

Priscilla Baker

List of Publications by Year in descending order

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109
papers

2,337
citations

201575

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254106

43
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111
all docs

111
docs citations

111
times ranked

3102
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallo-Graphene Nanocomposite Electrocatalytic Platform for the Determination of Toxic Metal Ions. <i>Sensors</i> , 2011, 11, 3970-3987.	2.1	131
2	Electrochemical Aptasensor for Endocrine Disrupting 17 β -Estradiol Based on a Poly(3,4-ethylenedioxythiophene)-Gold Nanocomposite Platform. <i>Sensors</i> , 2010, 10, 9872-9890.	2.1	128
3	Synthesis and electrochemical characterization of nanostructured magnetic molecularly imprinted polymers for 17- β -Estradiol determination. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 698-705.	4.0	111
4	Environmental remediation of heavy metal ions from aqueous solution through hydrogel adsorption: a critical review. <i>Water Science and Technology</i> , 2016, 73, 983-992.	1.2	110
5	Electrochemical Immunosensor Based on Polythionine/Gold Nanoparticles for the Determination of Aflatoxin B1. <i>Sensors</i> , 2008, 8, 8262-8274.	2.1	106
6	Electrochemical detection of glyphosate herbicide using horseradish peroxidase immobilized on sulfonated polymer matrix. <i>Bioelectrochemistry</i> , 2009, 75, 117-123.	2.4	94
7	Determination of Anthracene on Ag-Au Alloy Nanoparticles/Overoxidized-Polypyrrole Composite Modified Glassy Carbon Electrodes. <i>Sensors</i> , 2010, 10, 9449-9465.	2.1	62
8	Cytochrome c biosensor for determination of trace levels of cyanide and arsenic compounds. <i>Analytica Chimica Acta</i> , 2012, 730, 49-59.	2.6	53
9	Modelling of the impedimetric responses of an aflatoxin B1 immunosensor prepared on an electrosynthetic polyaniline platform. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1069-1074.	1.9	52
10	Sensitive electrochemical determination of epinephrine at poly(L-aspartic acid)/electro-chemically reduced graphene oxide modified electrode by square wave voltammetry in pharmaceuticals. <i>Journal of Electroanalytical Chemistry</i> , 2017, 807, 145-153.	1.9	48
11	An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly(propyleneimine) Dendrimer. <i>Sensors</i> , 2008, 8, 6791-6809.	2.1	47
12	Synthesis and characterization of poly (2-hydroxyethyl methacrylate)-polyaniline based hydrogel composites. <i>Reactive and Functional Polymers</i> , 2008, 68, 1239-1244.	2.0	44
13	Microsomal cytochrome P450-3A4 (CYP3A4) nanobiosensor for the determination of 2,4-dichlorophenol—An endocrine disruptor compound. <i>Electrochimica Acta</i> , 2009, 54, 1925-1931.	2.6	39
14	Graphenated polyaniline-doped tungsten oxide nanocomposite sensor for real time determination of phenanthrene. <i>Electrochimica Acta</i> , 2014, 128, 138-148.	2.6	39
15	Non-enzymatic polyamic acid sensors for hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 525-533.	4.0	39
16	Electrochemical Sensor Based on Multi-walled Carbon Nanotube/Gold Nanoparticle Modified Glassy Carbon Electrode for Detection of Estradiol in Environmental Samples. <i>Electroanalysis</i> , 2019, 31, 1925-1933.	1.5	38
17	Acetylcholinesterase-polyaniline biosensor investigation of organophosphate pesticides in selected organic solvents. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2007, 42, 297-304.	0.7	37
18	Amperometric nanobiosensor for quantitative determination of glyphosate and glufosinate residues in corn samples. <i>Pure and Applied Chemistry</i> , 2009, 81, 123-139.	0.9	37

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19	Application on Gold Nanoparticles-Dotted 4-Nitrophenylazo Graphene in a Label-Free Impedimetric Deoxyvalenol Immunosensor. <i>Sensors</i> , 2015, 15, 3854-3871.	2.1	37
20	An electrochemical DNA biosensor developed on novel multinuclear nickel(II) salicylaldimine metallodendrimer platform. <i>Electrochimica Acta</i> , 2007, 53, 1689-1696.	2.6	36
21	A potential masking approach in the detection of dopamine on 3-mercaptopropionic acid capped ZnSe quantum dots modified gold electrode in the presence of interferences. <i>Journal of Electroanalytical Chemistry</i> , 2010, 643, 77-81.	1.9	36
22	Synthesis, Characterisation of Novel Polyaniline Nanomaterials and Application in Amperometric Biosensors. <i>Macromolecular Symposia</i> , 2007, 255, 57-69.	0.4	35
23	Electro-oxidation of anthracene on polyanilino-graphene composite electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 184-192.	4.0	35
24	Electrochemical nitrite nanosensor developed with amine- and sulphate-functionalised polystyrene latex beads self-assembled on polyaniline. <i>Electrochimica Acta</i> , 2010, 55, 4274-4280.	2.6	32
25	Ferrocenium hexafluorophosphate-induced nanofibrillarity of polyaniline-polyvinyl sulfonate electropolymer and application in an amperometric enzyme biosensor. <i>Electrochimica Acta</i> , 2010, 55, 4267-4273.	2.6	32
26	Polysulfone Nanocomposite Membranes with improved hydrophilicity. <i>Electrochimica Acta</i> , 2014, 128, 326-335.	2.6	31
27	Complexation-Based Detection of Nickel(II) at a Graphene-Chelate Probe in the Presence of Cobalt and Zinc by Adsorptive Stripping Voltammetry. <i>Sensors</i> , 2017, 17, 1711.	2.1	30
28	3-Mercaptopropionic acid capped ZnSe quantum dot-cytochrome P450 3A4 enzyme biotransducer for 17 β -estradiol. <i>Journal of Electroanalytical Chemistry</i> , 2011, 653, 67-74.	1.9	28
29	Electrochemical Aptatosisensor Responses on Nanocomposites Containing Electro-Deposited Silver Nanoparticles on Poly(Propyleneimine) Dendrimer for the Detection of Microcystin-LR in Freshwater. <i>Sensors</i> , 2016, 16, 1901.	2.1	28
30	Electrochemical Interrogation and Sensor Applications of Nanostructured Polypyrroles. <i>Electroanalysis</i> , 2006, 18, 2441-2450.	1.5	25
31	Polyaniline-Mercaptobenzothiazole Biosensor for Organophosphate and Carbamate Pesticides. <i>Analytical Letters</i> , 2006, 39, 1683-1698.	1.0	25
32	Novel therapeutic biosensor for indinavir-A protease inhibitor antiretroviral drug. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 498-501.	1.4	25
33	Electrochemical and spectroscopic properties of dendritic cobalto-salicylaldiimine DNA biosensor. <i>Electrochimica Acta</i> , 2010, 55, 4296-4302.	2.6	25
34	A Fumonisin Immunosensor Based on Polyanilino-Carbon Nanotubes Doped with Palladium Telluride Quantum Dots. <i>Sensors</i> , 2015, 15, 529-546.	2.1	25
35	Electrochemical Determination of Neomycin and Norfloxacin at a Novel Polymer Nanocomposite Electrode in Aqueous Solution. <i>Analytical Letters</i> , 2017, 50, 1887-1896.	1.0	25
36	Electrochemical Ochratoxin A Immunosensor System Developed on Sulfonated Polyaniline. <i>Electroanalysis</i> , 2011, 23, 122-128.	1.5	24

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37	Conducting polyamic acid membranes for sensing and site-directed immobilization of proteins. <i>Analytical Biochemistry</i> , 2012, 428, 54-63.	1.1	24
38	Chemically amplified cytochrome P450-2E1 drug metabolism nanobiosensor for rifampicin anti-tuberculosis drug. <i>Electrochimica Acta</i> , 2014, 128, 149-155.	2.6	24
39	Aptameric Recognition-Modulated Electroactivity of Poly(4-Styrenesulfonic Acid)-Doped Polyaniline Films for Single-Shot Detection of Tetrodotoxin. <i>Sensors</i> , 2015, 15, 22547-22560.	2.1	24
40	Synthesis, characterization, and preparation of nickel nanoparticles decorated electrochemically reduced graphene oxide modified electrode for electrochemical sensing of diclofenac. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3607-3619.	1.2	21
41	Synthesis and Characterization of Novel Nanophase Hexagonal Poly(2,5-dimethoxyaniline). <i>Electroanalysis</i> , 2008, 20, 2347-2353.	1.5	19
42	Synthesis and characterization of poly(propylene imine) dendrimer " Polypyrrole conducting star copolymer. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 18-25.	1.9	19
43	Label Free Poly(2,5-dimethoxyaniline)"Multi-Walled Carbon Nanotubes Impedimetric Immunosensor for Fumonisin B1 Detection. <i>Materials</i> , 2016, 9, 273.	1.3	19
44	Graphenated tantalum(IV) oxide and poly(4-styrene sulphonic acid)-doped polyaniline nanocomposite as cathode material in an electrochemical capacitor. <i>Electrochimica Acta</i> , 2014, 128, 226-237.	2.6	18
45	Electrochemical Synthesis and Characterization of 1,2-Naphthaquinone-4-Sulfonic Acid Doped Polypyrrole. <i>Electroanalysis</i> , 2007, 19, 303-309.	1.5	16
46	Metallo-functionalized first-generation salicylaldimine poly(propylenimine) tetraamine dendrimers: Electrochemical study and atomic force microscopy imaging. <i>Electrochimica Acta</i> , 2008, 53, 4907-4919.	2.6	16
47	Tyrosinase biosensor based on a boron-doped diamond electrode modified with a polyaniline-poly(vinyl sulfonate) composite film. <i>Mikrochimica Acta</i> , 2010, 170, 267-273.	2.5	16
48	Synthesis and Characterization of Sulfonated Polyanilines and Application in Construction of a Diazinon Biosensor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2011, 60, 469-489.	1.8	16
49	Constitution of novel polyamic acid/polypyrrole composite films by in-situ electropolymerization. <i>Electrochimica Acta</i> , 2014, 128, 439-447.	2.6	16
50	High efficiency electrochemiluminescence from polyaniline:ruthenium metal complex films. <i>Electrochemistry Communications</i> , 2014, 48, 95-98.	2.3	15
51	Bioaccumulation of total mercury in the earthworm <i>Eisenia andrei</i> . <i>SpringerPlus</i> , 2016, 5, 681.	1.2	15
52	Electrochemical Polymerization. <i>Polymers and Polymeric Composites</i> , 2019, , 105-131.	0.6	15
53	Transition metal alloy-modulated lithium manganese oxide nanosystem for energy storage in lithium-ion battery cathodes. <i>Electrochimica Acta</i> , 2013, 101, 86-92.	2.6	14
54	Electrochemical Determination of Tyrosine using a Novel Tyrosinase Multi-Walled Carbon Nanotube (MWCNT) Polysulfone Modified Glassy Carbon Electrode (GCE). <i>Analytical Letters</i> , 2020, 53, 308-321.	1.0	14

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55	An Amperometric Cytochrome P450-2D6 Biosensor System for the Detection of the Selective Serotonin Reuptake Inhibitors (SSRIs) Paroxetine and Fluvoxamine. <i>Journal of Nano Research</i> , 2016, 44, 208-228.	0.8	12
56	AC voltammetric transductions and sensor application of a novel dendritic poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td 227, 320-327.	4.0	11
57	Polyamic acid (PAA) immobilized on glassy carbon electrode (GCE) as an electrochemical platform for the sensing of tuberculosis (TB) antibodies and hydrogen peroxide determination. <i>Analytical Letters</i> , 2020, 53, 1-20.	1.0	11
58	Polyester Sulphonic Acid Interstitial Nanocomposite Platform for Peroxide Biosensor. <i>Sensors</i> , 2009, 9, 9965-9976.	2.1	10
59	Highly sensitive gold-overoxidized polypyrrole nanocomposite immunosensor for antitransglutaminase antibody. <i>Journal of Bioactive and Compatible Polymers</i> , 2013, 28, 167-177.	0.8	10
60	Modulation of the matrix effect of nafion on tris(bipyridine) ruthenium(II) electrochemical probes by functionalisation with 4-nitrophenylazo graphene-gold nanocomposite. <i>Electrochimica Acta</i> , 2014, 128, 128-137.	2.6	10
61	A gallium telluride quantum dots bioelectrode system for human epidermal growth factor receptor-2 (Her2/neu) oncogene signalling. <i>Analytical Methods</i> , 2015, 7, 6114-6124.	1.3	10
62	Spectroelectrochemical Reactivities of Novel Polyaniline Nanotube Pesticide Biosensors. <i>Macromolecular Symposia</i> , 2007, 255, 36-49.	0.4	9
63	Overoxidized Polypyrrole Incorporated with Gold Nanoparticles as Platform for Impedimetric Anti-Transglutaminase Immunosensor. <i>Analytical Letters</i> , 2011, 44, 1956-1966.	1.0	9
64	Impedimetry and microscopy of electrosynthetic poly(propylene imine)-co-polypyrrole conducting dendrimeric star copolymers. <i>Electrochimica Acta</i> , 2014, 128, 448-457.	2.6	9
65	Supramolecular Amperometric Immunosensor for Detection of Human Chorionic Gonadotropin. <i>Electroanalysis</i> , 2014, 26, 1481-1487.	1.5	9
66	Impedimetric and electrochemical evaluation of a new redox active steroid derivative for hormone immunosensing. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111876.	5.3	9
67	Modulation of the interfacial electrochemistry of surfactant-functionalised polypyrrole chemical sensor systems. <i>Electrochimica Acta</i> , 2011, 56, 5214-5221.	2.6	8
68	Chemical Synthesis and Morphology of $\hat{I}^2\hat{a}^{\epsilon}$ “Naphthalene Sulfonic Acid”Doped Polypyrrole Micro/Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 49-55.	1.0	7
69	Development of Graphenated Polyamic Acid Sensors for Electroanalytical Detection of Anthracene. <i>Journal of Nano Research</i> , 0, 43, 11-22.	0.8	7
70	Polysulfone Hydrogel Nanocomposite Alkaline Phosphatase Biosensor for the Detection of Vanadium. <i>Electrocatalysis</i> , 2020, 11, 374-382.	1.5	7
71	Determination of mercury in selected polluted sediments using HPLC-ICP-MS in Westbank area, Western Cape, South Africa. <i>South African Journal of Chemistry</i> , 2016, 69, .	0.3	7
72	A Novel Polyaniline Nanocomposite with Doping Effects of Poly(Methyl Methacrylate) and TiO ₂ Nanoparticles. <i>Journal of Nano Research</i> , 0, 44, 281-292.	0.8	6

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73	Electrochemical Studies on Novel LiMnPO ₄ Coated with Magnesium Oxide-Gold Composite Thin Film in Aqueous Electrolytes. Journal of Nano Research, 2016, 44, 90-99.	0.8	6
74	Spectro-Electrochemical of Detection Anthracene at Electrodeposited Polyamic Acid Thin Films. Journal of Nano Research, 0, 44, 63-78.	0.8	6
75	Electropolymerization and spectroelectrochemical properties of poly(4,7-dithien-2-yl-2,1,3-benzothiadiazole) films in three 1-butyl-3-methylimidazolium ionic liquids. Materials Chemistry and Physics, 2016, 171, 57-62.	2.0	6
76	Electrochemical determination of phenothrin in fruit juices at graphene oxide-polypyrrole modified glassy carbon electrode. Sensing and Bio-Sensing Research, 2018, 21, 27-34.	2.2	6
77	Voltammetric and Impedimetric Detection of Norfloxacin at Co Nanoparticle Modified Polymer Composite Electrodes. Electroanalysis, 2020, 32, 3170-3179.	1.5	6
78	Electrochemical Evaluation of a Novel Boron Doped Diamond (BDD) Material for Application as Potential Electrochemical Capacitor. Analytical Letters, 2011, 44, 2005-2018.	1.0	5
79	Amplification of the discharge current density of lithium-ion batteries with spinel phase Li(PtAu)0.02Mn1.98O4 nano-materials. Electrochimica Acta, 2014, 128, 178-183.	2.6	5
80	Conductive Composite Biosensor System for Electrochemical Indinavir Drug Detection. Journal of Chemistry, 2015, 2015, 1-7.	0.9	5
81	Influence of Quantum Dot Surface on Electrochemical DNA Sensing Mechanism. ChemElectroChem, 2020, 7, 770-781.	1.7	5
82	Hydroxy-Iron/β-cyclodextrin-Film Amperometric Sensor for the Endocrine Disruptor Substance Bisphenol-A in an Aqueous Medium with Reduced Fouling Effects. Analytical Letters, 2011, 44, 2047-2060.	1.0	4
83	Optoelectronics of Stoichiometrically Controlled Palladium Telluride Quantum Dots. Journal of Nano Research, 0, 40, 29-45.	0.8	4
84	Photoluminescence quenching of poly(octylfluorenylbenzothiadiazole) luminophore by n-type cobalt(II) salicylaldimine metallodendrimer. Synthetic Metals, 2016, 220, 114-122.	2.1	4
85	Molecularly imprinted polypyrrole sensors for the detection of pyrene in aqueous solutions. Electroanalysis, 2021, 12, 165-175.	1.5	4
86	Bimetallic Nanocomposites of Palladium (100) and Ruthenium for Electrooxidation of Ammonia. Journal of Nano Research, 2016, 44, 100-113.	0.8	3
87	Iron-Gold Coated-LiMn ₂ X ₄ ; Nanowire High Power Cathode System Probed by Spectroscopic and Microstructural Analysis. Journal of Nano Research, 0, 44, 10-20.	0.8	3
88	Tin Selenide Quantum Dots Electrochemical Biotransducer for the Determination of Indinavir - A Protease Inhibitor Anti-Retroviral Drug. Journal of Nano Research, 2016, 44, 196-207.	0.8	3
89	Cytochrome P450-3A4/Copper-Poly(Propylene Imine)-Polypyrrole Star Co-Polymer Nanobiosensor System for Delavirdine - A Non-Nucleoside Reverse Transcriptase Inhibitor HIV Drug. Journal of Nano Research, 0, 44, 265-280.	0.8	3
90	Electrochemical Polymerization. Polymers and Polymeric Composites, 2019, , 1-28.	0.6	3

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91	Palladium-Gold Nanoalloy Surface Modified LiMn ₂ O ₄ Cathode for Enhanced Li-Ion Battery. Journal of Nanomaterials, 2015, 2015, 1-6.	1.5	2
92	Electrochemical Ultra-Low Detection of Isoniazid Using a Salicylaldamine Functionalised G1-DAB-(NH ₂) ₄ Dendritic Sensor vs. UV-VIS Spectrophotometric Detection. Journal of Nano Research, 0, 45, 164-174.	0.8	2
93	Tin Selenide Quantum Dots Electrochemical Biotransducer for the Determination of Indinavir - A Protease Inhibitor Anti-Retroviral Drug. Journal of Nano Research, 2017, 45, 12-24.	0.8	2
94	Poly (phenazine 2,3-diimino(pyrrole-2-yl)) as Redox Stimulated Actuator Material for Selected Organic Dyes. Journal of the Electrochemical Society, 2017, 164, B785-B791.	1.3	2
95	Conducting Polymers and Composites. Polymers and Polymeric Composites, 2019, , 551-604.	0.6	2
96	Electrochemical application of cobalt nanoparticles-polypyrrole composite modified electrode for the determination of phoxim. Analytica Chimica Acta: X, 2021, 9, 100077.	2.8	2
97	Polypyrrole Derivatives in the Design of Electrochemically Driven Actuators. Mini-Reviews in Organic Chemistry, 2015, 12, 414-423.	0.6	2
98	Synthesis and Characterization of Polysulfone Hydrogels. Journal of Surface Engineered Materials and Advanced Technology, 2014, 04, 227-236.	0.2	2
99	Spectroscopy, Morphology, and Electrochemistry of Electrospun Polyamic Acid Nanofibers. Frontiers in Chemistry, 2021, 9, 782813.	1.8	2
100	Amperometric Hydrogen Peroxide Sensors with Multivalent Metal Oxide-Modified Electrodes for Biomedical Analysis. IFMBE Proceedings, 2009, , 829-833.	0.2	1
101	Electrochemical and Spectroscopic Dynamics of Nanostructured Polynuclear Sulphonic Acid-Doped Poly(2, 5-dimethoxyaniline). Materials Science Forum, 2010, 657, 231-248.	0.3	1
102	New Generation Nanoelectrochemical Biosensors for Disease Biomarkers: 1. Indium Telluride Quantum Dots Signaling of Telomerase Cancer Biomarker. Journal of Nanoscience and Nanotechnology, 2016, 16, 12844-12850.	0.9	1
103	Electrochemical Transduction at Modified Boron Doped Diamond Interfaces. Journal of Nano Research, 2016, 44, 51-62.	0.8	1
104	Sensory Properties of Polysulfone Hydrogel for Electro-Analytical Profiling of Vanadium and Selenium in Aqueous Solutions. Journal of Nano Research, 2016, 44, 142-157.	0.8	1
105	Conducting Polymers and Composites. Polymers and Polymeric Composites, 2018, , 1-54.	0.6	1
106	Spectroscopic and microscopic evaluation of immobilized cytochrome c interaction with cyanide/arsenic ligands in quantitative analysis. Surface Engineering and Applied Electrochemistry, 2014, 50, 427-436.	0.3	0
107	Synthesis and Characterization of Green Tea Stabilized Iron Nanocatalysts for Bryothymol Blue (BTB) Degradation. Journal of Nano Research, 2016, 42, 1-13.	0.8	0
108	Gallium-Induced Perturbation of Zinc Selenide Quantum Dots Electronics. ChemistrySelect, 2017, 2, 7054-7062.	0.7	0

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109	Earth Abundant Metals as Cost Effective Alternatives in Photocatalytic Applications: A Review. Advanced Materials Research, 0, 1158, 133-146.	0.3	0