

Palaniappan Subramanian

List of Publications by Year in descending order

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63
papers

1,922
citations

257357

24
h-index

265120

42
g-index

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all docs

63
docs citations

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times ranked

2908
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Electrochemical deposition of metal-organic framework films and their applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7569-7587.	5.2	126
4	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. <i>Biosensors and Bioelectronics</i> , 2013, 50, 239-243.	5.3	125
5	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
6	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
7	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. <i>Carbon</i> , 2014, 68, 175-184.	5.4	69
8	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
9	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
10	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
11	Non-enzymatic glucose sensing on long and short diamond nanowire electrodes. <i>Electrochemistry Communications</i> , 2013, 34, 286-290.	2.3	60
12	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
13	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. <i>Plasmonics</i> , 2014, 9, 507-512.	1.8	44
14	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
15	A template-directed bifunctional NiS _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
16	Peroxynitrite activity of hemin-functionalized reduced graphene oxide. <i>Analyst</i> , 2013, 138, 4345.	1.7	42
17	Enhanced Urea Activity of Oxidation on Nickel-Deposited Tin Dendrites. <i>ChemElectroChem</i> , 2017, 4, 1037-1043.	1.7	36
18	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

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19	Carbohydrateâ€“Lectin Interaction on Graphene-Coated Surface Plasmon Resonance (SPR) Interfaces. <i>Plasmonics</i> , 2014, 9, 677-683.	1.8	34
20	Insulin loaded iron magnetic nanoparticleâ€“graphene oxide composites: synthesis, characterization and application for in vivo delivery of insulin. <i>RSC Advances</i> , 2014, 4, 865-875.	1.7	33
21	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
22	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
23	Rapid synthesis of polypyrrole nanospheres by greener mechanochemical route. <i>Materials Chemistry and Physics</i> , 2010, 122, 15-17.	2.0	28
24	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
25	Hierarchical coreâ€“shell structured Ni ₃ S ₂ /NiMoO ₄ nanowires: a high-performance and reusable electrochemical sensor for glucose detection. <i>Analyst</i> , The, 2019, 144, 4925-4934.	1.7	24
26	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
27	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
28	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
29	Mechanochemical preparation of polydiphenylamine and its electrochemical performance in hybrid supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 6123-6130.	2.6	19
30	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. <i>Analyst</i> , The, 2014, 139, 1726.	1.7	19
31	Unraveling the Oxygenâ€“Reduction Sites in Graphiticâ€“Carbon Coâ€“Nâ€“Câ€“Type Electrocatalysts Prepared by Singleâ€“Precursor Pyrolysis. <i>ChemCatChem</i> , 2017, 9, 1969-1978.	1.8	18
32	Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures. <i>Materials</i> , 2019, 12, 43.	1.3	17
33	Rational construction of hierarchical Ni(OH) ₂ â€“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
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	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
36	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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37	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
38	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
39	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
40	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
41	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
42	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
43	Electrochemical Oxidation of Glycine with Bimetallic Nickel ^{II} -Manganese Oxide Catalysts. <i>ChemElectroChem</i> , 2020, 7, 561-568.	1.7	12
44	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
45	Simultaneous Mapping of Oxygen Reduction Activity and Hydrogen Peroxide Generation on Electrocatalytic Surfaces. <i>ChemSusChem</i> , 2019, 12, 2708-2714.	3.6	11
46	Nickel-phosphate pompon flowers nanostructured network enables the sensitive detection of microRNA. <i>Talanta</i> , 2020, 209, 120511.	2.9	11
47	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
48	The Synthesis of Metallic ¹² -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
49	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
50	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
51	Diamond nanowires modified with poly[3-(pyrrolyl)carboxylic acid] for the immobilization of histidine-tagged peptides. <i>Analyst</i> , 2014, 139, 4343.	1.7	8
52	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
53	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
54	Preparation of a functional nanofibrous polymer membrane incorporated with poly(2-aminothio) Tj ETQq0 0 0 rgBT ₁ /Overlock ₇ 10 Tf 50 6	1.1	7

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55	Î±-Co(OH) ₂ Thin-Layered Cactus-Like Nanostructures Wrapped Ni ₃ S ₂ Nanowires: A Robust and Potential Catalyst for Electro-Oxidation of Hydrazine. ChemElectroChem, 2021, 8, 937-947.	1.7	7
56	Template-free mechanochemical route to prepare crystalline and electroactive polydiphenylamine nanostructures. Materials Chemistry and Physics, 2011, 129, 948-954.	2.0	6
57	Electropolymerisation and characterisation of nanosize conducting poly[(chloroaniline)-co-(4,4'-diaminodiphenylsulfone)] on a polyaniline-modified electrode. Polymer International, 2010, 59, 456-462.	1.6	5
58	Localized surface plasmon resonance interfaces coated with poly[3-(pyrrolyl)carboxylic acid] for histidine-tagged peptide sensing. Analyst, The, 2011, 136, 4211.	1.7	5
59	Insights on the Electrochemical Atomic Force Microscopic Catalytic Oxygen Reduction on Tip Guided Platinum Particle Deposits. Electrochimica Acta, 2016, 217, 100-107.	2.6	4
60	Titanium hydride—a stable support for Pt catalysts in oxygen reduction reaction. Journal of Solid State Electrochemistry, 2018, 22, 2049-2058.	1.2	3
61	MnOOH nanoparticles integrated nitrogen doped porous nanosheet-like carbon network as a non-noble catalyst for electro-oxidation of sodium borohydride. International Journal of Hydrogen Energy, 2021, 46, 9380-9393.	3.8	3
62	Co Nanoparticle-Encapsulated Nitrogen-Doped Carbon Nanotubes as an Efficient and Robust Catalyst for Electro-Oxidation of Hydrazine. Nanomaterials, 2021, 11, 2857.	1.9	3
63	Large-Scale Preparation of Polyaniline Nanospheres Anchored with Thiol-Stabilized Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 358-362.	0.9	0