Padmanabhan Santhosh

List of Publications by Year
in descending order

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63 papers	3,206 citations	126907 33 h-index	149698 56 g-index
64 all docs	64 docs citations	64 times ranked	3829 citing authors

#	Article	IF	Citations
1	Validation of a membrane touch biosensor for the qualitative detection of IgG class antibodies to herpes simplex virus type 2. Analyst, The, 2017, 142, 2725-2734.	3.5	4
2	Ultrafast Electron Transfer Kinetics of Graphene Grown by Chemical Vapor Deposition. Angewandte Chemie - International Edition, 2015, 54, 15134-15137.	13.8	49
3	Origins of Nanoscale Damage to Glass-Sealed Platinum Electrodes with Submicrometer and Nanometer Size. Analytical Chemistry, 2013, 85, 6198-6202.	6.5	104
4	Sensitive electrochemical detection of superoxide anion using gold nanoparticles distributed poly(methyl methacrylate)â€“polyaniline coreâ€“shell electrospun composite electrode. Analyst, The, 2011, 136, 1557.	3.5	59
5	High-fidelity determination of security threats via a Boolean biocatalytic cascade. Chemical Communications, 2011, 47, 3087.	4.1	46
6	Microneedle array-based carbon paste amperometric sensors and biosensors. Analyst, The, 2011, 136, 1846.	3.5	130
7	Generalized Theory for Nanoscale Voltammetric Measurements of Heterogeneous Electron-Transfer Kinetics at Macroscopic Substrates by Scanning Electrochemical Microscopy. Analytical Chemistry, 2011, 83, 5928-5935.	6.5	30
8	Development of amperometric Î±-ketoglutarate biosensor based on rutheniumâ€“rhodium modified carbon fiber enzyme microelectrode. Biosensors and Bioelectronics, 2011, 26, 3670-3673.	10.1	22
9	Bioelectronic system for the control and readout of enzyme logic gates. Sensors and Actuators B: Chemical, 2011, 155, 206-213.	7.8	19
10	One-pot construction of mediatorless bi-enzymatic glucose biosensor based on organicâ€“inorganic hybrid. Biosensors and Bioelectronics, 2010, 25, 1579-1586.	10.1	44
11	Silicaâ€Polyaniline Based Bienzyme Cholesterol Biosensor: Fabrication and Characterization. Electroanalysis, 2010, 22, 2467-2474.	2.9	16
12	Textileâ€based Electrochemical Sensing: Effect of Fabric Substrate and Detection of Nitroaromatic Explosives. Electroanalysis, 2010, 22, 2511-2518.	2.9	84
13	Boolean-format biocatalytic processing of enzyme biomarkers for the diagnosis of soft tissue injury. Sensors and Actuators B: Chemical, 2010, 150, 285-290.	7.8	21
14	Strip-based amperometric detection of myeloperoxidase. Biosensors and Bioelectronics, 2010, 26, 886-889.	10.1	12
15	Hybrid Polymerâ€Grafted Multiwalled Carbon Nanotubes for In vitro Gene Delivery. Small, 2010, 6, 2281-2291.	10.0	94
16	Multi-enzyme logic network architectures for assessing injuries: digital processing of biomarkers. Molecular BioSystems, 2010, 6, 2554.	2.9	80
17	Enzymatic AND Logic Gates Operated Under Conditions Characteristic of Biomedical Applications. Journal of Physical Chemistry B, 2010, 114, 12166-12174.	2.6	55
18	Multiplexing of injury codes for the parallel operation of enzyme logic gates. Analyst, The, 2010, 135, 2249.	3.5	96

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19	Hollow spherical nanostructured polydiphenylamine for direct electrochemistry and glucose biosensor. Biosensors and Bioelectronics, 2009, 24, 2008-2014.	10.1	39
20	Enzyme logic gates for the digital analysis of physiological level upon injury. Biosensors and Bioelectronics, 2009, 24, 3569-3574.	10.1	81
21	Physical properties and characterization of RuSr2GdCu2O8 (Ru-1212) grown by top seeded melt textured technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 163, 165-169.	3.5	2
22	Fabrication of enzymatic glucose biosensor based on palladium nanoparticles dispersed onto poly(3,4-ethylenedioxythiophene) nanofibers. Bioelectrochemistry, 2009, 75, 61-66.	4.6	102
23	Electrochemical detection of celecoxib at a polyaniline grafted multiwall carbon nanotubes modified electrode. Analytica Chimica Acta, 2008, 626, 1-9.	5.4	39
24	A novel glucose biosensor based on immobilization of glucose oxidase into multiwall carbon nanotubesâ€“polyelectrolyte-loaded electrospun nanofibrous membrane. Biosensors and Bioelectronics, 2008, 23, 771-779.	10.1	154
25	Self-assembly directed synthesis of gold nanostructures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 612-616.	4.7	4
26	Poly(vinylidene fluoride)â€“polydiphenylamine composite electrospun membrane as high-performance polymer electrolyte for lithium batteries. Journal of Membrane Science, 2008, 318, 422-428.	8.2	68
27	Development of electrospun PVdFâ€“PAN membrane-based polymer electrolytes for lithium batteries. Journal of Membrane Science, 2008, 325, 683-690.	8.2	263
28	Electrocatalytic oxidation of NADH at gold nanoparticles loaded poly(3,4-ethylenedioxythiophene)â€“poly(styrene sulfonic acid) film modified electrode and integration of alcohol dehydrogenase for alcohol sensing. Talanta, 2008, 75, 1307-1314.	5.5	110
29	Synthesis and Characterization of Processable Multi-Walled Carbon Nanotubesâ€”Sulfonated Polydiphenylamine Graft Copolymers. Journal of Nanoscience and Nanotechnology, 2007, 7, 3386-3393.	0.9	6
30	Enhanced Electrochemical Detection of Ketorolac Tromethamine at Polypyrrole Modified Glassy Carbon Electrode. Analytical Sciences, 2007, 23, 475-478.	1.6	13
31	Fabrication of a Gold Nanoparticles Decorated Carbon Nanotubes Based Novel Modified Electrode for the Electrochemical Detection of Glucose. Journal of Nanoscience and Nanotechnology, 2007, 7, 3365-3372.	0.9	15
32	Electrochemical determination of dopamine and ascorbic acid at a novel gold nanoparticles distributed poly(4-aminothiophenol) modified electrode. Talanta, 2007, 71, 1774-1781.	5.5	122
33	Fabrication of Functional Nanofibrous Ammonia Sensor. IEEE Nanotechnology Magazine, 2007, 6, 513-518.	2.0	29
34	Influence of Finely Dispersed Carbon Nanotubes on the Performance Characteristics of Polymer Electrolytes for Lithium Batteries. IEEE Nanotechnology Magazine, 2007, 6, 362-367.	2.0	13
35	Gamma radiation induced distribution of gold nanoparticles into carbon nanotube-polyaniline composite. Composites Science and Technology, 2007, 67, 811-816.	7.8	71
36	Different types of molecular interactions in carbon nanotube/conducting polymer composites â€“ A close analysis. Composites Science and Technology, 2007, 67, 900-905.	7.8	55

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37	Electrospun poly(vinylidene fluoride)/poly(aminophenylboronic acid) composite nanofibrous membrane as a novel glucose sensor. Analytical Biochemistry, 2007, 360, 189-195.	2.4	99
38	Electro-analysis of energetic materials. Journal of Hazardous Materials, 2007, 148, 573-582.	12.4	5
39	LiNi0.8Co0.2â^'xTixO2 nanoparticles: synthesis, structure, and evaluation of electrochemical properties for lithium ion cell application. Journal of Solid State Electrochemistry, 2007, 11, 1665-1669.	2.5	12
40	Novel amperometric carbon monoxide sensor based on multi-wall carbon nanotubes grafted with polydiphenylamineâ€"Fabrication and performance. Sensors and Actuators B: Chemical, 2007, 125, 92-99.	7.8	73
41	Voltammetric determination of nitroaromatic and nitramine explosives contamination in soil. Talanta, 2006, 69, 656-662.	5.5	82
42	Fabrication and Electrocatalysis of Self-Assembly Directed Gold Nanoparticles Anchored Carbon Nanotubes Modified Electrode. Journal of Nanoscience and Nanotechnology, 2006, 6, 1575-1583.	0.9	17
43	Nanostructuring of Poly(diphenylamine) Inside the Galleries of Montmorillonite Organo Clay Through Self-Assembly Approach. Journal of Nanoscience and Nanotechnology, 2006, 6, 1594-1601.	0.9	8
44	Fabrication of a new polyaniline grafted multi-wall carbon nanotube modified electrode and its application for electrochemical detection of hydrogen peroxide. Analytica Chimica Acta, 2006, 575, 32-38.	5.4	103
45	Platinum particles dispersed poly(diphenylamine) modified electrode for methanol oxidation. Applied Surface Science, 2006, 252, 7964-7969.	6.1	36
46	Gold nanoparticles dispersed into poly(aminothiophenol) as a novel electrocatalystâ€"Fabrication of modified electrode and evaluation of electrocatalytic activities for dioxygen reduction. Journal of Molecular Catalysis A, 2006, 256, 335-345.	4.8	57
47	Preparation and characterization of polyurethane/poly(vinylidene fluoride) composites and evaluation as polymer electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 135, 65-73.	3.5	21
48	Preparation and properties of new cross-linked polyurethane acrylate electrolytes for lithium batteries. Journal of Power Sources, 2006, 160, 609-620.	7.8	66
49	Role of organic additives on zinc plating. Surface and Coatings Technology, 2006, 201, 3438-3442.	4.8	52
50	Gold nanoparticles dispersed polyaniline grafted multiwall carbon nanotubes as newer electrocatalysts: Preparation and performances for methanol oxidation. Journal of Catalysis, 2006, 238, 177-185.	6.2	162
51	Evaluation of a cross-linked polyurethane acrylate as polymer electrolyte for lithium batteries. Materials Research Bulletin, 2006, 41, 1023-1037.	5.2	30
52	Preparation and characterization of conducting poly(diphenylamine) entrapped polyurethane network electrolyte. Journal of Applied Polymer Science, 2006, 101, 611-617.	2.6	10
53	Enhanced Electrocatalysis for the Reduction of Hydrogen Peroxide at New Multiwall Carbon Nanotube Grafted Polydiphenylamine Modified Electrode. Electroanalysis, 2006, 18, 894-903.	2.9	50
54	Electrocatalytic Dioxygen Reduction at Glassy Carbon Electrode Modified with Polyaniline Grafted Multiwall Carbon Nanotube Film. Electroanalysis, 2006, 18, 1564-1571.	2.9	56

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55	Electrochemical Characterization of Nanocrystalline LiMxCo1â€xO2 (M=Mg, Ca) Prepared by a Solidâ€State Thermal Method. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 71-81.	0.6	7
56	Microstructure and Thermal Behavior of Poly(o-anisidine)/Poly(ethylene terephthalate) Composite. Polymer Journal, 2005, 37, 489-497.	2.7	5
57	UVâ€“vis spectroscopy for following the kinetics of homogeneous polymerization of diphenylamine in p-toluene sulphonic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 62, 420-430.	3.9	13
58	Studies on monitoring the composition of the copolymer by cyclic voltammetry and in situ spectroelectrochemical analysis. European Polymer Journal, 2005, 41, 97-105.	5.4	7
59	Chemical oxidative grafting of conducting poly(N-methyl aniline) onto poly(ethylene terepthalate). Journal of Applied Polymer Science, 2005, 95, 596-605.	2.6	3
60	Fe3+ ion sensing characteristics of polydiphenylamineâ€”electrochemical and spectroelectrochemical analysis. Sensors and Actuators B: Chemical, 2005, 105, 223-231.	7.8	32
61	Electrochemical Synthesis and Characterization of Conducting Poly(diphenylamine-co-2-methoxyaniline). International Journal of Polymer Analysis and Characterization, 2005, 10, 341-360.	1.9	2
62	Electrochemical, spectroelectrochemical and spectroscopic evidences for copolymer formation between diphenylamine and m-toluidine. Materials Chemistry and Physics, 2004, 85, 316-328.	4.0	22
63	In situ UVâ€“visible spectroelectrochemical studies on the copolymerization of diphenylamine with ortho-methoxy aniline. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 1427-1439.	3.9	19