

Sangaraju Shanmugam

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#	Paper	IF	Citations
137	Hierarchical NiCo ₂ S ₄ Nanowire Arrays Supported on Ni Foam: An Efficient and Durable Bifunctional Electrocatalyst for Oxygen and Hydrogen Evolution Reactions. <i>Advanced Functional Materials</i> , 2016 , 26, 4661-4672	15.6	943
136	Cobalt Sulfide Nanoparticles Grown on Nitrogen and Sulfur Codoped Graphene Oxide: An Efficient Electrocatalyst for Oxygen Reduction and Evolution Reactions. <i>ACS Catalysis</i> , 2015 , 5, 3625-3637	13.1	506
135	Hierarchical nanostructured NiCo ₂ O ₄ as an efficient bifunctional non-precious metal catalyst for rechargeable zinc-air batteries. <i>Nanoscale</i> , 2014 , 6, 3173-81	7.7	306
134	Electrospun Carbon Nanofibers Encapsulated with NiCoP: A Multifunctional Electrode for Supercapattery and Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution Reactions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800555	21.8	185
133	Nickel selenide supported on nickel foam as an efficient and durable non-precious electrocatalyst for the alkaline water electrolysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 485-493	21.8	165
132	Synthesis and Characterization of TiO ₂ @C Core/Shell Composite Nanoparticles and Evaluation of Their Photocatalytic Activities. <i>Chemistry of Materials</i> , 2006 , 18, 2275-2282	9.6	155
131	Pulsed sonoelectrochemical synthesis of size-controlled copper nanoparticles stabilized by poly(N-vinylpyrrolidone). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16947-52	3.4	152
130	CoMn ₂ O ₄ nanoparticles anchored on nitrogen-doped graphene nanosheets as bifunctional electrocatalyst for rechargeable zinc-air battery. <i>Electrochemistry Communications</i> , 2014 , 41, 59-63	5.1	146
129	Efficient electrocatalytic oxygen reduction over metal free-nitrogen doped carbon nanocapsules. <i>Chemical Communications</i> , 2011 , 47, 4463-5	5.8	146
128	Polyoxometalate-reduced graphene oxide hybrid catalyst: synthesis, structure, and electrochemical properties. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12197-204	9.5	142
127	Inexpensive electrochemical synthesis of nickel iron sulphides on nickel foam: super active and ultra-durable electrocatalysts for alkaline electrolyte membrane water electrolysis. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16394-16402	13	130
126	Effect of surface charge of magnetite nanoparticles on their internalization into breast cancer and umbilical vein endothelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 71, 325-30	6	119
125	A polyoxometalate coupled graphene oxide/Nafion composite membrane for fuel cells operating at low relative humidity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8148-8155	13	114
124	Zinc-air battery: understanding the structure and morphology changes of graphene-supported CoMn ₂ O ₄ bifunctional catalysts under practical rechargeable conditions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16545-55	9.5	111
123	Surface Activation and Reconstruction of Non-Oxide-Based Catalysts Through in Situ Electrochemical Tuning for Oxygen Evolution Reactions in Alkaline Media. <i>ACS Catalysis</i> , 2020 , 10, 463-493	13.1	110
122	LaTi _{0.65} Fe _{0.35} O ₃ nanoparticle-decorated nitrogen-doped carbon nanorods as an advanced hierarchical air electrode for rechargeable metal-air batteries. <i>Nano Energy</i> , 2015 , 15, 92-103	17.1	107
121	Carbon-coated anatase TiO ₂ nanocomposite as a high-performance electrocatalyst support. <i>Small</i> , 2007 , 3, 1189-93	11	103

120	Sulfonated Graphene-Nafion Composite Membranes for Polymer Electrolyte Fuel Cells Operating under Reduced Relative Humidity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15855-15866	3.8	92
119	A Stable Graphitic, Nanocarbon-Encapsulated, Cobalt-Rich Core-Shell Electrocatalyst as an Oxygen Electrode in a Water Electrolyzer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702838	21.8	89
118	Porous LaCo _{1-x} Ni _x O ₃ -N Nanostructures as an Efficient Electrocatalyst for Water Oxidation and for a Zinc-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6019-31	9.5	85
117	Facile synthesis of porous metal oxide nanotubes and modified nafion composite membranes for polymer electrolyte fuel cells operated under low relative humidity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16734-44	9.5	85
116	Hollow nitrogen-doped carbon spheres as efficient and durable electrocatalysts for oxygen reduction. <i>Chemical Communications</i> , 2014 , 50, 9473-6	5.8	82
115	Preparation and characterization of palladium-nickel on graphene oxide support as anode catalyst for alkaline direct ethanol fuel cell. <i>Applied Catalysis A: General</i> , 2017 , 531, 29-35	5.1	81
114	A novel single step chemical route for noble metal nanoparticles embedded organic/inorganic composite films. <i>Materials Chemistry and Physics</i> , 2006 , 95, 51-55	4.4	78
113	A synergistic effect of Co and CeO ₂ in nitrogen-doped carbon nanostructure for the enhanced oxygen electrode activity and stability. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1148-1159	21.8	75
112	Recent advances in methods and technologies for enhancing bubble detachment during electrochemical water splitting. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109300	16.2	74
111	Synthesis of sulfonated poly(arylene ether ketone) block copolymers for proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2016 , 507, 135-142	9.6	72
110	Generation of hydrophilic, bamboo-shaped multiwalled carbon nanotubes by solid-state pyrolysis and its electrochemical studies. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2037-44	3.4	69
109	Electrodeposited Ni Co P hierarchical nanostructure as a cost-effective and durable electrocatalyst with superior activity for bifunctional water splitting. <i>Journal of Power Sources</i> , 2019 , 429, 156-167	8.9	66
108	Electrochemical biosensor for the selective determination of hydrogen peroxide based on the co-deposition of palladium, horseradish peroxidase on functionalized-graphene modified graphite electrode as composite. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 689, 233-242	4.1	66
107	Solid state synthesis of tungsten carbide nanorods and nanoplatelets by a single-step pyrolysis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19056-9	3.4	64
106	MnO octahedral nanocrystals and MnO@C core-shell composites: synthesis, characterization, and electrocatalytic properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 24486-91	3.4	64
105	Zirconium oxide nanotube-Nafion composite as high performance membrane for all vanadium redox flow battery. <i>Journal of Power Sources</i> , 2017 , 337, 36-44	8.9	63
104	Single-step synthetic approach for boron-doped carbons as a non-precious catalyst for oxygen reduction in alkaline medium. <i>Electrochemistry Communications</i> , 2012 , 25, 101-104	5.1	63
103	Nafion-sulfonated silica composite membrane for proton exchange membrane fuel cells under operating low humidity condition. <i>Journal of Membrane Science</i> , 2019 , 583, 103-109	9.6	59

102	High pressure pyrolyzed non-precious metal oxygen reduction catalysts for alkaline polymer electrolyte membrane fuel cells. <i>Nanoscale</i> , 2015 , 7, 7644-50	7.7	58
101	Efficient water management of composite membranes operated in polymer electrolyte membrane fuel cells under low relative humidity. <i>Journal of Membrane Science</i> , 2015 , 493, 285-298	9.6	57
100	Esterification by solid acid catalysts—comparison. <i>Journal of Molecular Catalysis A</i> , 2004 , 223, 143-147		57
99	Graphene supported PtNi nanoparticles for oxygen reduction reaction in acidic electrolyte. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 12983-12994	6.7	55
98	Synthesis and Electrochemical Oxygen Reduction of Platinum Nanoparticles Supported on Mesoporous TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18707-18712	3.8	55
97	Ultra-high proton/vanadium selectivity of a modified sulfonated poly(arylene ether ketone) composite membrane for all vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16663-16671	13	54
96	Synthesis and characterization of silicotungstic acid based organic/inorganic nanocomposite membrane. <i>Journal of Membrane Science</i> , 2006 , 275, 105-109	9.6	54
95	Porous zirconium oxide nanotube modified Nafion composite membrane for polymer electrolyte membrane fuel cells operated under dry conditions. <i>Journal of Membrane Science</i> , 2015 , 488, 154-165	9.6	53
94	Three-dimensional hierarchical nitrogen-doped arch and hollow nanocarbons: morphological influences on supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16242-16250	13	51
93	Nanostructured Nickel-Cobalt-Titanium Alloy Grown on Titanium Substrate as Efficient Electrocatalyst for Alkaline Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12416-12426	9.5	50
92	Electrodeposition of Ni-Co-Fe mixed sulfide ultrathin nanosheets on Ni nanocones: a low-cost, durable and high performance catalyst for electrochemical water splitting. <i>Nanoscale</i> , 2019 , 11, 16621-16634	7.7	50
91	Investigation of hollow nitrogen-doped carbon spheres as non-precious FeNi ₄ based oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15473-15481	13	49
90	Electrochemical Performance of Carbon Nanorods with Embedded Cobalt Metal Nanoparticles as an Electrode Material for Electrochemical Capacitors. <i>Electrochimica Acta</i> , 2014 , 125, 232-240	6.7	47
89	Chrysanthemum flower-like NiCoO-nitrogen doped graphene oxide composite: an efficient electrocatalyst for lithium-oxygen and zinc-air batteries. <i>Chemical Communications</i> , 2017 , 53, 7836-7839	5.8	46
88	Sulfonated graphene oxide-decorated block copolymer as a proton-exchange membrane: improving the ion selectivity for all-vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17740-17750	13	46
87	Electrochemical properties of bamboo-shaped multiwalled carbon nanotubes generated by solid state pyrolysis. <i>Electrochemistry Communications</i> , 2006 , 8, 1099-1105	5.1	46
86	Cobalt and nitrogen co-doped hierarchically porous carbon nanostructure: a bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24078-24085	13	46
85	Nitrogen-Doped Porous Multi-Nano-Channel Nanocarbons for Use in High-Performance Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2439-2448	8.3	45

84	Nitrogen-doped Multi-walled Carbon Nanotubes-MnCo ₂ O ₄ microsphere as electrocatalyst for efficient oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15199-15207	6.7	44
83	Decoration of Micro-/Nanoscale Noble Metal Particles on 3D Porous Nickel Using Electrodeposition Technique as Electrocatalyst for Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15716-25	9.5	43
82	Metal phosphide nanoparticles embedded in carbon as efficient electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 297, 749-754	6.7	43
81	Boron and phosphorous-doped graphene as a metal-free electrocatalyst for the oxygen reduction reaction in alkaline medium. <i>RSC Advances</i> , 2015 , 5, 53637-53643	3.7	41
80	Pulsed sonoelectrochemical synthesis of polyaniline nanoparticles and their capacitance properties. <i>Synthetic Metals</i> , 2008 , 158, 848-853	3.6	40
79	Interweaved Nickel Phosphide Sponge as an Electrode for Flexible Supercapattery and Water Splitting Applications. <i>ACS Applied Energy Materials</i> , 2018 , 1, 78-92	6.1	37
78	Preparation and characterization of nickel-cobalt alloy nanostructures array fabricated by electrodeposition. <i>CrystEngComm</i> , 2014 , 16, 6937	3.3	37
77	A sulfonated poly(arylene ether ketone)/polyoxometalate-graphene oxide composite: a highly ion selective membrane for all vanadium redox flow batteries. <i>Chemical Communications</i> , 2017 , 53, 917-920	5.8	36
76	Phosphorus Doped MoS ₂ Nanosheet Promoted with Nitrogen, Sulfur Dual Doped Reduced Graphene Oxide as an Effective Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6184-6194	6.1	36
75	Hierarchical Nickel-Cobalt Dichalcogenide Nanostructure as an Efficient Electrocatalyst for Oxygen Evolution Reaction and a Zn-Air Battery. <i>ACS Omega</i> , 2018 , 3, 8621-8630	3.9	35
74	High performance catalyst for electrochemical hydrogen evolution reaction based on SiO ₂ /WO ₃ nanofacets. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9732-9740	6.7	34
73	Hierarchical Nanostructured Pt ₈ Ti-TiO ₂ /C as an Efficient and Durable Anode Catalyst for Direct Methanol Fuel Cells. <i>ACS Catalysis</i> , 2015 , 5, 7321-7327	13.1	34
72	Rapid synthesis in ionic liquids of room-temperature-conducting solid microsilica spheres. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6560-3	16.4	34
71	Nitrogen-doped carbon nanofoam derived from amino acid chelate complex for supercapacitor applications. <i>Journal of Power Sources</i> , 2016 , 316, 60-71	8.9	33
70	Nafion-porous cerium oxide nanotubes composite membrane for polymer electrolyte fuel cells operated under dry conditions. <i>Journal of Power Sources</i> , 2016 , 329, 441-449	8.9	33
69	The synergistic effect of nickel cobalt sulfide nanoflakes and sulfur-doped porous carbonaceous nanostructure as bifunctional electrocatalyst for enhanced rechargeable Li-O ₂ batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118283	21.8	33
68	Fabrication of SPAEK-cerium zirconium oxide nanotube composite membrane with outstanding performance and durability for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20205-20213	13	33
67	Catalytic activity of Pt anchored onto graphite nanofiber-poly (3,4-ethylenedioxythiophene) composite toward oxygen reduction reaction in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2013 , 108, 95-103	6.7	32

66	Polyaniline and carbon nanotube coated pineapple-polyester blended fabric composites as electrodes for supercapacitors. <i>Synthetic Metals</i> , 2017 , 230, 65-72	3.6	31
65	The influence of Co ₃ V ₂ O ₈ morphology on the oxygen evolution reaction activity and stability. <i>Electrochemistry Communications</i> , 2016 , 63, 44-47	5.1	30
64	Photochemically reduced polyoxometalate assisted generation of silver and gold nanoparticles in composite films: a single step route. <i>Nanoscale Research Letters</i> , 2007 , 2, 175-183	5	30
63	CoS ₂ /TiO ₂ hybrid nanostructures: efficient and durable bifunctional electrocatalysts for alkaline electrolyte membrane water electrolyzers. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1075-1085	13	30
62	Development of a simple bioelectrode for the electrochemical detection of hydrogen peroxide using <i>Pichia pastoris</i> catalase immobilized on gold nanoparticle nanotubes and polythiophene hybrid. <i>Analyst, The</i> , 2014 , 139, 5800-12	5	29
61	Synthesis of copper dendrite nanostructures by a sonoelectrochemical method. <i>Chemistry - A European Journal</i> , 2008 , 14, 4696-703	4.8	29
60	Pulse Electrodeposition of a Superhydrophilic and Binder-Free Ni-Fe-P Nanostructure as Highly Active and Durable Electrocatalyst for Both Hydrogen and Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	29
59	Synthesis of one-dimensional gold nanostructures and the electrochemical application of the nanohybrid containing functionalized graphene oxide for cholesterol biosensing. <i>Bioelectrochemistry</i> , 2016 , 110, 79-90	5.6	29
58	Mesoporous Co-CoO/N-CNR nanostructures as high-performance air cathode for lithium-oxygen batteries. <i>Journal of Power Sources</i> , 2017 , 354, 48-56	8.9	27
57	Nitrogen and Sulfur Co-doped Graphene Supported Cobalt Sulfide Nanoparticles as an Efficient Air Cathode for Zinc-air Battery. <i>Electrochimica Acta</i> , 2015 , 183, 63-69	6.7	27
56	Polyoxometalate decorated graphene oxide/sulfonated poly(arylene ether ketone) block copolymer composite membrane for proton exchange membrane fuel cell operating under low relative humidity. <i>Journal of Membrane Science</i> , 2017 , 541, 386-392	9.6	26
55	Sonochemical Formation of Ga-Pt Intermetallic Nanoparticles Embedded in Graphene and its Potential Use as an Electrocatalyst. <i>Electrochimica Acta</i> , 2016 , 190, 659-667	6.7	24
54	Ultrahigh Ion-Selective and Durable Nafion-NdZr Composite Layer Membranes for All-Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1998-2007	8.3	24
53	Amperometric hydrogen peroxide and cholesterol biosensors designed by using hierarchical curtailed silver flowers functionalized graphene and enzymes deposits. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 685-701	2.6	23
52	Prussian Blue-Carbon Hybrid as a Non-Precious Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Medium. <i>Electrochimica Acta</i> , 2014 , 119, 92-98	6.7	23
51	Hybrid metal-CuS nanostructures as efficient co-catalysts for photocatalytic hydrogen generation. <i>Chemical Communications</i> , 2017 , 53, 3277-3280	5.8	22
50	Modified sulfonated Poly(arylene ether) multiblock copolymers containing highly sulfonated blocks for polymer electrolyte membrane fuel cells. <i>Journal of Membrane Science</i> , 2017 , 542, 102-109	9.6	22
49	Bifunctional Electrocatalysts: Hierarchical NiCo ₂ S ₄ Nanowire Arrays Supported on Ni Foam: An Efficient and Durable Bifunctional Electrocatalyst for Oxygen and Hydrogen Evolution Reactions (Adv. Funct. Mater. 26/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 4660-4660	15.6	21

48	Nanostructured core-shell cobalt chalcogenides for efficient water oxidation in alkaline electrolyte. <i>Electrochimica Acta</i> , 2019 , 312, 234-241	6.7	18
47	Enhanced Oxygen Reduction Activities of Pt Supported on Nitrogen-Doped Carbon Nanocapsules. <i>Electrochimica Acta</i> , 2014 , 137, 41-48	6.7	18
46	Biomass-mediated ZSM-5 zeolite synthesis: when self-assembly allows to cross the Si/Al lower limit. <i>Chemical Science</i> , 2018 , 9, 6532-6539	9.4	18
45	Ni ₂ P ₂ O ₇ microsheets as efficient Bi-functional electrocatalysts for water splitting application. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2435-2446	5.8	17
44	Hierarchical oxygen rich-carbon nanorods: Efficient and durable electrode for all-vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2020 , 445, 227329	8.9	16
43	Nitrogen-doped arch and hollow shaped nanocarbons for CO ₂ adsorption. <i>RSC Advances</i> , 2014 , 4, 59633-59636	5.9	14
42	Physiochemical properties of combustion synthesized La _{0.6} Sr _{0.4} Co _{0.8} Fe _{0.2} O ₃ perovskite: A role of fuel to oxidant ratio. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 855-860	4.3	13
41	Graphitic Carbon-NiCo Nanostructures as Efficient Non-Precious-Metal Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 1937-1943	4.3	13
40	Correlation between the structural, electrical and electrochemical performance of layered Li(Ni _{0.33} Co _{0.33} Mn _{0.33})O ₂ for lithium ion battery. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1865-1876	2.6	13
39	Electrochemical deposition of Fe ₃ O ₄ nanoparticles and flower-like hierarchical porous nanoflakes on 3D Cu-cone arrays for rechargeable lithium battery anodes. <i>Materials and Design</i> , 2017 , 121, 321-334	8.1	12
38	Easy Single-Step Route to Manganese Oxide Nanoparticles Embedded in Carbon and Their Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15752-15758	3.8	12
37	Pd nanoparticles deposited on Co(OH) nanoplatelets as a bifunctional electrocatalyst and their application in Zn-air and Li-O batteries. <i>Nanoscale</i> , 2020 , 12, 17858-17869	7.7	12
36	Strong catalyst support interactions in defect-rich EMo ₂ N nanoparticles loaded 2D-h-BN hybrid for highly selective nitrogen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 287, 119952	21.8	12
35	Dual Heteroatom-Doped Carbon Nanofoam-Wrapped Iron Monosulfide Nanoparticles: An Efficient Cathode Catalyst for Li-O Batteries. <i>ChemSusChem</i> , 2017 , 10, 1554-1562	8.3	11
34	Flexible quasi-solid-state lithium-ion capacitors employing amorphous SiO ₂ nanospheres encapsulated in nitrogen-doped carbon shell as a high energy anode. <i>Journal of Power Sources</i> , 2021 , 484, 229143	8.9	11
33	Pyrochlore Zirconium Gadolinium Oxide Nanorods Composite Membrane for Suppressing the Formation of Free Radical in PEM Fuel Cell Operating Under Dry Condition. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16889-16899	8.3	10
32	Hydrazine-assisted electrochemical hydrogen production by efficient and self-supported electrodeposited Ni-Cu-P@Ni-Cu nano-micro dendrite catalyst. <i>Electrochimica Acta</i> , 2021 , 382, 138335	6.7	10
31	Heterostructured Titanium Oxynitride-Manganese Cobalt Oxide Nanorods as High-Performance Electrode Materials for Supercapacitor Devices. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54524-54536	9.5	9

30	Pulse electrodeposited PtSn electrocatalyst on a PEDOT/graphene-based electrode for ethanol oxidation in an acidic medium. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19930-19938	6.7	9
29	Necrotic cell death caused by exposure to graphitic carbon-coated magnetic nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2875-87	5.4	8
28	A modified cathode catalyst layer with optimum electrode exposure for high current density and durable proton exchange membrane fuel cell operation. <i>Journal of Power Sources</i> , 2021 , 496, 229816	8.9	8
27	Controlled Synthesis and Magnetic Properties of Iron Oxide Nanostructures using Biogenic Polyamines. <i>ECS Transactions</i> , 2009 , 16, 189-197	1	6
26	Morphology and Magnetic Properties of Iron Oxide Nanostructures Synthesized with Biogenic Polyamines. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K121	3.9	6
25	Preparation of noble metal supported carbon electrodes using photochemically reduced heteropolyanions in composite films. <i>Journal of Molecular Catalysis A</i> , 2005 , 241, 52-58		6
24	Rapid Synthesis in Ionic Liquids of Room-Temperature-Conducting Solid Microsilica Spheres. <i>Angewandte Chemie</i> , 2005 , 117, 6718-6721	3.6	6
23	A novel bioassay based gold nanoribbon biosensor to aid the preclinical evaluation of anticancer properties. <i>RSC Advances</i> , 2016 , 6, 60693-60703	3.7	5
22	The identification of specific N-configuration responsible for Li-ion storage in N-doped porous carbon nanofibers: An ex-situ study. <i>Journal of Power Sources</i> , 2021 , 483, 229174	8.9	5
21	Rheo discolor leaf extract as a novel immobilizing matrix for the fabrication of an electrochemical glucose and hydrogen peroxide biosensor. <i>Analytical Methods</i> , 2014 , 6, 863-877	3.2	4
20	An easy single-step synthesis of platinum nanoparticles embedded in carbon. <i>Chemistry - A European Journal</i> , 2008 , 14, 8776-9	4.8	4
19	An easy single step route to synthesize open-ended carbon nanotubes. <i>Carbon</i> , 2008 , 46, 1615-1619	10.4	4
18	The Influence of Porous Co/CeO-Nitrogen-Doped Carbon Nanorods on the Specific Capacity of Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17699-17706	9.5	4
17	Water Electrolysis: A Stable Graphitic, Nanocarbon-Encapsulated, Cobalt-Rich Core-Shell Electrocatalyst as an Oxygen Electrode in a Water Electrolyzer (Adv. Energy Mater. 14/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870065	21.8	4
16	Photothermal cancer therapy using graphitic carbon-coated magnetic particles prepared by one-pot synthesis. <i>International Journal of Nanomedicine</i> , 2015 , 10, 271-82	7.3	3
15	RuFe Alloy Nanoparticle-Supported Mesoporous Carbon: Efficient Bifunctional Catalyst for Li-O ₂ and Zn-Air Batteries. <i>ACS Catalysis</i> , 2022 , 12, 1718-1731	13.1	3
14	Composite polymer electrolyte membrane decorated with porous titanium oxide nanotubes for fuel cell operating under low relative humidity. <i>Electrochimica Acta</i> , 2021 , 384, 138407	6.7	3
13	Highly Active and Durable Transition Metal-Coordinated Nitrogen Doped Carbon Electrocatalyst for Oxygen Reduction Reaction in Neutral Media. <i>E3S Web of Conferences</i> , 2020 , 141, 01005	0.5	2

12	The preparation of metal oxygen molecular cluster embedded organic/inorganic nanocomposite and its rectification behaviour. <i>Materials Chemistry and Physics</i> , 2008 , 112, 863-868	4.4	2
11	Polyoxometalate based soft chemical route for preparation of Pt nanorods and self-assemblies. <i>Bulletin of Materials Science</i> , 2005 , 28, 629-633	1.7	2
10	Ultrahigh Proton/Vanadium Selective and Durable Nafion/TiZrO ₄ Composite Membrane for High-Performance All-Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11041-11051	8.3	2
9	Ti ₂ Zr ₂ O ₈ nanotube as an additive in the fuel cell membrane and catalyst layer for improved low humidity operation. <i>Journal of Power Sources</i> , 2021 , 509, 230386	8.9	2
8	Active material crossover suppression with bi-ionic transportability by an amphoteric membrane for Zinc/Bromine redox flow battery. <i>Journal of Power Sources</i> , 2022 , 540, 231637	8.9	2
7	Accelerated N ₂ reduction kinetics in hybrid interfaces of NbTiO ₄ and nitrogen-doped carbon nanorod via synergistic electronic coupling effect. <i>Applied Catalysis B: Environmental</i> , 2021 , 120938	21.8	1
6	Degradation-Mitigating Composite Membrane That Exceeds a 1 W cm ⁻² Power Density of a Polymer Electrolyte Membrane Fuel Cell Operating Under Dry Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2693-2704	8.3	1
5	Highly Active and Durable NiCoSeP Nanostructured Electrocatalyst for Large-Current-Density Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2937-2948	6.1	1
4	Binder-free P-doped Ni-Se nanostructure electrode toward highly active and stable hydrogen production in wide pH range and seawater. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 916, 116379	4.1	1
3	Nickel nanoparticles wrapped in N-doped carbon nanostructures for efficient electrochemical reduction of NO to NH ₃ . <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6470-6474	13	0
2	Nanocarbons and Their Composite Materials as Electrocatalyst for Metal/Air Battery and Water Splitting. <i>Nanostructure Science and Technology</i> , 2019 , 455-496	0.9	
1	High-Performance Cobalt/Tungsten All-Heteropolyacid Redox Flow Battery with a TiZrO ₄ -Decorated Advanced Nafion Composite Membrane. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2115-2129	6.1	29