

# Vaiyapuri Soundharrajan

## List of Publications by Citations

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36  
papers

3,537  
citations

23  
h-index

37  
g-index

37  
ext. papers

4,468  
ext. citations

11.2  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
36	Electrochemically Induced Structural Transformation in a $\text{MnO}_2$ Cathode of a High Capacity Zinc-Ion Battery System. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3609-3620	9.6	549
35	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1684-1694	9.6	342
34	$\text{NaVO}_2$ Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , <b>2018</b> , 18, 2402-2410	11.5	341
33	A layered $\text{MnO}_2$ nanoflake cathode with high zinc-storage capacities for eco-friendly battery applications. <i>Electrochemistry Communications</i> , <b>2015</b> , 60, 121-125	5.1	307
32	Enhanced reversible divalent zinc storage in a structurally stable $\text{MnO}_2$ nanorod electrode. <i>Journal of Power Sources</i> , <b>2015</b> , 288, 320-327	8.9	240
31	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy $\text{Zn}_2\text{V}_2\text{O}_7$ nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3850-3856	13	212
30	Facile synthesis and the exploration of the zinc storage mechanism of $\text{MnO}_2$ nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23299-23309	13	194
29	High rate performance of a $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ cathode prepared by pyro-synthesis for sodium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20857		162
28	$\text{K}_2\text{V}_6\text{O}_{16} \cdot 7\text{H}_2\text{O}$ nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15530-15539	13	132
27	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2376-2400	20.1	128
26	$\text{Co}_3\text{V}_2\text{O}_8$ Sponge Network Morphology Derived from Metal-Organic Framework as an Excellent Lithium Storage Anode Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8546-53	9.5	114
25	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy $\text{MgMn}_2\text{O}_4$ Cathode. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1998-2004	20.1	108
24	Ambient redox synthesis of vanadium-doped manganese dioxide nanoparticles and their enhanced zinc storage properties. <i>Applied Surface Science</i> , <b>2017</b> , 404, 435-442	6.7	91
23	The dominant role of $\text{Mn}^{2+}$ additive on the electrochemical reaction in $\text{ZnMn}_2\text{O}_4$ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 407-417	19.4	84
22	Carbon-coated manganese dioxide nanoparticles and their enhanced electrochemical properties for zinc-ion battery applications. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 815-819	12	75
21	$\text{K}^+$ intercalated $\text{V}_2\text{O}_5$ nanorods with exposed facets as advanced cathodes for high energy and high rate zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20335-20347	13	67
20	Metal-organic framework-combustion: a new, cost-effective and one-pot technique to produce a porous $\text{Co}_3\text{V}_2\text{O}_8$ microsphere anode for high energy lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14605-14613	13	56

19	Zn <sub>3</sub> V <sub>2</sub> O <sub>8</sub> porous morphology derived through a facile and green approach as an excellent anode for high-energy lithium ion batteries. <i>Chemical Engineering Journal</i> , <b>2017</b> , 328, 454-463	14.7	44
18	Investigation of Li-ion storage properties of earth abundant $\text{Mn}_2\text{V}_2\text{O}_7$ prepared using facile green strategy. <i>Journal of Power Sources</i> , <b>2017</b> , 350, 80-86	8.9	36
17	In Situ Oriented Mn Deficient ZnMnO@C Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Science</i> , <b>2021</b> , 8, 2002636	13.6	32
16	An Enhanced High-Rate NaV(PO) <sub>3</sub> -NiP Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 35235-35242	9.5	31
15	Facile green synthesis of a CoVO nanoparticle electrode for high energy lithium-ion battery applications. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 501, 133-141	9.3	28
14	Bitter gourd-shaped Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> anode developed by a one-pot metal-organic framework-combustion technique for advanced Li-ion batteries. <i>Ceramics International</i> , <b>2017</b> , 43, 13224-13232	5.1	28
13	Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> nanoparticles as an excellent anode material for high-energy lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 810, 34-40	4.1	22
12	A sponge network-shaped Mn <sub>3</sub> O <sub>4</sub> /C anode derived from a simple, one-pot metal organic framework-combustion technique for improved lithium ion storage. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 1609-1615	6.8	22
11	Multidimensional Na <sub>4</sub> V <sub>2</sub> Mn <sub>0.9</sub> Cu <sub>0.1</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12055-12068	13	19
10	Metal organic framework-combustion: A one-pot strategy to NiO nanoparticles with excellent anode properties for lithium ion batteries. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 300-305	12	17
9	Hyper oxidized V <sub>6</sub> O <sub>13</sub> ·xH <sub>2</sub> O layered cathode for aqueous rechargeable Zn battery: Effect on dual carriers transportation and parasitic reactions. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 47-61	19.4	12
8	C-Na <sub>3</sub> V <sub>1.96</sub> Fe <sub>0.04</sub> (PO <sub>4</sub> ) <sub>3</sub> /Fe <sub>2</sub> P nanoclusters with stable charge-transfer interface for high-power sodium ion batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126974	14.7	10
7	Na <sub>2.3</sub> Cu <sub>1.1</sub> Mn <sub>2</sub> O <sub>7</sub> nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 770-778	13	9
6	An analysis of the electrochemical mechanism of manganese oxides in aqueous zinc batteries. <i>Chem</i> , <b>2022</b> , 8, 924-946	16.2	7
5	The advent of manganese-substituted sodium vanadium phosphate-based cathodes for sodium-ion batteries and their current progress: a focused review. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 1022-1046	13	5
4	Hybrid porous zirconia scaffolds fabricated using additive manufacturing for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 111950	8.3	5
3	Three-Dimensional Zirconia-Based Scaffolds for Load-Bearing Bone-Regeneration Applications: Prospects and Challenges. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
2	Highly conductive ZrO <sub>2</sub> spheres as bifunctional framework stabilizers and gas evolution relievers in nickel-rich layered cathodes for lithium-ion batteries. <i>Composites Part B: Engineering</i> , <b>2022</b> , 238, 109911	10	2

1 Recent Developments of Zinc-Ion Batteries **2021**, 27-57

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