

Kannadka Ramesha

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible anionic redox chemistry in high-capacity layered-oxide electrodes. Nature Materials, 2013, 12, 827-835.	27.5	1,192
2	Origin of voltage decay in high-capacity layered oxide electrodes. Nature Materials, 2015, 14, 230-238.	27.5	757
3	High Performance $\text{Li}_{2}\text{RuO}_{4}\text{-xMnO}_{3}$ (0.2 at%) Chemistry of Materials, 2013, 25, 1121-1131.	6.7	365
4	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered $\text{Li}_{4}\text{FeSbO}_{6}$. Journal of the American Chemical Society, 2015, 137, 4804-4814.	13.7	155
5	$\text{Li}_{4}\text{NiTeO}_{6}$ as a positive electrode for Li-ion batteries. Chemical Communications, 2013, 49, 11376.	4.1	96
6	Permselective SPEEK/Nafion Composite-Coated Separator as a Potential Polysulfide Crossover Barrier Layer for Li-S Batteries. ACS Applied Materials & Interfaces, 2018, 10, 19721-19729.	8.0	81
7	Synthesis of Hierarchically Porous SnO_{2} Microspheres and Performance Evaluation as Li-Ion Battery Anode by Using Different Binders. ACS Applied Materials & Interfaces, 2014, 6, 16556-16564.	8.0	66
8	Melamine assisted liquid exfoliation approach for the synthesis of nitrogen doped graphene-like carbon nano sheets from bio-waste bagasse material and its application towards high areal density Li-S batteries. Carbon, 2019, 144, 582-590.	10.3	61
9	A comparative study on electrochemical cycling stability of lithium rich layered cathode materials $\text{Li}_{1.2}\text{Ni}_{0.13}\text{M}_{0.13}\text{Mn}_{0.54}\text{O}_{2}$ where $\text{M}=\text{Fe}$ or Co . Journal of Power Sources, 2016, 324, 462-474.	7.8	59
10	Constraining polyselenide formation in ether based electrolytes through confinement of Se in microporous carbon matrix for Li-Se batteries. Electrochimica Acta, 2016, 219, 295-304.	5.2	57
11	MoS_{2} Nanoflower-Derived Interconnected CoMoO_{4} Nanoarchitectures as a Stable and High Rate Performing Anode for Lithium-Ion Battery Applications. ACS Applied Materials & Interfaces, 2020, 12, 11511-11521.	8.0	50
12	Photocatalytic properties of KBiO_{3} and LiBiO_{3} with tunnel structures. Journal of Chemical Sciences, 2011, 123, 517-524.	1.5	46
13	[Co(salen)] derived Co/ $\text{Co}_{3}\text{O}_{4}$ nanoparticle@carbon matrix as high-performance electrode for energy storage applications. Journal of Power Sources, 2017, 344, 103-110.	7.8	46
14	LAGP Li Interface Modification through a Wetted Polypropylene Interlayer for Solid State Li-Ion and Li-S batteries. ACS Applied Energy Materials, 2019, 2, 4118-4125.	5.1	46
15	Enhanced electrochemical performance of lithium rich layered cathode materials by Ca^{2+} substitution. Electrochimica Acta, 2017, 256, 10-18.	5.2	39
16	Self-assembled lamellar alpha-molybdenum trioxide as high performing anode material for lithium-ion batteries. Journal of Power Sources, 2015, 278, 630-638.	7.8	36
17	Improving Electrochemical Stability by Transition Metal Cation Doping for Manganese in Lithium-rich Layered Cathode, $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54-x}\text{M}_{x}\text{O}_{2}$ ($\text{M} = \text{Co}, \text{Cr}$ and Fe). Electrochimica Acta, 2017, 249, 377-386.	5.2	35
18	Perovskite and Pyrochlore Modifications of $\text{Pb}_{2}\text{MnReO}_{6}$: Synthesis, Structure, and Electronic Properties. Chemistry of Materials, 2003, 15, 668-674.	6.7	33

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19	Facile Approach To Prepare Multiple Heteroatom-Doped Carbon Material from Bagasse and Its Applications toward Lithium-Ion and Lithium-Sulfur Batteries. <i>Energy & Fuels</i> , 2021, 35, 8286-8294.	5.1	28
20	Visible light assisted photocatalytic degradation of organic dyes on TiO ₂ /CNT nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 72-82.	2.4	25
21	Silica template assisted synthesis of ordered mesoporous MnO ₂ nanostructures and their performance evaluation as negative electrode in Li-ion batteries. <i>Electrochimica Acta</i> , 2018, 292, 532-539.	5.2	23
22	Tuning of Ni, Mn, and Co (NMC) Content in 0.4(LiNi _x Mn _y Co _z O ₂) _{0.4} (Li ₂ MnO ₃) toward Stable High-Capacity Lithium-Rich Cathode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 10872-10881.	5.1	23
23	Mo ₃ Nb ₂ O ₁₄ : A high-rate intercalation electrode material for Li-ion batteries with liquid and garnet based hybrid solid electrolytes. <i>Journal of Power Sources</i> , 2019, 436, 226850.	7.8	22
24	MoS ₂ anchored carbon nitride based mesoporous material as a polysulfide barrier for high capacity lithium-sulfur battery. <i>Journal of Electroanalytical Chemistry</i> , 2019, 843, 37-46.	3.8	22
25	Nanocrystalline silicon embedded highly conducting phosphorus doped silicon thin film as high power lithium ion battery anode. <i>Electrochimica Acta</i> , 2020, 330, 135318.	5.2	22
26	High rate capability and cyclic stability of hierarchically porous Tin oxide (IV)-carbon nanofibers as anode in lithium ion batteries. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 449-462.	3.1	18
27	Effect of heat treatment temperature on energy storage performance of PAN-co-MMA based carbon nanofibers as freestanding lithium ion batteries anode. <i>Energy Storage</i> , 2019, 1, e89.	4.3	18
28	Pb ₂ FeReO ₆ : new defect pyrochlore oxide with a geometrically frustrated Fe/Re sublattice. Electronic supplementary information (ESI) available: powder XRD patterns of pyrochlores Pb ₂ FeReO ₆ .1 and Pb ₂ FeReO ₅ .81. See http://www.rsc.org/suppdata/jm/b3/b304118m/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 2011.	6.7	16
29	A Convenient Synthesis Route for Co ₃ O ₄ Hollow Microspheres and Their Application as a High Performing Anode in Li-Ion Batteries. <i>ACS Omega</i> , 2017, 2, 7647-7657.	3.5	16
30	Synthesis and photocatalytic properties of Ag[Li _{1/3} Ru _{2/3}]O ₂ : A new delafossite oxide. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 141-146.	3.5	15
31	Improving the Electrochemical Performance of Li ₂ RuO ₃ through Chemical Substitution: A Case Study of (Li _x)LiCoO ₂ -(1-x)Li ₂ RuO ₃ Solid Solution (x=0.4). <i>ChemElectroChem</i> , 2020, 7, 328-335.	3.4	15
32	Ordered 1D and 3D mesoporous Co ₃ O ₄ structures: Effect of morphology on Li-ion storage and high rate performance. <i>Electrochimica Acta</i> , 2019, 310, 184-194.	5.2	14
33	Hollow Co ₃ O ₄ Microspheres Grafted with Nitrogen-Doped Carbon Nanotubes as Efficient Sulfur Host for High Performing Lithium-Sulfur Batteries. <i>Energy & Fuels</i> , 2020, 34, 16810-16818.	5.1	14
34	Graphene anchored mesoporous MnO ₂ nanostructures as stable and high-performance anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2022, 414, 140164.	5.2	14
35	Synthesis and investigation of electrochemical performance of mixed valent Li ₄ FeMoO ₆ as positive electrode material in rechargeable lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 436, 226870.	7.8	13
36	The Si ₃ N ₄ /MoS ₂ hetero-structure as an effective polysulfide regulator for high-performance lithium-sulfur battery. <i>Applied Materials Today</i> , 2021, 22, 100916.	4.3	11

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37	MnCo ₂ O ₄ Spiny Microspheres as Polysulfide Anchors and Conversion Catalysts for High-Performance Li-S Batteries. Energy & Fuels, 2022, 36, 2202-2211.	5.1	8
38	Synthesis of new (Bi, La) ₃ MSb ₂ O ₁₁ phases (M = Cr, Mn, Fe) with KSbO ₃ -type structure and their magnetic and photocatalytic properties. Bulletin of Materials Science, 2011, 34, 271-277.	1.7	7
39	Nitrogen-doped graphene-like carbon from bio-waste as efficient low-cost electrocatalyst for fuel cell application. Bulletin of Materials Science, 2021, 44, 1.	1.7	7
40	Proliferation of Atomic Shuffling through Mechanical Stress on Cationic Disorder Li ₄ FeMoO ₆ as a Cathode Material for a Lithium-Ion Battery. ACS Applied Energy Materials, 2020, 3, 8716-8724.	5.1	6
41	Template assisted synthesis of Sn@C microspheres and SnO ₂ @C micro bowls as anode for Li-ion batteries. Energy Storage, 2020, 2, e152.	4.3	3
42	State of health monitoring of Li-ion batteries using dynamic resistance mapping and regression. CSI Transactions on ICT, 2016, 4, 23-28.	1.0	2
43	Influence of lithium metal anode coated with a composite quasi-solid electrolyte on stabilizing the interface of all-solid-state battery. Ionics, 2022, 28, 2649-2660.	2.4	2