

Vaiyapuri Soundharrajan

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , 2022 , 10, 1022-1046	13.46	5
35	An analysis of the electrochemical mechanism of manganese oxides in aqueous zinc batteries. <i>CheM</i> , 2022 , 8, 924-946	16.2	7
34	Highly conductive ZrO ₂ spheres as bifunctional framework stabilizers and gas evolution relievers in nickel-rich layered cathodes for lithium-ion batteries. <i>Composites Part B: Engineering</i> , 2022 , 238, 109911	10	2
33	Hybrid porous zirconia scaffolds fabricated using additive manufacturing for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021 , 123, 111950	8.3	5
32	Three-Dimensional Zirconia-Based Scaffolds for Load-Bearing Bone-Regeneration Applications: Prospects and Challenges. <i>Materials</i> , 2021 , 14,	3.5	5
31	Hyper oxidized V ₆ O ₁₃ +xH ₂ O layered cathode for aqueous rechargeable Zn battery: Effect on dual carriers transportation and parasitic reactions. <i>Energy Storage Materials</i> , 2021 , 35, 47-61	19.4	12
30	C-Na ₃ V _{1.96} Fe _{0.04} (PO ₄) ₃ /Fe ₂ P nanoclusters with stable charge-transfer interface for high-power sodium ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 404, 126974	14.7	10
29	Recent Developments of Zinc-Ion Batteries 2021 , 27-57		0
28	In Situ Oriented Mn Deficient ZnMnO@C Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Science</i> , 2021 , 8, 2002636	13.6	32
27	Multidimensional Na ₄ V ₂ Mn _{0.9} Cu _{0.1} (PO ₄) ₃ /C cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12055-12068	13	19
26	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020 , 5, 2376-2400	20.1	128
25	Na _{2.3} Cu _{1.1} Mn ₂ O ₇ nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 770-778	13	9
24	The dominant role of Mn ²⁺ additive on the electrochemical reaction in ZnMn ₂ O ₄ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020 , 28, 407-417	19.4	84
23	K ⁺ intercalated V ₂ 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> , 2019 , 7, 20335-20347	13	67
22	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn ₂ V ₂ O ₇ nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3850-3856	13	212
21	Ni ₃ V ₂ O ₈ nanoparticles as an excellent anode material for high-energy lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 810, 34-40	4.1	22
20	NaVO ₂ BHO Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018 , 18, 2402-2410	11.5	341

19	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> , 2018 , 27, 300-305	12	17
18	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn ₂ O ₄ Cathode. <i>ACS Energy Letters</i> , 2018 , 3, 1998-2004	20.1	108
17	K ₂ V ₆ O ₁₆ ·7H ₂ O nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15530-15539	13	132
16	Ambient redox synthesis of vanadium-doped manganese dioxide nanoparticles and their enhanced zinc storage properties. <i>Applied Surface Science</i> , 2017 , 404, 435-442	6.7	91
15	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017 , 29, 1684-1694	9.6	342
14	Carbon-coated manganese dioxide nanoparticles and their enhanced electrochemical properties for zinc-ion battery applications. <i>Journal of Energy Chemistry</i> , 2017 , 26, 815-819	12	75
13	Facile green synthesis of a CoVO nanoparticle electrode for high energy lithium-ion battery applications. <i>Journal of Colloid and Interface Science</i> , 2017 , 501, 133-141	9.3	28
12	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> , 2017 , 350, 80-86	8.9	36
11	Facile synthesis and the exploration of the zinc storage mechanism of 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> , 2017 , 5, 23299-23309	13	194
10	Zn ₃ V ₂ O ₈ porous morphology derived through a facile and green approach as an excellent anode for high-energy lithium ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 328, 454-463	14.7	44
9	Bitter gourd-shaped Ni ₃ V ₂ O ₈ anode developed by a one-pot metal-organic framework-combustion technique for advanced Li-ion batteries. <i>Ceramics International</i> , 2017 , 43, 13224-13232	5.1	28
8	Metal-organic framework-combustion: a new, cost-effective and one-pot technique to produce a porous Co ₃ V ₂ O ₈ microsphere anode for high energy lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14605-14613	13	56
7	Co ₃ V ₂ O ₈ Sponge Network Morphology Derived from Metal-Organic Framework as an Excellent Lithium Storage Anode Material. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8546-53	9.5	114
6	An Enhanced High-Rate NaV(PO) ₄ -NiP Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35235-35242	9.5	31
5	A sponge network-shaped Mn ₃ O ₄ /C anode derived from a simple, one-pot metal organic framework-combustion technique for improved lithium ion storage. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1609-1615	6.8	22
4	Enhanced reversible divalent zinc storage in a structurally stable MnO_2 nanorod electrode. <i>Journal of Power Sources</i> , 2015 , 288, 320-327	8.9	240
3	Electrochemically Induced Structural Transformation in a MnO_2 Cathode of a High Capacity Zinc-Ion Battery System. <i>Chemistry of Materials</i> , 2015 , 27, 3609-3620	9.6	549
2	A layered MnO_2 nanoflake cathode with high zinc-storage capacities for eco-friendly battery applications. <i>Electrochemistry Communications</i> , 2015 , 60, 121-125	5.1	307

- 1 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. *Journal of Materials Chemistry*, **2012**, 22, 20857

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