

Rajankumar L Patel

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,421
citations

567281

15
h-index

642732

23
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all docs

23
docs citations

23
times ranked

2075
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of an Unexpected Metal Dissolution of Thin-Coated Cathode Particles and Its Theoretical Explanation. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000002.	2.8	8
2	Hierarchical porous silicon structures with extraordinary mechanical strength as high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2020, 11, 1474.	12.8	298
3	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , 2019, 31, e1900567.	21.0	299
4	High performance porous Si@C anodes synthesized by low temperature aluminothermic reaction. <i>Electrochimica Acta</i> , 2018, 269, 509-516.	5.2	51
5	Boosting the Electrochemical Performance of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ by Atomic Layer-Deposited CeO_2 Coating. <i>ACS Omega</i> , 2018, 3, 906-916.	3.5	35
6	Hierarchically Porous Carbon Materials for CO_2 Capture: The Role of Pore Structure. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1262-1268.	3.7	83
7	A novel approach to synthesize micrometer-sized porous silicon as a high performance anode for lithium-ion batteries. <i>Nano Energy</i> , 2018, 50, 589-597.	16.0	191
8	Significant improvement in TiO_2 photocatalytic activity through controllable ZrO_2 deposition. <i>RSC Advances</i> , 2018, 8, 25829-25834.	3.6	15
9	Ultrathin Conductive CeO_2 Coating for Significant Improvement in Electrochemical Performance of $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6236-A6243.	2.9	28
10	Unveiling the Role of CeO_2 Atomic Layer Deposition Coatings on LiMn_2O_4 Cathode Materials: An Experimental and Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30599-30607.	8.0	29
11	Employing Synergetic Effect of Doping and Thin Film Coating to Boost the Performance of Lithium-Ion Battery Cathode Particles. <i>Scientific Reports</i> , 2016, 6, 25293.	3.3	23
12	A 1-D coordination polymer route to catalytically active Co@C nanoparticles. <i>RSC Advances</i> , 2016, 6, 38533-38540.	3.6	10
13	Adsorption of metal and metalloid ions onto nanoporous microparticles functionalized by atomic layer deposition. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3767-3774.	6.7	10
14	Ionic and electronic conductivities of atomic layer deposition thin film coated lithium ion battery cathode particles. <i>RSC Advances</i> , 2016, 6, 98768-98776.	3.6	15
15	The ubiquitous paddle-wheel building block in two-dimensional coordination polymers with square grid structure. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1957-1969.	2.2	6
16	Enhanced cycle life and capacity retention of iron oxide ultrathin film coated SnO_2 nanoparticles at high current densities. <i>RSC Advances</i> , 2016, 6, 24340-24348.	3.6	7
17	Atomic Layer Deposition: Significant Capacity and Cycle-Life Improvement of Lithium-Ion Batteries through Ultrathin Conductive Film Stabilized Cathode Particles (<i>Adv. Mater. Interfaces</i> 8/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	3.7	1
18	Significant Capacity and Cycle-Life Improvement of Lithium-Ion Batteries through Ultrathin Conductive Film Stabilized Cathode Particles. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500046.	3.7	35

#	ARTICLE	IF	CITATIONS
19	Highly porous titania films coated on sub-micron particles with tunable thickness by molecular layer deposition in a fluidized bed reactor. <i>Ceramics International</i> , 2015, 41, 2240-2246.	4.8	19
20	Porous titania microspheres with uniform wall thickness and high photoactivity. <i>Ceramics International</i> , 2014, 40, 3097-3103.	4.8	8
21	Stabilizing Nanostructured Solid Oxide Fuel Cell Cathode with Atomic Layer Deposition. <i>Nano Letters</i> , 2013, 13, 4340-4345.	9.1	149
22	Encapsulation of supported metal nanoparticles with an ultra-thin porous shell for size-selective reactions. <i>Chemical Communications</i> , 2013, 49, 10067.	4.1	28
23	Atomic Layer Deposition Functionalized Composite SOFC Cathode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ - $\text{Gd}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$: Enhanced Long-Term Stability. <i>Chemistry of Materials</i> , 2013, 25, 4224-4231.	6.7	73