

Vinodh Rajangam

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73
papers

1,570
citations

21
h-index

37
g-index

77
ext. papers

2,123
ext. citations

5
avg, IF

5.49
L-index

#	Paper	IF	Citations
73	Novel quaternized polysulfone/ZrO ₂ composite membranes for solid alkaline fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7291-7302	6.7	108
72	A novel anion exchange membrane from polystyrene (ethylene butylene) polystyrene: Synthesis and characterization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 167, 43-50	3.1	90
71	An ultrasensitive photoelectrochemical biosensor for glucose based on bio-derived nitrogen-doped carbon sheets wrapped titanium dioxide nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 160-169	11.8	87
70	Co ₉ S ₈ -Ni ₃ S ₂ /CuMn ₂ O ₄ -NiMn ₂ O ₄ and MnFe ₂ O ₄ -ZnFe ₂ O ₄ /graphene as binder-free cathode and anode materials for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 381, 122640	14.7	84
69	Betel-derived nitrogen-doped multicolor carbon dots for environmental and biological applications. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111817	6	82
68	In-situ green synthesis of nitrogen-doped carbon dots for bioimaging and TiO ₂ nanoparticles@nitrogen-doped carbon composite for photocatalytic degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 12-24	5.7	81
67	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. <i>Journal of Energy Storage</i> , 2020 , 27, 101035	7.8	75
66	Separation of heavy metals from water samples using anion exchange polymers by adsorption process. <i>Desalination</i> , 2011 , 267, 267-276	10.3	63
65	Selective integration of hierarchical nanostructured energy materials: an effective approach to boost the energy storage performance of flexible hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6374-6386	13	56
64	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. <i>Electronics (Switzerland)</i> , 2020 , 9, 1161	2.6	54
63	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 32, 101831	7.8	46
62	Green synthesis of nitrogen-doped carbon nanograss for supercapacitors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 102, 475-486	5.3	39
61	Hierarchical nanostructured MnCo ₂ O ₄ /NiCo ₂ O ₄ composites as innovative electrodes for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018 , 42, 17190-17194	3.6	32
60	Facile synthesis of hierarchical flower-like NiMoO ₄ -CoMoO ₄ nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 30, 101550	7.8	31
59	Carbon supported silver (Ag/C) electrocatalysts for alkaline membrane fuel cells. <i>Journal of Materials Science</i> , 2012 , 47, 852-859	4.3	30
58	Binder-free honeycomb-like FeMoO ₄ nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 27, 101055	7.8	29
57	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 28, 101196	7.8	26

56	Novel electrode material derived from porous polymeric organic framework of phloroglucinol and terephthaldehyde for symmetric supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 28, 101283	7.8	25
55	Preparation and characterization of CoWO ₄ /CoMn ₂ O ₄ nanoflakes composites on Ni foam for electrochemical supercapacitor applications. <i>Journal of Energy Storage</i> , 2020 , 30, 101483	7.8	23
54	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 100925	7.8	21
53	Oxidation of Ethylbenzene Using Nickel Oxide Supported Metal Organic Framework Catalyst. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 3213-3218	1.2	21
52	Solvent free oxidation of ethylbenzene over Ce-BTC MOF. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 1358-1364	3.6	21
51	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. <i>Materials Letters</i> , 2020 , 263, 127222	3.3	20
50	Novel microporous hypercross-linked polymers as sorbent for volatile organic compounds and CO ₂ adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 1231-1238	6.3	19
49	Leftover Kiwi Fruit Peel-Derived Carbon Dots as a Highly Selective Fluorescent Sensor for Detection of Ferric Ion. <i>Chemosensors</i> , 2021 , 9, 166	4	19
48	Chitin and chitosan based biopolymer derived electrode materials for supercapacitor applications: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 104, 155-155	6.3	19
47	Effect of the cobalt and zinc ratio on the preparation of zeolitic imidazole frameworks (ZIFs): synthesis, characterization and supercapacitor applications. <i>Dalton Transactions</i> , 2019 , 48, 14808-14819	4.3	18
46	Novel composite electrode material derived from hypercross-linked polymer of pyrene and polyaniline for symmetric supercapacitor. <i>Materials Letters</i> , 2019 , 257, 126732	3.3	18
45	Facile synthesis of hierarchical agglomerated cauliflower-like ZnWO ₄ @NiO nanostructures as an efficient electrode material for high-performance supercapacitor applications. <i>Materials Letters</i> , 2020 , 268, 127594	3.3	16
44	Transition metal chalcogenide based MnSe heterostructured with NiCo ₂ O ₄ as a new high performance electrode material for capacitive energy storage. <i>New Journal of Chemistry</i> , 2019 , 43, 12630-12640	3.6	16
43	Facile synthesis of nanoparticles anchored on honeycomb-like MnCo ₂ S ₄ nanostructures as a binder-free electroactive material for supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 27, 101159	7.8	16
42	One-pot synthesis of Fe ₃ O ₄ @graphite sheets as electrocatalyst for water electrolysis. <i>Fuel</i> , 2020 , 277, 118235	7.1	15
41	Biowaste-originated heteroatom-doped porous carbonaceous material for electrochemical energy storage application. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 98, 308-317	6.3	15
40	Synthesis and characterization of semiconducting porous carbon for energy applications and CO ₂ adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 32, 273-281	6.3	14
39	Multicolor-emitting carbon dots from <i>Malus floribunda</i> and their interaction with <i>Caenorhabditis elegans</i> . <i>Materials Letters</i> , 2020 , 261, 127153	3.3	14

38	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO ₂ nanostructures as advanced electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 100914	7.8	13
37	Rational design of asymmetric aqueous supercapacitor based on NAXMnO ₂ and N-doped reduced graphene oxide. <i>Journal of Energy Storage</i> , 2020 , 28, 101293	7.8	13
36	One-pot synthesis of copper oxide/cobalt oxide core/shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. <i>Materials Today Energy</i> , 2019 , 14, 100358	7	13
35	Quaternized poly(styrene ethylene butylene poly styrene)/multiwalled carbon nanotube composites for alkaline fuel cell applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5522-33	1.3	13
34	A new strategy to synthesize hypercross-linked conjugated polystyrene and its application towards CO ₂ sorption. <i>Fibers and Polymers</i> , 2015 , 16, 1458-1467	2	12
33	A Novel Composite Membrane from QPSU and SiO ₂ for Solid Alkaline Fuel Cell Applications. <i>International Journal of Green Energy</i> , 2015 , 12, 756-765	3	12
32	Porous shiitake mushroom carbon composite with NiCo ₂ O ₄ nanorod electrochemical characteristics for efficient supercapacitor applications. <i>Ionics</i> , 2020 , 26, 345-354	2.7	12
31	Homopiperazine grafted mesoporous silicas from rice husk ash for CO ₂ adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4639-48	1.3	11
30	Facile synthesis of amine modified silica/reduced graphene oxide composite sorbent for CO ₂ adsorption. <i>Materials Letters</i> , 2019 , 247, 44-47	3.3	10
29	Green Synthesis of SnO ₂ Nanoparticles for Catalytic Degradation of Rhodamine B 2020 , 44, 661-676		9
28	Morphology-dependent binder-free CuNiO ₂ electrode material with excellent electrochemical performances for supercapacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 101037	7.8	9
27	Novel 13X Zeolite/PANI electrocatalyst for hydrogen and oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28337-28349	6.7	9
26	One-step facile synthesis of dense cloud-like tiny bundled nanoparticles of CuS nanostructures as an efficient electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 27, 101148	7.8	8
25	Solid Waste-Derived Carbon Fibers-Trapped Nickel Oxide Composite Electrode for Energy Storage Application. <i>Energy & Fuels</i> , 2020 , 34, 14958-14967	4.1	8
24	Microporous Spheres of Tiny Semiconducting Graphene Sheets from Hypercross-linked Polymers: Absorption and CO ₂ Sorption Characteristics. <i>Advances in Polymer Technology</i> , 2018 , 37, 714-723	1.9	5
23	Facile synthesis of highly efficient V ₂ O ₅ @NiCo ₂ O ₄ as battery-type electrode material for high-performance electrochemical supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13519-13524	2.1	5
22	Hypercross-linked lignite for NO _x and CO ₂ sorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 23, 194-199	6.3	5
21	Fabrication, characterization and invitro bioactivity evaluation of QPSU/TiO ₂ composite membranes. <i>Journal of Polymer Research</i> , 2011 , 18, 1469-1477	2.7	5

20	Sustainable Synthesis of Silver Nanoparticles Using Marine Algae for Catalytic Degradation of Methylene Blue. <i>Catalysts</i> , 2021 , 11, 1377	4	4
19	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 975-982	2.1	4
18	Synthetic disposable material derived-carbon supported NiO: Efficient hybrid electrocatalyst for water oxidation process. <i>Fuel</i> , 2021 , 294, 120558	7.1	4
17	Novel porous carbon electrode derived from hypercross-linked polymer of poly(divinylbenzene-co-vinyl benzyl chloride) for supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 43, 103287	7.8	4
16	Polyaniline/3X zeolite composite-supported platinum electrocatalysts for direct methanol fuel cell applications. <i>Polymer International</i> , 2019 , 68, 929-935	3.3	3
15	Efficient utilization of anion exchange composites using silica filler for low temperature alkaline membrane fuel cells. <i>International Journal of Plastics Technology</i> , 2013 , 17, 35-50	2.7	3
14	Facile synthesis of nitrogen-doped porous carbon materials using waste biomass for energy storage applications.. <i>Chemosphere</i> , 2021 , 289, 133225	8.4	3
13	Highly Fluorescent Carbon Dots as a Potential Fluorescence Probe for Selective Sensing of Ferric Ions in Aqueous Solution. <i>Chemosensors</i> , 2021 , 9, 301	4	3
12	Preparation and characterization of RGO-incorporated hypercross-linked polymers for CO2 capture. <i>Carbon Letters</i> , 2019 , 29, 21-30	2.3	2
11	A simple and reproducible estimation of tolterodine tartrate by ion-pair extractive colorimetric method using methyl orange as chromogen. <i>Journal of Pharmacy Research</i> , 2013 , 7, 367-373		2
10	Effect of Zr and Li on high temperature CO2 sorption characteristics of CaO. <i>Adsorption</i> , 2017 , 23, 1033-1039	10.9	2
9	Synthesis and Characterization of 1-octyl 2-cyano Acrylate for Wound Healing Applications. <i>International Journal of Bio-Science and Bio-Technology</i> , 2016 , 8, 339-350	0.1	2
8	Caprolactam Synthesis using Ce-MCM-41 Catalysts. <i>International Journal of Bio-Science and Bio-Technology</i> , 2016 , 8, 171-182	0.1	2
7	Morus nigra-derived hydrophilic carbon dots for the highly selective and sensitive detection of ferric ion in aqueous media and human colon cancer cell imaging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 635, 128073	5.1	2
6	Constrained growth of solid amino alkyl siloxane (an organic/inorganic hybrid): The ultimate selective sorbent for CO2. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 65, 156-166	6.3	1
5	Comparative study of composite membranes from nano-metal-oxide-incorporated polymer electrolytes for direct methanol alkaline membrane fuel cells. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	1
4	Fabrication of High-Performance Asymmetric Supercapacitor Consists of Nickel Oxide and Activated Carbon (NiO//AC). <i>Catalysts</i> , 2022 , 12, 375	4	1
3	Aesculus turbinata biomass-originated nanoporous carbon for energy storage applications. <i>Materials Letters</i> , 2022 , 309, 131445	3.3	0

- 2 Bentonite clay incorporated 3-aminopropyl triethoxy silane composite (bentonite/APTES) for CO₂ adsorption. *Materials Letters*, **2021**, 294, 129811 3.3
- 1 Facile synthesis of molybdenum disulfide adorned heteroatom-doped porous carbon for energy storage applications. *Journal of Nanostructure in Chemistry*,1 7.6