

# Dhanya Puthusseri

## List of Publications by Year in descending order

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27  
papers

1,575  
citations

516710

16  
h-index

580821

25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2977  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Safety Analysis of Disordered Li-Rich Rock salt $\text{Li}_{1.3}\text{Mn}_{0.4}\text{Nb}_{0.3}\text{O}_2$ Cathode. ACS Applied Energy Materials, 2022, 5, 516-523.	5.1	3
2	Single-Source Alkoxide Precursor Approach to Titanium Molybdate, $\text{TiMoO}_5$ , and Its Structure, Electrochemical Properties, and Potential as an Anode Material for Alkali Metal Ion Batteries. Inorganic Chemistry, 2021, 60, 3593-3603.	4.0	4
3	Recent Advances in Understanding the Formation and Mitigation of Dendrites in Lithium Metal Batteries. Energy & Fuels, 2021, 35, 9187-9208.	5.1	14
4	Layered $\text{Na}_x\text{CoO}_2$ -based cathodes for advanced Na-ion batteries: review on challenges and advancements. Ionics, 2021, 27, 4549-4572.	2.4	11
5	Aligned $\text{NiP}_2/\text{CoP}_2$ nanoneedle arrays obtained over carbon fiber paper by selective temperature control for efficient HER electrocatalysis. Materials Letters, 2020, 278, 128456.	2.6	12
6	All-solid-state Li-metal batteries: role of blending PTFE with PEO and LiTFSI salt as a composite electrolyte with enhanced thermal stability. Sustainable Energy and Fuels, 2020, 4, 2229-2235.	4.9	22
7	High $\text{Na}^{+}$ Mobility in rGO Wrapped High Aspect Ratio 1D SbSe Nano Structure Renders Better Electrochemical $\text{Na}^{+}$ Battery Performance. ChemPhysChem, 2020, 21, 814-820.	2.1	13
8	Probing the Thermal Safety of Li Metal Batteries. Journal of the Electrochemical Society, 2020, 167, 120513.	2.9	31
9	(Invited) Thermal Safety Aspects of Li-Metal Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 30-30.	0.0	0
10	High capacity, power density and cycling stability of silicon Li-ion battery anodes with a few layer black phosphorus additive. Sustainable Energy and Fuels, 2019, 3, 245-250.	4.9	18
11	Advanced Li Metal Batteries: Thermal Safety Evaluation, Analysis and Mechanistic Elucidation. ECS Meeting Abstracts, 2019, . .	0.0	0
12	Conversion-type Anode Materials for Alkali-Ion Batteries: State of the Art and Possible Research Directions. ACS Omega, 2018, 3, 4591-4601.	3.5	67
13	F-Doped carbon nano-onion films as scaffold for highly efficient and stable Li metal anodes: a novel laser direct-write process. Nanoscale, 2018, 10, 7630-7638.	5.6	20
14	Hard Carbons for Sodium-Ion Battery Anodes: Synthetic Strategies, Material Properties, and Storage Mechanisms. ChemSusChem, 2018, 11, 506-526.	6.8	158
15	High and Reversible Lithium Ion Storage in Self-Exfoliated Triazole-Trimethyl Phloroglucinol-Based Covalent Organic Nanosheets. Advanced Energy Materials, 2018, 8, 1702170.	19.5	174
16	Hausmannite Manganese oxide cathodes for supercapacitors: Surface Wettability and Electrochemical Properties. Electrochimica Acta, 2017, 231, 460-467.	5.2	20
17	Low-dimensional hybrid perovskites as high performance anodes for alkali-ion batteries. Journal of Materials Chemistry A, 2017, 5, 18634-18642.	10.3	64
18	Hard Carbon and $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -Based Physically Mixed Anodes for Superior Li-Battery Performance with Significantly Reduced Li Content: A Case of Synergistic Materials Cooperation. ACS Omega, 2017, 2, 8818-8824.	3.5	7

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19	Nutty Carbon: Morphology Replicating Hard Carbon from Walnut Shell for Na Ion Battery Anode. ACS Omega, 2017, 2, 3601-3609.	3.5	56
20	3D Interconnected Porous Graphene Sheets Loaded with Cobalt Oxide Nanoparticles for Lithium-ion Battery Anodes. Energy Technology, 2016, 4, 816-822.	3.8	7
21	High surface area porous carbon for ultracapacitor application by pyrolysis of polystyrene containing pendant carboxylic acid groups prepared via click chemistry. Materials Today Communications, 2015, 4, 166-175.	1.9	14
22	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. Electrochimica Acta, 2014, 130, 766-770.	5.2	74
23	MOF-derived crumpled-sheet-assembled perforated carbon cuboids as highly effective cathode active materials for ultra-high energy density Li-ion hybrid electrochemical capacitors (Li-HECs). Nanoscale, 2014, 6, 4387.	5.6	159
24	Synthesis of an efficient heteroatom-doped carbon electro-catalyst for oxygen reduction reaction by pyrolysis of protein-rich pulse flour cooked with SiO <sub>2</sub> nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 4251.	2.8	45
25	From Waste Paper Basket to Solid State and Li-HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. Small, 2014, 10, 4395-4402.	10.0	73
26	3D micro-porous conducting carbon beehive by single step polymer carbonization for high performance supercapacitors: the magic of in situ porogen formation. Energy and Environmental Science, 2014, 7, 728-735.	30.8	348
27	Enhanced Capacitance Retention in a Supercapacitor Made of Carbon from Sugarcane Bagasse by Hydrothermal Pretreatment. Energy & Fuels, 2014, 28, 4233-4240.	5.1	161