteries. Solid State Ionics, 2018, 321, 106-114.	2.7	24
26	Wet chemical synthesis and characterization of nanocrystalline ZnWO4 for application in Li-ion batteries. Materials Chemistry and Physics, 2018, 207, 367-372.	4.0	19
27	Hierarchically structured mesoporous bimetallic oxides as a potential anode material for rechargeable lithium batteries. Journal of Alloys and Compounds, 2019, 771, 555-564.	5.5	19
28	Electrochemical and cycling performance of neodymium (Nd3+) doped LiNiPO4 cathode materials for high voltage lithium-ion batteries. Materials Letters, 2019, 237, 224-227.	2.6	19
29	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. RSC Advances, 2017, 7, 19211-19222.	3.6	18
30	Optimization of electrophoretic suspension to fabricate Li[Ni1/3Co1/3Mn1/3]O2 based positive electrode for Li-ion batteries. Electrochimica Acta, 2013, 95, 295-300.	5.2	17
31	Synthesis of highly crystalline octahedron 3D-Zn2SnO4 as an advanced high-performance anode material for lithium ion batteries. Applied Surface Science, 2018, 449, 514-520.	6.1	17
32	Biopolymer phytagel-derived porous nanocarbon as efficient electrode material for high-performance symmetric solid-state supercapacitors. Journal of Industrial and Engineering Chemistry, 2019, 80, 258-264.	5.8	17
33	Agar templated electrodeposition of binary zinc-cobalt alloy and formation of zinc-cobalt-carbon nanocomposite for application in secondary lithium batteries. Journal of Alloys and Compounds, 2017, 697, 450-460.	5.5	16
34	Effect of Additives on Electrochemical and Corrosion Behavior of Gel Type Electrodes for Zn-Air System. Industrial & Engineering Chemistry Research, 2014, 53, 17370-17375.	3.7	15
35	Recent Advances in Nanostructured Transition Metal Carbide- and Nitride-Based Cathode Electrocatalysts for Liâ€“O2 Batteries (LOBs): A Brief Review. Nanomaterials, 2020, 10, 2106.	4.1	14
36	A Rapid One-Pot Synthesis of Novel High-Purity Methacrylic Phosphonic Acid (PA)-Based Polyhedral Oligomeric Silsesquioxane (POSS) Frameworks via Thiol-Ene Click Reaction. Polymers, 2017, 9, 192.	4.5	10

#	Article	IF	Citations
37	Silver effect of Coâ€“Ni composite material on energy storage and structural behavior for Li-ion batteries. Applied Surface Science, 2013, 276, 433-436.	6.1	8