

# Arthi Gopalakrishnan

## List of Publications by Citations

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37  
papers

782  
citations

14  
h-index

27  
g-index

37  
ext. papers

1,167  
ext. citations

5.2  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
37	Effect of self-doped heteroatoms on the performance of biomass-derived carbon for supercapacitor applications. <i>Journal of Power Sources</i> , <b>2020</b> , 480, 228830	8.9	121
36	Removal of heavy metal ions from pharma-effluents using graphene-oxide nanosorbents and study of their adsorption kinetics. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 30, 14-19	6.3	116
35	Green synthesis of nitrogen, sulfur-co-doped worm-like hierarchical porous carbon derived from ginger for outstanding supercapacitor performance. <i>Carbon</i> , <b>2020</b> , 168, 209-219	10.4	94
34	Scalable, large-area synthesis of heteroatom-doped few-layer graphene-like microporous carbon nanosheets from biomass for high-capacitance supercapacitors. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1186-1194	3.6	54
33	Ultrathin graphene-like 2D porous carbon nanosheets and its excellent capacitance retention for supercapacitor. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 68, 257-266	6.3	49
32	Sulfonated porous carbon nanosheets derived from oak nutshell based high-performance supercapacitor for powering electronic devices. <i>Renewable Energy</i> , <b>2020</b> , 161, 173-183	8.1	44
31	Facile one-pot synthesis of hollow NiCoP nanospheres via thermal decomposition technique and its free-standing carbon composite for supercapacitor application. <i>Journal of Energy Storage</i> , <b>2019</b> , 25, 100893	7.8	28
30	Template-Assisted Electrospinning of Bubbled Carbon Nanofibers as Binder-Free Electrodes for High-Performance Supercapacitors. <i>ChemElectroChem</i> , <b>2018</b> , 5, 531-539	4.3	25
29	Cuprous oxide nanocubes decorated reduced graphene oxide nanosheets embedded in chitosan matrix: A versatile electrode material for stable supercapacitor and sensing applications. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 834, 187-195	4.1	24
28	Disposable, efficient and highly selective electrochemical sensor based on Cadmium oxide nanoparticles decorated screen-printed carbon electrode for ascorbic acid determination in fruit juices. <i>Nano Structures Nano Objects</i> , <b>2018</b> , 16, 96-103	5.6	22
27	Facile synthesis of 3D/2D Cu <sub>2</sub> Se cauliflower/CuS nanosheets composite as a binder-free electrode for high-performance asymmetric solid-state supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 156241	5.7	21
26	Template-cum-catalysis free synthesis of MnO <sub>2</sub> nanorods-hierarchical MoS <sub>2</sub> microspheres composite for ultra-sensitive and selective determination of nitrite. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 794, 26-34	5.7	20
25	Impact of intrinsic iron on electrochemical oxidation of pencil graphite and its application as supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 274-281	6.7	17
24	Hierarchical Architected Dahlia Flower-Like NiCo <sub>2</sub> O <sub>4</sub> /NiCoSe <sub>2</sub> as a Bifunctional Electrode for High-Energy Supercapacitor and Methanol Fuel Cell Application. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 9646-9659	4.1	14
23	Three-dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & pressure sensing applications. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 7242-7253	4.5	12
22	Facile Synthesis of Highly Porous N-Doped Carbon Nanosheets with Silica Nanoparticles for Ultrahigh Capacitance Supercapacitors. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11508-11518	4.1	12
21	From onion skin waste to multi-heteroatom self-doped highly wrinkled porous carbon nanosheets for high-performance supercapacitor device. <i>Journal of Energy Storage</i> , <b>2021</b> , 38, 102533	7.8	12

20	Low temperature, one-pot green synthesis of tailored carbon nanostructures/reduced graphene oxide composites and its investigation for supercapacitor application. <i>Materials Letters</i> , <b>2017</b> , 198, 46-49 <sup>3,3</sup>		11
19	Facile sonochemical assisted synthesis of a hybrid red-black phosphorus/sulfonated porous carbon composite for high-performance supercapacitors. <i>Chemical Communications</i> , <b>2020</b> , 56, 7096-7099	5.8	10
18	Reusable, few-layered-MoS <sub>2</sub> nanosheets/graphene hybrid on cellulose paper for superior adsorption of methylene blue dye. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 5489-5500	3.6	9
17	Phytogenic generation of NiO nanoparticles as green-electrode material for high performance asymmetric supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2021</b> , 37, 102412	7.8	9
16	Efficiency and stability aspects of CdS photoanode for solar hydrogen generation technology. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 755, 012006	0.3	8
15	Thermal decomposition assisted one-step synthesis of high surface area NiCoP nanospheres for simultaneous sensing of Lead, Mercury and Cadmium ions in groundwater samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 861, 113937	4.1	6
14	Single Step, Direct Pyrolysis Assisted Synthesis of Nitrogen-Doped Porous Carbon Nanosheets Derived from Bamboo wood for High Energy Density Asymmetric Supercapacitor. <i>Journal of Energy Storage</i> , <b>2021</b> , 42, 103048	7.8	6
13	Reusable, Free-Standing MoS <sub>2</sub> /rGO/Cu <sub>2</sub> O Ternary Composite Films for Fast and Highly Efficient Sunlight Driven Photocatalytic Degradation. <i>ChemistrySelect</i> , <b>2020</b> , 5, 1997-2007	1.8	5
12	One-step solid-state reaction synthesis of NaFeO <sub>2</sub> nanoparticle as high capacity cathode material for sodium ion batteries. <i>Materials Letters</i> , <b>2020</b> , 270, 127739	3.3	5
11	Vertically Aligned Few-Layer Crumpled MoS <sub>2</sub> Hybrid Nanostructure on Porous Ni Foam toward Promising Binder-Free Methanol Electro-Oxidation Application. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 10169-10180	4.1	5
10	Facile synthesis of biomass-derived sulfonated carbon microspheres and nanosheets for the electrochemical detection of glutathione in biological samples. <i>Materials Letters</i> , <b>2021</b> , 282, 128683	3.3	5
9	Gelatinization assisted synthesis of multi-heteroatoms enriched 3D honeycomb-like porous carbon for high-voltage supercapacitor device. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103261	7.8	5
8	Highly Stable NiCoZn Ternary Mixed-Metal-Oxide Nanorods as a Low-Cost, Non-Noble Electrocatalyst for Methanol Electro-Oxidation in Alkaline Medium. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 12507-12515 <sup>3</sup>	4.1	5
7	Binder-free polyaniline sheathed crumpled cobalt diselenide nanoparticles as an advanced electrode for high specific energy asymmetric supercapacitor. <i>Journal of Energy Storage</i> , <b>2021</b> , 41, 102853 <sup>8</sup>	7.8	3
6	Paper based large area Graphene/MoS <sub>2</sub> visible light photodetector <b>2017</b> ,		2
5	A low-cost and facile electrochemical sensor for the trace-level recognition of flutamide in biofluids using large-area bimetallic NiCo <sub>2</sub> O <sub>4</sub> micro flowers. <i>New Journal of Chemistry</i> ,	3.6	2
4	One-pot hydrothermal synthesis of NiCoZn a ternary mixed metal oxide nanorod based electrochemical sensor for trace level recognition of dopamine in biofluids. <i>Materials Letters</i> , <b>2021</b> , 298, 130044	3.3	2
3	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of acid glycoprotein in biofluids. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1169, 338598	6.6	1

- 2 Three-dimensional CoSe<sub>2</sub> nanoparticles/PANI films composite via co-electrodeposition as a binder-free and a non-noble metal catalyst alternative for methanol oxidation application. *Materials Chemistry and Physics*, **2021**, 273, 125118 4.4 ○
- 1 Flexible supercapacitors based on 2D materials **2021**, 253-310