Nithyadharseni Palaniyandy

List of Publications by Year
in descending order

35 papers	1,553 citations	361045 20 h-index	414034 32 g-index
35 all docs	35 docs citations	35 times ranked	2156 citing authors

#	Article	IF	Citations
1	A review on ZnO nanostructured materials: energy, environmental and biological applications. Nanotechnology, 2019, 30, 392001.	1.3	365
2	Recent developments of metal oxide based heterostructures for photocatalytic applications towards environmental remediation. Journal of Solid State Chemistry, 2018, 267, 35-52.	1.4	187
3	Recent development on carbon based heterostructures for their applications in energy and environment: A review. Journal of Industrial and Engineering Chemistry, 2018, 64, 16-59.	2.9	146
4	Sn-based Intermetallic Alloy Anode Materials for the Application of Lithium Ion Batteries. Electrochimica Acta, 2015, 161, 261-268.	2.6	124
5	Sustainable Graphenothermal Reduction Chemistry to Obtain MnO Nanonetwork Supported Exfoliated Graphene Oxide Composite and its Electrochemical Characteristics. ACS Sustainable Chemistry and Engineering, 2015, 3, 3205-3213.	3.2	73
6	Î±-MnO2 nanorod/onion-like carbon composite cathode material for aqueous zinc-ion battery. Materials Chemistry and Physics, 2019, 230, 258-266.	2.0	67
7	Investigations on pure and Ag doped lithium lanthanum titanate (LLTO) nanocrystalline ceramic electrolytes for rechargeable lithium-ion batteries. Ceramics International, 2013, 39, 947-952.	2.3	42
8	Electrochemical studies of CNT/Siâ€“SnSb nanoparticles for lithium ion batteries. Materials Research Bulletin, 2015, 70, 478-485.	2.7	41
9	Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO2 Nano Materials. Electrochimica Acta, 2017, 247, 358-370.	2.6	37
10	Rational Design of 2D Manganese Phosphate Hydrate Nanosheets as Pseudocapacitive Electrodes. ACS Energy Letters, 2020, 5, 23-30.	8.8	37
11	Electrochemical Performance of BaSnO₃Anode Material for Lithium-Ion Battery Prepared by Molten Salt Method. Journal of the Electrochemical Society, 2016, 163, A540-A545.	1.3	36
12	Conversion of electrolytic MnO2 to Mn3O4 nanowires for high-performance anode materials for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2019, 833, 79-92.	1.9	36
13	Physicomechanical properties of spark plasma sintered carbon nanotube-containing ceramic matrix nanocomposites. Nanoscale, 2017, 9, 12779-12820.	2.8	34
14	Probing the electrochemistry of MXene (Ti2CTx)/electrolytic manganese dioxide (EMD) composites as anode materials for lithium-ion batteries. Electrochimica Acta, 2019, 297, 961-973.	2.6	34
15	A Facile Segregation Process and Restoration of LiMn₂O₄Cathode Material From Spent Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 090510.	1.3	31
16	Facile one pot synthesis and Li-cycling properties of MnO₂. RSC Advances, 2015, 5, 60552-60561.	1.7	28
17	Electrochemical investigation of SnSb nano particles for lithium-ion batteries. Materials Letters, 2015, 150, 24-27.	1.3	24
18	Gel-combustion synthesized vanadium pentoxide nanowire clusters for rechargeable lithium batteries. Journal of Alloys and Compounds, 2017, 695, 850-858.	2.8	24

#	Article	IF	Citations
19	Fluorinated Mn3O4 nanospheres for lithium-ion batteries: Low-cost synthesis with enhanced capacity, cyclability and charge-transport. Materials Chemistry and Physics, 2018, 209, 65-75.	2.0	24
20	Low temperature molten salt synthesis of Y2Sn2O7 anode material for lithium ion batteries. Electrochimica Acta, 2015, 182, 1060-1069.	2.6	22
21	Recent developments on layered 3d-transtition metal oxide cathode materials for sodium-ion batteries. Current Opinion in Electrochemistry, 2020, 21, 319-326.	2.5	22
22	The Effect of g-C3N4 Materials on Pb(II) and Cd(II) Detection Using Disposable Screen-Printed Sensors. Electrocatalysis, 2019, 10, 149-155.	1.5	21
23	Electrical and magnetic effect of transition metals in SnSb nanoalloy. Applied Surface Science, 2014, 311, 503-507.	3.1	16
24	Insights into the Synergistic Roles of Microwave and Fluorination Treatments towards Enhancing the Cycling Stability of P2-Type Na_{0.67}[Mg_{0.28}Mn_{0.72}]O₂Cathode Material for Sodium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3362-A3370.	1.3	15
25	The electrical and electrochemical properties of graphene nanoplatelets modified 75V2O5â€“25P2O5 glass as a promising anode material for lithium ion battery. Journal of Alloys and Compounds, 2018, 735, 445-453.	2.8	15
26	Microwaveâ€induced defective PdFe/C nanoâ€electrocatalyst for highly efficient alkaline glycerol oxidation reactions. Electrochimica Acta, 2022, 409, 139977.	2.6	14
27	Spark plasma-sintered Sn-based intermetallic alloys and their Li-storage studies. Journal of Solid State Electrochemistry, 2016, 20, 1743-1751.	1.2	12
28	Methanogenesis Potentials: Insights from Mineralogical Diagenesis, SEM and FTIR Features of the Permian Mikambeni Shale of the Tuli Basin, Limpopo Province of South Africa. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37	0.8	8
29	Rapidly Microwave-Synthesized SnO2 Nanorods Anchored on Onion-Like Carbons (OLCs) as Anode Material for Lithium-Ion Batteries. Electrocatalysis, 2019, 10, 314-322.	1.5	5
30	Underpotential deposition of SnBi thin films for sodium ion batteries: The effect of deposition potential and Sn concentration. Journal of Alloys and Compounds, 2019, 808, 151658.	2.8	4
31	Manganese-Based Metal Organic Framework from Spent Li-Ion Batteries and its Electrochemical Performance as Anode Material in Li-ion Battery. Journal of the Electrochemical Society, 2021, 168, 010527.	1.3	4
32	Development of paper-based electrochemical sensors for water quality monitoring. , 2017, , .		2
33	The impact of synthesis techniques on the properties of hybrid perovskite materials for photovoltaic application. Materials Express, 2020, 10, 1127-1134.	0.2	2
34	Physico-chemistry of energy-dense Li_{1.2}Mn_{0.52}Co_{0.13}Ni_{0.13}Al_{0.02}O₂ cathode material for lithium-ion batteries obtained from urea and ethylene glycol fuels. Materials Research Express, 2019, 6, 115501.	0.8	1
35	Influence of Microwave Irradiation and Combustion Fuels on the Rate Capability and Cycle Performance of Li 1.2 Mn 0.52 Ni 0.13 Co 0.13 Al 0.02 O 2 Layered Material. Electroanalysis, 2020, 32, 3159-3169.	1.5	0