Aravindaraj G Kannan

List of Publications by Year
in descending order

19	1,427	430874 18	794594 19
papers	citations	h-index	g-index

19	19	19	2718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface enriched graphene hollow spheres towards building ultra-high power sodium-ion capacitor with long durability. Energy Storage Materials, 2020, 25, 702-713.	18.0	39
2	Cinnamon-Derived Hierarchically Porous Carbon as an Effective Lithium Polysulfide Reservoir in Lithiumâ€“Sulfur Batteries. Nanomaterials, 2020, 10, 1220.	4.1	18
3	High-energy green supercapacitor driven by ionic liquid electrolytes as an ultra-high stable next-generation energy storage device. Journal of Power Sources, 2018, 383, 102-109.	7.8	108
4	Highly interconnected hollow graphene nanospheres as an advanced high energy and high power cathode for sodium metal batteries. Journal of Materials Chemistry A, 2018, 6, 9846-9853.	10.3	30
5	High performance organic sodium-ion hybrid capacitors based on nano-structured disodium rhodizonate rivaling inorganic hybrid capacitors. Green Chemistry, 2018, 20, 4920-4931.	9.0	21
6	Nitrogen- and sulfur-enriched porous carbon from waste watermelon seeds for high-energy, high-temperature green ultracapacitors. Journal of Materials Chemistry A, 2018, 6, 17751-17762.	10.3	45
7	High Volumetric Quasiâ€Solidâ€State Sodiumâ€Ion Capacitor under High Mass Loading Conditions. Advanced Materials Interfaces, 2018, 5, 1800472.	3.7	35
8	Effective Trapping of Lithium Polysulfides Using a Functionalized Carbon Nanotube-Coated Separator for Lithiumâ€“Sulfur Cells with Enhanced Cycling Stability. ACS Applied Materials & Interfaces, 2017, 9, 38445-38454.	8.0	82
9	Electric double layer capacitors employing nitrogen and sulfur co-doped, hierarchically porous graphene electrodes with synergistically enhanced performance. Journal of Power Sources, 2017, 337, 65-72.	7.8	44
10	Sub-zero temperature thermo-electrochemical energy harvesting system using a self-heating negative temperature coefficient CNT-vanadium oxide cathode. Journal of Applied Electrochemistry, 2017, 47, 125-132.	2.9	1
11	Cross-linked Composite Gel Polymer Electrolyte using Mesoporous Methacrylate-Functionalized SiO2 Nanoparticles for Lithium-Ion Polymer Batteries. Scientific Reports, 2016, 6, 26332.	3.3	176
12	Performance Enhancement of Silicon Alloy-Based Anodes Using Thermally Treated Poly(amide imide) as a Polymer Binder for High Performance Lithium-Ion Batteries. Langmuir, 2016, 32, 3300-3307.	3.5	46
13	Improvement of Cycling Performance of Lithiumâ€“Sulfur Batteries by Using Magnesium Oxide as a Functional Additive for Trapping Lithium Polysulfide. ACS Applied Materials & Interfaces, 2016, 8, 4000-4006.	8.0	161
14	Silicon nanoparticles grown on a reduced graphene oxide surface as high-performance anode materials for lithium-ion batteries. RSC Advances, 2016, 6, 25159-25166.	3.6	25
15	Improvement of the Cycling Performance and Thermal Stability of Lithium-Ion Cells by Double-Layer Coating of Cathode Materials with Al₂O₃ Nanoparticles and Conductive Polymer. ACS Applied Materials & Interfaces, 2015, 7, 13944-13951.	8.0	151
16	Role of Graphene Oxide as a Sacrificial Interlayer for Enhanced Photoelectrochemical Water Oxidation of Hematite Nanorods. Journal of Physical Chemistry C, 2015, 119, 19996-20002.	3.1	29
17	A bi-functional metal-free catalyst composed of dual-doped graphene and mesoporous carbon for rechargeable lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 18456-18465.	10.3	81
18	Effective Suppression of Dendritic Lithium Growth Using an Ultrathin Coating of Nitrogen and Sulfur Codoped Graphene Nanosheets on Polymer Separator for Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23700-23707.	8.0	210

#	Article	IF	Citations
19	Nitrogen and sulfur co-doped graphene counter electrodes with synergistically enhanced performance for dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 12232-12239.	10.3	125