

Palaniappan Subramanian

List of Publications by Year in descending order

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63
papers

1,922
citations

257357

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265120

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63
docs citations

63
times ranked

2908
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Role of Phosphorus in Hollow Structures Cobalt-Based Phosphides as Bifunctional Catalysts for Water Splitting. <i>Small</i> , 2022, 18, e2103561.	5.2	54
2	Reduced graphene oxide-based field effect transistors for the detection of E7 protein of human papillomavirus in saliva. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 779-787.	1.9	62
3	MnOOH nanoparticles integrated nitrogen doped porous nanosheet-like carbon network as a non-noble catalyst for electro-oxidation of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9380-9393.	3.8	3
4	Thin-Layered Cactus-Like Nanostructures Wrapped Ni ₃ S ₂ Nanowires: A Robust and Potential Catalyst for Electro-oxidation of Hydrazine. <i>ChemElectroChem</i> , 2021, 8, 937-947.	1.7	7
5	Rational construction of hierarchical Ni(OH) ₂ -NiS in-plane edge hybrid nanosheet structures on the carbon cloth as a robust catalyst for electro-oxidation of urea. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159486.	2.8	17
6	Co, Fe-ions intercalated Ni(OH) ₂ network-like nanosheet arrays as highly efficient non-noble catalyst for electro-oxidation of urea. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34318-34332.	3.8	15
7	Sulfur-modified nickel selenide as an efficient electrocatalyst for the oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2021, 62, 198-203.	7.1	35
8	Co Nanoparticle-Encapsulated Nitrogen-Doped Carbon Nanotubes as an Efficient and Robust Catalyst for Electro-Oxidation of Hydrazine. <i>Nanomaterials</i> , 2021, 11, 2857.	1.9	3
9	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. <i>Talanta</i> , 2020, 209, 120511.	2.9	11
10	Pd-Decorated Tungsten as Pt-Free Bimetallic Catalysts for Hydrogen Oxidation Reaction in Alkaline Electrolyte. <i>Israel Journal of Chemistry</i> , 2020, 60, 563-569.	1.0	8
11	Electrochemical Oxidation of Glycine with Bimetallic Nickel-Manganese Oxide Catalysts. <i>ChemElectroChem</i> , 2020, 7, 561-568.	1.7	12
12	Nitrogen-doped mesoporous carbon nanosheet network entrapped nickel nanoparticles as an efficient catalyst for electro-oxidation of glycerol. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28821-28835.	3.8	14
13	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10395-10401.	5.2	12
14	MnO ₂ cacti-like nanostructured platform powers the enhanced electrochemical immunobiosensing of cortisol. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128134.	4.0	16
15	Electrochemical deposition of metal-organic framework films and their applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7569-7587.	5.2	126
16	Enhanced electrocatalytic hydrogen evolution on a plasmonic electrode: the importance of the Ti/TiO ₂ adhesion layer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13980-13986.	5.2	10
17	In-situ formation of Ni (oxy)hydroxide on Ni foam as an efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8490-8496.	3.8	31
18	Grain boundaries of Co(OH) ₂ -Ni-Cu nanosheets on the cotton fabric substrate for stable and efficient electro-oxidation of hydrazine. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24591-24603.	3.8	16

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19	A template-directed bifunctional Ni _x /nitrogen-doped mesoporous carbon electrocatalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19889-19897.	5.2	43
20	Hierarchical core-shell structured Ni ₃ S ₂ /NiMoO ₄ nanowires: a high-performance and reusable electrochemical sensor for glucose detection. <i>Analyst</i> , 2019, 144, 4925-4934.	1.7	24
21	Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures. <i>Materials</i> , 2019, 12, 43.	1.3	17
22	Catalytic current mapping of oxygen reduction on isolated Pt particles by atomic force microscopy-scanning electrochemical microscopy. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117843.	10.8	14
23	Cobalt Oxide Porous Nanocubes-Based Electrochemical Immunobiosensing of Hepatitis B Virus DNA in Blood Serum and Urine Samples. <i>Analytical Chemistry</i> , 2019, 91, 5824-5833.	3.2	44
24	Ternary nickel cobalt manganese spinel oxide nanoparticles as heterogeneous electrocatalysts for oxygen evolution and oxygen reduction reaction. <i>Materials Chemistry and Physics</i> , 2019, 229, 190-196.	2.0	31
25	Simultaneous Mapping of Oxygen Reduction Activity and Hydrogen Peroxide Generation on Electrocatalytic Surfaces. <i>ChemSusChem</i> , 2019, 12, 2708-2714.	3.6	11
26	Titanium hydride a stable support for Pt catalysts in oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2049-2058.	1.2	3
27	Nanoscale mapping of catalytic hotspots on Fe, N-modified HOPG by scanning electrochemical microscopy-atomic force microscopy. <i>Nanoscale</i> , 2018, 10, 6962-6970.	2.8	20
28	Nucleic aptamer modified porous reduced graphene oxide/MoS ₂ based electrodes for viral detection: Application to human papillomavirus (HPV). <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 991-1000.	4.0	82
29	Enhanced Urea Activity of Oxidation on Nickel-Deposited Tin Dendrites. <i>ChemElectroChem</i> , 2017, 4, 1037-1043.	1.7	36
30	Atomic Force Microscopic and Raman Investigation of Boron-Doped Diamond Nanowire Electrodes and Their Activity toward Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3397-3403.	1.5	13
31	Unraveling the Oxygen-Reduction Sites in Graphitic-Carbon Co-N-C-Type Electrocatalysts Prepared by Single-Precursor Pyrolysis. <i>ChemCatChem</i> , 2017, 9, 1969-1978.	1.8	18
32	Electrochemical Oxygen Reduction Activity of Metal Embedded Nitrogen Doped Carbon Nanostructures Derived from Pyrolysis of Nitrogen-Rich Guanidinium Salt. <i>Journal of the Electrochemical Society</i> , 2017, 164, F781-F789.	1.3	8
33	Exceptionally Active and Stable Spinel Nickel Manganese Oxide Electrocatalysts for Urea Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12176-12185.	4.0	130
34	Green Synthesis of Reduced Graphene Oxide-Silver Nanoparticles Using Environmentally Friendly L-arginine for H ₂ O ₂ Detection. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, M3060-M3066.	0.9	16
35	Insights on the Electrochemical Atomic Force Microscopic Catalytic Oxygen Reduction on Tip Guided Platinum Particle Deposits. <i>Electrochimica Acta</i> , 2016, 217, 100-107.	2.6	4
36	Vertically Aligned Nitrogen-Doped Carbon Nanotube Carpet Electrodes: Highly Sensitive Interfaces for the Analysis of Serum from Patients with Inflammatory Bowel Disease. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9600-9609.	4.0	16

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37	Electrochemical Oxygen Reduction Activity of Cobalt-Nitrogen-Carbon Composite Catalyst Prepared by Single Precursor Pyrolysis under Autogenic Pressure. <i>Journal of the Electrochemical Society</i> , 2016, 163, F428-F436.	1.3	13
38	The Synthesis of Metallic $\text{In}_2\text{-Sn}$ Nanostructures for Use as a Novel Pt Catalyst Support and Evaluation of Their Activity Toward Methanol Electrooxidation. <i>Electrocatalysis</i> , 2015, 6, 554-562.	1.5	9
39	Electrocatalytic activity of nitrogen plasma treated vertically aligned carbon nanotube carpets towards oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2014, 49, 42-46.	2.3	23
40	Carbohydrate-Lectin Interaction on Graphene-Coated Surface Plasmon Resonance (SPR) Interfaces. <i>Plasmonics</i> , 2014, 9, 677-683.	1.8	34
41	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. <i>Carbon</i> , 2014, 68, 175-184.	5.4	69
42	Graphene-Coated Surface Plasmon Resonance Interfaces for Studying the Interactions between Bacteria and Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5422-5431.	4.0	65
43	Preparation of reduced graphene oxide-Ni(OH) ₂ composites by electrophoretic deposition: application for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5525-5533.	5.2	128
44	Insulin loaded iron magnetic nanoparticle-graphene oxide composites: synthesis, characterization and application for in vivo delivery of insulin. <i>RSC Advances</i> , 2014, 4, 865-875.	1.7	33
45	Diamond nanowires modified with poly[3-(pyrrolyl)carboxylic acid] for the immobilization of histidine-tagged peptides. <i>Analyst</i> , The, 2014, 139, 4343.	1.7	8
46	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. <i>Analyst</i> , The, 2014, 139, 1726.	1.7	19
47	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. <i>Plasmonics</i> , 2014, 9, 507-512.	1.8	44
48	Non-enzymatic glucose sensing on long and short diamond nanowire electrodes. <i>Electrochemistry Communications</i> , 2013, 34, 286-290.	2.3	60
49	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. <i>Biosensors and Bioelectronics</i> , 2013, 50, 239-243.	5.3	125
50	Peroxynitrite activity of hemin-functionalized reduced graphene oxide. <i>Analyst</i> , The, 2013, 138, 4345.	1.7	42
51	Simultaneous electrochemical detection of tryptophan and tyrosine using boron-doped diamond and diamond nanowire electrodes. <i>Electrochemistry Communications</i> , 2013, 35, 84-87.	2.3	67
52	Diamond nanowires decorated with metallic nanoparticles: A novel electrical interface for the immobilization of histidinylated biomolecules. <i>Electrochimica Acta</i> , 2013, 110, 4-8.	2.6	20
53	Mechanochemical synthesis and characterization of poly(2,5-dimethoxy aniline) salts. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4281-4288.	1.3	8
54	Localized surface plasmon resonance interfaces coated with poly[3-(pyrrolyl)carboxylic acid] for histidine-tagged peptide sensing. <i>Analyst</i> , The, 2011, 136, 4211.	1.7	5

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55	Template-free mechanochemical route to prepare crystalline and electroactive polydiphenylamine nanostructures. <i>Materials Chemistry and Physics</i> , 2011, 129, 948-954.	2.0	6
56	Electrochemical synthesis and characterization of poly(aniline-co-1-amino-9,10-anthraquinone), a nanosized conducting copolymer. <i>Journal of Polymer Research</i> , 2011, 18, 311-317.	1.2	8
57	Preparation of a functional nanofibrous polymer membrane incorporated with poly(2-aminothio) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	7
58	Mechanochemical preparation of polydiphenylamine and its electrochemical performance in hybrid supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 6123-6130.	2.6	19
59	Large-Scale Preparation of Polyaniline Nanospheres Anchored with Thiol-Stabilized Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 358-362.	0.9	0
60	Rapid synthesis of polypyrrole nanospheres by greener mechanochemical route. <i>Materials Chemistry and Physics</i> , 2010, 122, 15-17.	2.0	28
61	Electropolymerisation and characterisation of nanosize conducting poly[(chloroaniline)-co-(4,4'-diaminodiphenylsulfone)] on a polyaniline-modified electrode. <i>Polymer International</i> , 2010, 59, 456-462.	1.6	5
62	Enhanced Sensing of Carbendazim, a Fungicide on Functionalized Multiwalled Carbon Nanotube Modified Glassy Carbon Electrode and Its Determination in Real Samples. <i>Analytical Letters</i> , 2010, 43, 1457-1470.	1.0	26
63	Electroanalysis of some common pesticides using conducting polymer/multiwalled carbon nanotubes modified glassy carbon electrode. <i>Talanta</i> , 2008, 76, 1022-1028.	2.9	69