

Gopinathan M Anilkumar

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Large Cage Face-Centered-Cubic Fm $\bar{3}m$ Mesoporous Silica: Synthesis and Structure. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14296-14300.	2.6	296
2	Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29373-29382.	8.0	139
3	Transformation of highly ordered large pore silica mesophases (Fm $\bar{3}m$, Im $\bar{3}m$ and p6mm) in a ternary triblock copolymer-butanol-water system. <i>Chemical Communications</i> , 2004, , 1536-1537.	4.1	109
4	One-Dimensional Assembly of Conductive and Capacitive Metal Oxide Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10730-10742.	8.0	88
5	Cobalt-Modified Palladium Bimetallic Catalyst: A Multifunctional Electrocatalyst with Enhanced Efficiency and Stability toward the Oxidation of Ethanol and Formate in Alkaline Medium. <i>ACS Applied Energy Materials</i> , 2018, 1, 4140-4149.	5.1	67
6	Proton conducting phosphated zirconia-sulfonated polyether sulfone nanohybrid electrolyte for low humidity, wide-temperature PEMFC operation. <i>Electrochemistry Communications</i> , 2006, 8, 133-136.	4.7	55
7	Void Space Control in Porous Carbon for High-Density Supercapacitive Charge Storage. <i>Energy & Fuels</i> , 2020, 34, 5072-5083.	5.1	52
8	Morphology control of hierarchical porous carbon particles from phenolic resin and polystyrene latex template via aerosol process. <i>Carbon</i> , 2015, 84, 281-289.	10.3	47
9	Nanostructured design of electrocatalyst support materials for high-performance PEM fuel cell application. <i>Journal of Power Sources</i> , 2012, 203, 26-33.	7.8	39
10	Self-Organized Macroporous Carbon Structure Derived from Phenolic Resin via Spray Pyrolysis for High-Performance Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11944-11950.	8.0	38
11	Electrospun Pt/SnO $_2$ nanofibers as an excellent electrocatalysts for hydrogen oxidation reaction with ORR-blocking characteristic. <i>Catalysis Communications</i> , 2013, 33, 11-14.	3.3	33
12	Aerosol Synthesis of Self-Organized Nanostructured Hollow and Porous Carbon Particles Using a Dual Polymer System. <i>Langmuir</i> , 2014, 30, 11257-11262.	3.5	33
13	Ultrahigh oxygen reduction activity of Pt/nitrogen-doped porous carbon microspheres prepared via spray-drying. <i>Journal of Power Sources</i> , 2013, 229, 58-64.	7.8	31
14	Binary Pd-Ni Nanoalloy Particles over Carbon Support with Superior Alkaline Formate Fuel Electrooxidation Performance. <i>ChemCatChem</i> , 2019, 11, 4731-4737.	3.7	29
15	Anisotropically Organized LDH on PVDF: A Geometrically Templated Electrospun Substrate for Advanced Anion Conducting Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6397-6401.	8.0	28
16	Electro-oxidation competency of palladium nanocatalysts over ceria-carbon composite supports during alkaline ethylene glycol oxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 493-501.	4.1	28
17	Mg-Al layered double hydroxides containing glycine betaine as low humidity-dependent anion conducting electrolyte material for Solid State Alkaline Fuel Cell (SAFC). <i>Journal of Power Sources</i> , 2013, 230, 225-229.	7.8	26
18	Influence of nanoparticle seeding on the phase formation kinetics of sol-gel-derived Sr $_{0.7}$ Bi $_{2.4}$ Ta $_2$ O $_9$ thin films. <i>Journal of Materials Research</i> , 2003, 18, 387-395.	2.6	23

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19	Mg-Al layered double hydroxides: a correlation between synthesis-structure and ionic conductivity. RSC Advances, 2014, 4, 41051-41058.	3.6	22
20	Morphology-dependent electrocatalytic activity of nanostructured Pt/C particles from hybrid aerosol-colloid process. AIChE Journal, 2016, 62, 440-450.	3.6	21
21	Tuning Palladium Nickel Phosphide toward Efficient Oxygen Evolution Performance. ACS Applied Energy Materials, 2020, 3, 879-888.	5.1	21
22	Zn ²⁺ substitution effects in layered double hydroxide (Mg _(1-x) Zn _x) ₂ Al: textural properties, water content and ionic conductivity. Journal of Materials Chemistry A, 2013, 1, 13348.	10.3	20
23	Melamine formaldehyde-metal organic gel interpenetrating polymer network derived intrinsic Fe-N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. New Journal of Chemistry, 2018, 42, 18690-18701.	2.8	19
24	Direct synthesis of a carbon nanotube interpenetrated doped porous carbon alloy as a durable Pt-free electrocatalyst for the oxygen reduction reaction in an alkaline medium. Sustainable Energy and Fuels, 2017, 1, 1524-1532.	4.9	16
25	Energy-Efficient Templating Method for the Industrial Production of Porous Carbon Particles by a Spray Pyrolysis Process Using Poly(methyl methacrylate). Industrial & Engineering Chemistry Research, 2018, 57, 11335-11341.	3.7	16
26	An enhanced electrochemical CO ₂ reduction reaction on the SnO _x -PdO surface of SnPd nanoparticles decorated on N-doped carbon fibers. Catalysis Science and Technology, 2021, 11, 143-151.	4.1	16
27	Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. New Journal of Chemistry, 2020, 44, 12343-12354.	2.8	15
28	Void-size-matched hierarchical 3D titania flowers in porous carbon as an electrode for high-density supercapacitive charge storage. Journal of Alloys and Compounds, 2021, 858, 157649.	5.5	14
29	Chitosan Intercalated Metal Organic Gel as a Green Precursor of Fe Entrenched and Fe Distributed N-Doped Mesoporous Graphitic Carbon for Oxygen Reduction Reaction. ChemistrySelect, 2017, 2, 8762-8770.	1.5	12
30	Formation of nanoporous and nanocrystalline anatase films by pyrolysis of PEO-TiO ₂ hybrid films. Journal of Crystal Growth, 2006, 286, 173-177.	1.5	10
31	In situ growth of Pt nanoparticles on electrospun SnO ₂ fibers for anode electrocatalyst application. Materials Letters, 2013, 105, 202-205.	2.6	9
32	Morphological Ensembles of N-Doped Porous Carbon Derived from ZIF-8/Fe-Graphene Nanocomposites: Processing and Electrocatalytic Studies. ChemistrySelect, 2018, 3, 8688-8697.	1.5	8
33	Dual Hybrid Energy Storage Device with a Battery-Electrochemical Capacitor Hybrid Cathode and a Battery-Type Anode. Energy & Fuels, 2021, 35, 13438-13448.	5.1	5