

Pitchaimani Veerakumar

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73
papers

2,089
citations

27
h-index

43
g-index

77
ext. papers

2,649
ext. citations

6.1
avg, IF

5.55
L-index

#	Paper	IF	Citations
73	Palladium Nanoparticle Incorporated Porous Activated Carbon: Electrochemical Detection of Toxic Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1319-26	9.5	110
72	Nickel Nanoparticle-Decorated Porous Carbons for Highly Active Catalytic Reduction of Organic Dyes and Sensitive Detection of Hg(II) Ions. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24810-21	9.5	101
71	Biomass-Derived Activated Carbon Supported Fe ₃ O ₄ Nanoparticles as Recyclable Catalysts for Reduction of Nitroarenes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6772-6782	8.3	91
70	Highly dispersed silica-supported nanocopper as an efficient heterogeneous catalyst: application in the synthesis of 1,2,3-triazoles and thioethers. <i>Catalysis Science and Technology</i> , 2011 , 1, 1512	5.5	80
69	Functionalized Silica Matrices and Palladium: A Versatile Heterogeneous Catalyst for Suzuki, Heck, and Sonogashira Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6357-6376	8.3	74
68	Electrochemical detection of 4-nitrophenol based on biomass derived activated carbons. <i>Analytical Methods</i> , 2014 , 6, 5274	3.2	74
67	Ultrathin Sulfur-Doped Graphitic Carbon Nitride Nanosheets As Metal-Free Catalyst for Electrochemical Sensing and Catalytic Removal of 4-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16021-16031	8.3	74
66	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	13	72
65	Polyelectrolyte encapsulated gold nanoparticles as efficient active catalyst for reduction of nitro compounds by kinetic method. <i>Applied Catalysis A: General</i> , 2012 , 439-440, 197-205	5.1	65
64	Research Progress on Porous Carbon Supported Metal/Metal Oxide Nanomaterials for Supercapacitor Electrode Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6347-6374	3.9	63
63	Biomass Derived Sheet-like Carbon/Palladium Nanocomposite: An Excellent Opportunity for Reduction of Toxic Hexavalent Chromium. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5302-5312	8.3	62
62	Functional porous carbon-ZnO nanocomposites for high-performance biosensors and energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16466-75	3.6	58
61	Silica-supported PEI capped nanopalladium as potential catalyst in Suzuki, Heck and Sonogashira coupling reactions. <i>Applied Catalysis A: General</i> , 2013 , 455, 247-260	5.1	52
60	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. <i>Analyst, The</i> , 2014 , 139, 4994-5000	5	47
59	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	8.5	45
58	Alumina supported nanoruthenium as efficient heterogeneous catalyst for the selective H ₂ O ₂ oxidation of aliphatic and aromatic sulfides to sulfoxides. <i>Journal of Molecular Catalysis A</i> , 2010 , 332, 128-137		42
57	Functional porous carbon/nickel oxide nanocomposites as binder-free electrodes for supercapacitors. <i>Chemistry - A European Journal</i> , 2015 , 21, 8200-6	4.8	40

56	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 19949	4.9	40
55	Computational Studies of Versatile Heterogeneous Palladium-Catalyzed Suzuki, Heck, and Sonogashira Coupling Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8475-8490	8.3	38
54	Well-dispersed rhenium nanoparticles on three-dimensional carbon nanostructures: Efficient catalysts for the reduction of aromatic nitro compounds. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 271-282	9.3	36
53	Facile and novel synthesis of palladium nanoparticles supported on a carbon aerogel for ultrasensitive electrochemical sensing of biomolecules. <i>Nanoscale</i> , 2017 , 9, 6486-6496	7.7	35
52	Fabrication of Platinum/Rhenium Nanoparticle-Decorated Porous Carbons: Voltammetric Sensing of Furazolidone. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3591-3605	8.3	35
51	Ruthenium Nanoparticles Decorated Tungsten Oxide as a Bifunctional Catalyst for Electrocatalytic and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31794-31805	9.5	35
50	Highly stable ruthenium nanoparticles on 3D mesoporous carbon: an excellent opportunity for reduction reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23448-23457	13	34
49	Carbon aerogel supported palladium-ruthenium nanoparticles for electrochemical sensing and catalytic reduction of food dye. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 48-59	8.5	34
48	Cajeput tree bark derived activated carbon for the practical electrochemical detection of vanillin. <i>New Journal of Chemistry</i> , 2015 , 39, 9109-9115	3.6	29
47	Ultrathin 2D graphitic carbon nitride nanosheets decorated with silver nanoparticles for electrochemical sensing of quercetin. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 826, 207-216	4.1	28
46	Voltammetric determination of catechol and hydroquinone using nitrogen-doped multiwalled carbon nanotubes modified with nickel nanoparticles. <i>Mikrochimica Acta</i> , 2018 , 185, 395	5.8	27
45	Three-dimensional zinc oxide nanostars anchored on graphene oxide for voltammetric determination of methyl parathion. <i>Mikrochimica Acta</i> , 2019 , 187, 17	5.8	27
44	MoN Nanorod/Sulfur-Doped Graphitic Carbon Nitride for Electrochemical Determination of Chloramphenicol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11088-11098	8.3	26
43	Activated porous carbon supported rhenium composites as electrode materials for electrocatalytic and supercapacitor applications. <i>Electrochimica Acta</i> , 2018 , 271, 433-447	6.7	25
42	Ru/Al ₂ O ₃ catalyzed N-oxidation of tertiary amines by using H ₂ O ₂ . <i>Catalysis Science and Technology</i> , 2012 , 2, 1140	5.5	25
41	Low-cost palladium decorated on m-aminophenol-formaldehyde-derived porous carbon spheres for the enhanced catalytic reduction of organic dyes. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 354-363	6.8	24
40	Gold Nanoparticle Embedded on a Reduced Graphene Oxide/polypyrrole Nanocomposite: Voltammetric Sensing of Furazolidone and Flutamide. <i>Langmuir</i> , 2020 , 36, 13949-13962	4	22
39	 Nanoparticle/Carbon Nanotube Nanocomposite with Superior Electrocatalytic Activity for Electrochemical Detection of Toxic Mercury(II). <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1943-1952 ²¹		

38	Ordered mesoporous carbon supported bifunctional PtM (M = Ru, Fe, Mo) electrocatalysts for a fuel cell anode. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 43-53	11.3	21
37	Voltammetric determination of vitamin B by using a highly porous carbon electrode modified with palladium-copper nanoparticles. <i>Mikrochimica Acta</i> , 2019 , 186, 299	5.8	20
36	An overview of palladium supported on carbon-based materials: Synthesis, characterization, and its catalytic activity for reduction of hexavalent chromium. <i>Chemosphere</i> , 2020 , 253, 126750	8.4	20
35	Ultrafine gold nanoparticle embedded poly(diallyldimethylammonium chloride)graphene oxide hydrogels for voltammetric determination of an antimicrobial drug (metronidazole). <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7575-7590	7.1	20
34	Catalytic Activity of Bimetallic (Ruthenium/Palladium) Nano-alloy Decorated Porous Carbons Toward Reduction of Toxic Compounds. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2662-2675	4.5	19
33	Functionalized Mesoporous Carbon Nanostructures for Efficient Removal of Eriochrome Black-T from Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1305-1321	2.8	19
32	A robust Mn@FeNi-S/graphene oxide nanocomposite as a high-efficiency catalyst for the non-enzymatic electrochemical detection of hydrogen peroxide. <i>Nanoscale</i> , 2020 , 12, 5961-5972	7.7	19
31	Palladium and silver nanoparticles embedded on zinc oxide nanostars for photocatalytic degradation of pesticides and herbicides. <i>Chemical Engineering Journal</i> , 2021 , 410, 128434	14.7	19
30	Paper flower-derived porous carbons with high-capacitance by chemical and physical activation for sustainable applications. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 2995-3007	5.9	19
29	Simple Preparation of Porous Carbon-Supported Ruthenium: Propitious Catalytic Activity in the Reduction of Ferrocyanate(III) and a Cationic Dye. <i>ACS Omega</i> , 2018 , 3, 12609-12621	3.9	19
28	Sol-Gel Synthesis of Carbon-Coated LaCoO ₃ for Effective Electrocatalytic Oxidation of Salicylic Acid. <i>ChemElectroChem</i> , 2017 , 4, 935-940	4.3	18
27	Sr-Doped NiO ₃ nanorods synthesized by a simple sonochemical method as excellent materials for voltammetric determination of quercetin. <i>New Journal of Chemistry</i> , 2020 , 44, 2821-2832	3.6	18
26	A Metal-Free Carbon-Based Catalyst: An Overview and Directions for Future Research. <i>Journal of Carbon Research</i> , 2018 , 4, 54	3.3	16
25	Graphene Oxide Nanosheets as An Efficient and Reusable Sorbents for Eosin Yellow Dye Removal from Aqueous Solutions. <i>ChemistrySelect</i> , 2017 , 2, 3598-3607	1.8	14
24	Highly sensitive enzyme-free amperometric sensing of hydrogen peroxide in real samples based on Co ₃ O ₄ nanocolumn structures. <i>Analytical Methods</i> , 2019 , 11, 2292-2302	3.2	13
23	Binder-Free Modification of a Glassy Carbon Electrode by Using Porous Carbon for Voltammetric Determination of Nitro Isomers. <i>ACS Omega</i> , 2019 , 4, 8907-8918	3.9	12
22	Ruthenium nanocatalysis on redox reactions. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4761-4766	1.86	12
21	Economically applicable Ti(2)O(3) decorated m-aminophenol-formaldehyde resin microspheres for dye-sensitized solar cells (DSSCs). <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 82-91	9.3	11

20	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. <i>ChemistrySelect</i> , 2017 , 2, 1398-1408	1.8	10
19	Ultrafine Bi-Sn nanoparticles decorated on carbon aerogels for electrochemical simultaneous determination of dopamine (neurotransmitter) and clozapine (antipsychotic drug). <i>Nanoscale</i> , 2020 , 12, 22217-22233	7.7	9
18	MnCo ₂ O ₄ Microflowers Anchored on P-Doped g-C ₃ N ₄ Nanosheets as an Electrocatalyst for Voltammetric Determination of the Antibiotic Drug Sulfadiazine. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3915-3926	4	9
17	Carbon/Boron core-shell microspheres for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12987-12994	13	8
16	Highly Selective Voltammetric Sensor for L-Tryptophan Using Composite-Modified Electrode Composed of CuSn(OH) ₆ Microsphere Decorated on Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25821-25834	3.8	8
15	Zinc and Sulfur Codoped Iron Oxide Nanocubes Anchored on Carbon Nanotubes for the Detection of Antitubercular Drug Isoniazid. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4562-4575	5.6	8
14	Recent Developments in Carbon-Based Nanocomposites for Fuel Cell Applications: A Review.. <i>Molecules</i> , 2022 , 27,	4.8	7
13	Development of Palladium on Bismuth Sulfide Nanorods as a Bifunctional Nanomaterial for Efficient Electrochemical Detection and Photoreduction of Hg(II) Ions.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	6
12	Carbon Dot Nanoparticles Exert Inhibitory Effects on Human Platelets and Reduce Mortality in Mice with Acute Pulmonary Thromboembolism. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
11	Electrochemical sensor-based barium zirconate on sulphur-doped graphitic carbon nitride for the simultaneous determination of nitrofurantoin (antibacterial agent) and nilutamide (anticancer drug). <i>Journal of Electroanalytical Chemistry</i> , 2021 , 901, 115782	4.1	4
10	Metal Nanoparticles Anchored on Rhenium Disulfide Nanosheets as Catalysts for the Reduction of Aromatic Nitro Compounds. <i>ChemNanoMat</i> , 2018 , 4, 1262-1269	3.5	4
9	Efficient and green synthesis of silver nanocomposite using guar gum for voltammetric determination of diphenylamine. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 1289-1302 ¹		3
8	Application of Nanocomposites for Photocatalytic Removal of Dye Contaminants 2019 , 131-161		2
7	Ultrafine rhenium/uthenium nanoparticles decorated on functionalized carbon nanotubes for the simultaneous determination of antibiotic (nitrofurantoin) and anti-testosterone (flutamide) drugs. <i>Journal of Materials Chemistry C</i> ,	7.1	2
6	Polyol-assisted synthesis of spinel-type magnesium cobalt oxide nanochains for voltammetric determination of the antipsychotic drug thioridazine. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115600	4.1	2
5	Metal oxide-carbon nanocomposite-modified electrochemical sensors for toxic chemicals 2021 , 173-212		1
4	Bismuth sulfide/zinc-doped graphitic carbon nitride nanocomposite for electrochemical detection of hazardous nitric oxide. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 910, 116174	4.1	1
3	Computational and Experimental Analysis of Carbon Functional Nanomaterials 2020 , 269-311		

2 Graphitic carbon nitride for supercapacitor **2022**, 301-340

1 Graphitic carbon nitride for photodegradation of dye Molecules **2022**, 97-140