# RajankumarÂ L Patel

List of Publications by Year
in descending order

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|---|---|---|---|
| 23 papers | 1,421 citations | 567281 15 h-index | 642732 23 g-index |
| 23 all docs | 23 docs citations | 23 times ranked | 2075 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Joint Charge Storage for Highâ€Rate Aqueous Zincâ€“Manganese Dioxide Batteries. Advanced Materials, 2019, 31, e1900567. | 21.0 | 299 |
| 2 | Hierarchical porous silicon structures with extraordinary mechanical strength as high-performance lithium-ion battery anodes. Nature Communications, 2020, 11, 1474. | 12.8 | 298 |
| 3 | A novel approach to synthesize micrometer-sized porous silicon as a high performance anode for lithium-ion batteries. Nano Energy, 2018, 50, 589-597. | 16.0 | 191 |
| 4 | Stabilizing Nanostructured Solid Oxide Fuel Cell Cathode with Atomic Layer Deposition. Nano Letters, 2013, 13, 4340-4345. | 9.1 | 149 |
| 5 | Hierarchically Porous Carbon Materials for CO<sub>2</sub> Capture: The Role of Pore Structure. Industrial & Engineering Chemistry Research, 2018, 57, 1262-1268. | 3.7 | 83 |
| 6 | Atomic Layer Deposition Functionalized Composite SOFC Cathode La<sub>0.6</sub>Sr<sub>0.4</sub>Fe<sub>0.8</sub>Co<sub>0.2</sub>O<sub>3-Î´</sub> -Gd<sub>0.2</sub>Ce<sub>0.8</sub>O<sub>1.9</sub>: Enhanced Long-Term Stability. Chemistry of Materials, 2013, 25, 4224-4231. | 6.7 | 73 |
| 7 | High performance porous Si@C anodes synthesized by low temperature aluminothermic reaction. Electrochimica Acta, 2018, 269, 509-516. | 5.2 | 51 |
| 8 | Significant Capacity and Cycleâ€Life Improvement of Lithiumâ€Ion Batteries through Ultrathin Conductive Film Stabilized Cathode Particles. Advanced Materials Interfaces, 2015, 2, 1500046. | 3.7 | 35 |
| 9 | Boosting the Electrochemical Performance of Li<sub>1.2</sub>Mn<sub>0.54</sub>Ni<sub>0.13</sub>Co<sub>0.13</sub>O<sub>2</sub> by Atomic Layer-Deposited CeO<sub>2</sub> Coating. ACS Omega, 2018, 3, 906-916. | 3.5 | 35 |
| 10 | Unveiling the Role of CeO<sub>2</sub> Atomic Layer Deposition Coatings on LiMn<sub>2</sub>O<sub>4</sub> Cathode Materials: An Experimental and Theoretical Study. ACS Applied Materials & Interfaces, 2017, 9, 30599-30607. | 8.0 | 29 |
| 11 | Encapsulation of supported metal nanoparticles with an ultra-thin porous shell for size-selective reactions. Chemical Communications, 2013, 49, 10067. | 4.1 | 28 |
| 12 | Ultrathin Conductive CeO<sub>2</sub>Coating for Significant Improvement in Electrochemical Performance of LiMn<sub>1.5</sub>Ni<sub>0.5</sub>O<sub>4</sub>Cathode Materials. Journal of the Electrochemical Society, 2017, 164, A6236-A6243. | 2.9 | 28 |
| 13 | Employing Synergetic Effect of Doping and Thin Film Coating to Boost the Performance of Lithium-Ion Battery Cathode Particles. Scientific Reports, 2016, 6, 25293. | 3.3 | 23 |
| 14 | Highly porous titania films coated on sub-micron particles with tunable thickness by molecular layer deposition in a fluidized bed reactor. Ceramics International, 2015, 41, 2240-2246. | 4.8 | 19 |
| 15 | Ionic and electronic conductivities of atomic layer deposition thin film coated lithium ion battery cathode particles. RSC Advances, 2016, 6, 98768-98776. | 3.6 | 15 |
| 16 | Significant improvement in TiO<sub>2</sub> photocatalytic activity through controllable ZrO<sub>2</sub> deposition. RSC Advances, 2018, 8, 25829-25834. | 3.6 | 15 |
| 17 | A 1-D coordination polymer route to catalytically active Co@C nanoparticles. RSC Advances, 2016, 6, 38533-38540. | 3.6 | 10 |
| 18 | Adsorption of metal and metalloid ions onto nanoporous microparticles functionalized by atomic layer deposition. Journal of Environmental Chemical Engineering, 2016, 4, 3767-3774. | 6.7 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Porous titania microspheres with uniform wall thickness and high photoactivity. Ceramics International, 2014, 40, 3097-3103. | 4.8 | 8 |
| 20 | Discovery of an Unexpected Metal Dissolution of Thinâ€Coated Cathode Particles and Its Theoretical Explanation. Advanced Theory and Simulations, 2020, 3, 2000002. | 2.8 | 8 |
| 21 | Enhanced cycle life and capacity retention of iron oxide ultrathin film coated SnO2 nanoparticles at high current densities. RSC Advances, 2016, 6, 24340-24348. | 3.6 | 7 |
| 22 | The ubiquitous paddle-wheel building block in two-dimensional coordination polymers with square grid structure. Journal of Coordination Chemistry, 2016, 69, 1957-1969. | 2.2 | 6 |
| 23 | Atomic Layer Deposition: Significant Capacity and Cycleâ€Life Improvement of Lithiumâ€Ion Batteries through Ultrathin Conductive Film Stabilized Cathode Particles (Adv. Mater. Interfaces 8/2015). Advanced Materials Interfaces, 2015, 2, . | 3.7 | 1 |