

# Veeramani Vedyappan

## List of Publications by Year in descending order

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46  
papers

2,477  
citations

159585

30  
h-index

223800

46  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Transport Analysis in a Polymer Electrolyte Electrolysis Cell Comprised of Gas/Liquid Separating Interdigitated Flow Fields. <i>Electrochemistry</i> , 2022, 90, 017002-017002.	1.4	3
2	One-Step Synthesis of Carbon-Protected Co <sub>3</sub> O <sub>4</sub> Nanoparticles toward Long-Term Water Oxidation in Acidic Media. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100086.	5.8	6
3	Nanolayers of carbon protected copper oxide nanocomposite for high performance energy storage and non-enzymatic glucose sensor. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160063.	5.5	15
4	Decoration of silver nanoparticles on nitrogen-doped nanoporous carbon derived from zeolitic imidazole framework-8 (ZIF-8) via in situ auto-reduction. <i>RSC Advances</i> , 2021, 11, 6614-6619.	3.6	4
5	Phosphorous-doped molybdenum disulfide anchored on silicon as an efficient catalyst for photoelectrochemical hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118259.	20.2	40
6	Ionic conductivity of protonated layered titanate nano-powder compact in water. <i>Nano Select</i> , 2020, 1, 346-352.	3.7	2
7	Nitrogen and high oxygen-containing metal-free porous carbon nanosheets for supercapacitor and oxygen reduction reaction applications. <i>Nano Express</i> , 2020, 1, 010036.	2.4	8
8	Porous carbon-NiO nanocomposites for amperometric detection of hydrazine and hydrogen peroxide. <i>Mikrochimica Acta</i> , 2019, 186, 59.	5.0	33
9	Highly Sensitive Detection of Gallic Acid in Food Samples by Using Robust NiAl <sub>2</sub> O <sub>4</sub> Nanocomposite Materials. <i>Journal of the Electrochemical Society</i> , 2019, 166, B29-B34.	2.9	18
10	Metal organic framework derived nickel phosphide/graphitic carbon hybrid for electrochemical hydrogen generation reaction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 634-638.	5.3	27
11	Quantum dots for light conversion, therapeutic and energy storage applications. <i>Journal of Solid State Chemistry</i> , 2019, 270, 71-84.	2.9	16
12	Highly Efficient Photoelectrochemical Hydrogen Generation Reaction Using Tungsten Phosphosulfide Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17280-17286.	8.0	19
13	Vertically-aligned graphene nanowalls grown via plasma-enhanced chemical vapor deposition as a binder-free cathode in Li-O <sub>2</sub> batteries. <i>Nanotechnology</i> , 2018, 29, 505401.	2.6	8
14	CdSe/ZnS QD@CNT nanocomposite photocathode for improvement on charge overpotential in photoelectrochemical Li-O <sub>2</sub> batteries. <i>Chemical Engineering Journal</i> , 2018, 349, 235-240.	12.7	38
15	In situ electrochemical synthesis of reduced graphene oxide-cobalt oxide nanocomposite modified electrode for selective sensing of depression biomarker in the presence of ascorbic acid and dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2017, 786, 169-176.	3.8	41
16	A facile low-temperature synthesis of V <sub>2</sub> O <sub>5</sub> flakes for electrochemical detection of hydrogen peroxide sensor. <i>Ionics</i> , 2017, 23, 2193-2200.	2.4	15
17	Lignocellulosic biomass-derived, graphene sheet-like porous activated carbon for electrochemical supercapacitor and catechin sensing. <i>RSC Advances</i> , 2017, 7, 45668-45675.	3.6	95
18	NiCo <sub>2</sub> O <sub>4</sub> -decorated porous carbon nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017, 247, 288-295.	5.2	59

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19	A Facile Synthesis of Cd(OH) <sub>2</sub> •GO Nanocomposites for the Practical Electrochemical Detection of Acetaminophen. <i>Electroanalysis</i> , 2017, 29, 280-286.	2.9	15
20	A facile electrochemical synthesis strategy for Cu <sub>2</sub> O (cubes, sheets and flowers) microstructured materials for sensitive detection of 4-nitrophenol. <i>Analytical Methods</i> , 2016, 8, 5906-5910.	2.7	21
21	Functional porous carbon•ZnO nanocomposites for high-performance biosensors and energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16466-16475.	2.8	78
22	Low-Temperature Chemical Synthesis of Three-Dimensional Hierarchical Ni(OH) <sub>2</sub> -Coated Ni Microflowers for High-Performance Enzyme-Free Glucose Sensor. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25752-25759.	3.1	21
23	Flower-Like Nickel•Cobalt Oxide Decorated Dopamine-Derived Carbon Nanocomposite for High Performance Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5013-5020.	6.7	90
24	Hydrothermal synthesis of NiWO <sub>4</sub> crystals for high performance non-enzymatic glucose biosensors. <i>Scientific Reports</i> , 2016, 6, 24128.	3.3	66
25	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. <i>Scientific Reports</i> , 2016, 6, 19949.	3.3	45
26	Low-Temperature Chemical Synthesis of CoWO <sub>4</sub> Nanospheres for Sensitive Nonenzymatic Glucose Sensor. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17024-17028.	3.1	69
27	Electrochemical synthesis of Au•MnO <sub>2</sub> on electrophoretically prepared graphene nanocomposite for high performance supercapacitor and biosensor applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3304-3315.	10.3	54
28	Palladium Nanoparticle Incorporated Porous Activated Carbon: Electrochemical Detection of Toxic Metal Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1319-1326.	8.0	164
29	Immobilization of myoglobin on Au nanoparticle-decorated carbon nanotube/polytyramine composite as a mediator-free H <sub>2</sub> O <sub>2</sub> and nitrite biosensor. <i>Scientific Reports</i> , 2015, 5, 18390.	3.3	40
30	Biomass-derived functional porous carbons as novel electrode material for the practical detection of biomolecules in human serum and snail hemolymph. <i>Scientific Reports</i> , 2015, 5, 10141.	3.3	66
31	Preparation of a reduced graphene oxide/poly-L-glutathione nanocomposite for electrochemical detection of 4-aminophenol in orange juice samples. <i>Analytical Methods</i> , 2015, 7, 5627-5634.	2.7	30
32	Heteroatom-enriched porous carbon/nickel oxide nanocomposites as enzyme-free highly sensitive sensors for detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1384-1390.	7.8	60
33	Facile synthesis of MnO <sub>2</sub> /carbon nanotubes decorated with a nanocomposite of Pt nanoparticles as a new platform for the electrochemical detection of catechin in red wine and green tea samples. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6285-6292.	5.8	43
34	Solvent-free mechanochemical synthesis of graphene oxide and Fe <sub>3</sub> O <sub>4</sub> •reduced graphene oxide nanocomposites for sensitive detection of nitrite. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15529-15539.	10.3	163
35	Honeycomb-like Porous Carbon•Cobalt Oxide Nanocomposite for High-Performance Enzymeless Glucose Sensor and Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15812-15820.	8.0	216
36	Functional Porous Carbon/Nickel Oxide Nanocomposites as Binder-Free Electrodes for Supercapacitors. <i>Chemistry - A European Journal</i> , 2015, 21, 8200-8206.	3.3	48

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37	Cajeput tree bark derived activated carbon for the practical electrochemical detection of vanillin. <i>New Journal of Chemistry</i> , 2015, 39, 9109-9115.	2.8	39
38	Nickel Nanoparticle-Decorated Porous Carbons for Highly Active Catalytic Reduction of Organic Dyes and Sensitive Detection of Hg(II) Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24810-24821.	8.0	120
39	Enzymatic electrochemical glucose biosensors by mesoporous 1D hydroxyapatite-on-2D reduced graphene oxide. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1360-1370.	5.8	148
40	Electrochemical Preparation of a Reduced Graphene Oxide/Ruthenium Oxide Modified Electrode and Its Application to the Simultaneous Determination of Serotonin and Melatonin. <i>Science of Advanced Materials</i> , 2015, 7, 654-662.	0.7	15
41	Pumpkin stem-derived activated carbons as counter electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 63917-63921.	3.6	31
42	Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16015-16022.	10.3	79
43	Fabrication of a novel gold nanospheres/activated carbon nanocomposite for enhanced electrocatalytic activity toward the detection of toxic hydrazine in various water samples. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 382-387.	7.8	39
44	Direct electrochemistry of glucose oxidase and sensing glucose using a screen-printed carbon electrode modified with graphite nanosheets and zinc oxide nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1843-1850.	5.0	48
45	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 450-456.	7.8	123
46	Heteroatom-enriched and renewable banana-stem-derived porous carbon for the electrochemical determination of nitrite in various water samples. <i>Scientific Reports</i> , 2014, 4, 4679.	3.3	99