

# Robert Ilango Pushparaj

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

609  
citations

623734

14  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

907  
citing authors

#	ARTICLE	IF	CITATIONS
1	A superior dye adsorbent towards the hydrogen evolution reaction combining active sites and phase-engineering of (1T/2H) MoS <sub>2</sub> /MoO <sub>3</sub> hybrid heterostructured nanoflowers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15320-15329.	10.3	86
2	Metal-organic framework derived Co@NC/CNT hybrid as a multifunctional electrocatalyst for hydrogen and oxygen evolution reaction and oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 32054-32065.	7.1	65
3	In Situ Synthesis of Graphene-Coated Silicon Monoxide Anodes from Coal-Derived Humic Acid for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101645.	14.9	65
4	Eco-friendly nitrogen-containing carbon encapsulated LiMn <sub>2</sub> O <sub>4</sub> cathodes to enhance the electrochemical properties in rechargeable Li-ion batteries. <i>Scientific Reports</i> , 2016, 6, 29826.	3.3	54
5	Carbon-Based Alloy-Type Composite Anode Materials toward Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1900628.	10.0	42
6	Structural and electrochemical evaluation of bismuth doped lithium titanium oxides for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 280, 23-29.	7.8	41
7	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.	5.8	39
8	Facile longitudinal unzipping of carbon nanotubes to graphene nanoribbons and their effects on LiMn <sub>2</sub> O <sub>4</sub> cathodes in rechargeable lithium-ion batteries. <i>Acta Materialia</i> , 2015, 100, 11-18.	7.9	35
9	Physical and electrochemical performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathodes coated by Sb <sub>2</sub> O <sub>3</sub> using a sol-gel process. <i>Materials Chemistry and Physics</i> , 2015, 158, 45-51.	4.0	33
10	Tunable nitrogen-doped graphene sheets produced with in situ electrochemical cathodic plasma at room temperature for lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 12, 336-347.	4.7	25
11	Design and electrochemical investigation of a novel graphene oxide-silver joint conductive agent on LiFePO <sub>4</sub> cathodes in rechargeable lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 121-124.	5.8	24
12	Wet chemical synthesis and characterization of nanocrystalline ZnWO <sub>4</sub> for application in Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2018, 207, 367-372.	4.0	19
13	Biopolymer phytigel-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.	5.8	17
14	Effect of Additives on Electrochemical and Corrosion Behavior of Gel Type Electrodes for Zn-Air System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 17370-17375.	3.7	15
15	Coal-Derived Graphene/MoS <sub>2</sub> Heterostructure Electrodes for Li-Ion Batteries: Experiment and Simulation Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 59950-59961.	8.0	15
16	Electrospinning techniques for Li, Na and K-ion batteries. <i>Current Opinion in Electrochemistry</i> , 2019, 18, 106-112.	4.8	12
17	Facile synthesis of self-organized single crystalline TiOF <sub>2</sub> nanotubes for photocatalytic hydrogen evolution. <i>Solid State Sciences</i> , 2021, 117, 106627.	3.2	9
18	Molybdenum Carbide-Embedded Multichannel Hollow Carbon Nanofibers as Bifunctional Catalysts for Water Splitting. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1957-1962.	3.3	7

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19	Glancing angle deposition of large-scale helical Si@Cu <sub>3</sub> Si nanorod arrays for high-performance anodes in rechargeable Li-ion batteries. <i>Nanoscale</i> , 2021, 13, 18626-18631.	5.6	6