

Priscilla Baker

List of Publications by Year in descending order

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109
papers

2,337
citations

201674
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111
all docs

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docs citations

111
times ranked

3102
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecularly imprinted polypyrrole sensors for the detection of pyrene in aqueous solutions. <i>Electrocatalysis</i> , 2021, 12, 165-175.	3.0	4
2	Electrochemical application of cobalt nanoparticles-polypyrrole composite modified electrode for the determination of phoxim. <i>Analytica Chimica Acta: X</i> , 2021, 9, 100077.	1.0	2
3	Spectroscopy, Morphology, and Electrochemistry of Electrospun Polyamic Acid Nanofibers. <i>Frontiers in Chemistry</i> , 2021, 9, 782813.	3.6	2
4	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.	1.8	14
5	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.	1.8	11
6	Impedimetric and electrochemical evaluation of a new redox active steroid derivative for hormone immunosensing. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111876.	10.1	9
7	Voltammetric and Impedimetric Detection of Norfloxacin at Co Nanoparticle Modified Polymer Composite Electrodes. <i>Electroanalysis</i> , 2020, 32, 3170-3179.	2.9	6
8	Influence of Quantum Dot Surface on Electrochemical DNA Sensing Mechanism. <i>ChemElectroChem</i> , 2020, 7, 770-781.	3.4	5
9	Polysulfone Hydrogel Nanocomposite Alkaline Phosphatase Biosensor for the Detection of Vanadium. <i>Electrocatalysis</i> , 2020, 11, 374-382.	3.0	7
10	Electrochemical Polymerization. <i>Polymers and Polymeric Composites</i> , 2019, , 105-131.	0.6	15
11	Conducting Polymers and Composites. <i>Polymers and Polymeric Composites</i> , 2019, , 551-604.	0.6	2
12	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.	2.9	38
13	Electrochemical Polymerization. <i>Polymers and Polymeric Composites</i> , 2019, , 1-28.	0.6	3
14	Electrochemical determination of phenothrin in fruit juices at graphene oxide-polypyrrole modified glassy carbon electrode. <i>Sensing and Bio-Sensing Research</i> , 2018, 21, 27-34.	4.2	6
15	Conducting Polymers and Composites. <i>Polymers and Polymeric Composites</i> , 2018, , 1-54.	0.6	1
16	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.	2.5	21
17	Electrochemical Determination of Neomycin and Norfloxacin at a Novel Polymer Nanocomposite Electrode in Aqueous Solution. <i>Analytical Letters</i> , 2017, 50, 1887-1896.	1.8	25
18	Tin Selenide Quantum Dots Electrochemical Biotransducer for the Determination of Indinavir - A Protease Inhibitor Anti-Retroviral Drug. <i>Journal of Nano Research</i> , 2017, 45, 12-24.	0.8	2

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19	Gallium-Induced Perturbation of Zinc Selenide Quantum Dots Electronics. ChemistrySelect, 2017, 2, 7054-7062.	1.5	0
20	Sensitive electrochemical determination of epinephrine at poly(L-aspartic acid)/electro-chemically reduced graphene oxide modified electrode by square wave voltammetry in pharmaceuticals. Journal of Electroanalytical Chemistry, 2017, 807, 145-153.	3.8	48
21	Synthesis and electrochemical characterization of nanostructured magnetic molecularly imprinted polymers for 17- β -Estradiol determination. Sensors and Actuators B: Chemical, 2017, 241, 698-705.	7.8	111
22	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.	2.9	2
23	Complexation-Based Detection of Nickel(II) at a Graphene-Chelate Probe in the Presence of Cobalt and Zinc by Adsorptive Stripping Voltammetry. Sensors, 2017, 17, 1711.	3.8	30
24	Label Free Poly(2,5-dimethoxyaniline)-Multi-Walled Carbon Nanotubes Impedimetric Immunosensor for Fumonisin B1 Detection. Materials, 2016, 9, 273.	2.9	19
25	Electrochemical Aptasensor Responses on Nanocomposites Containing Electro-Deposited Silver Nanoparticles on Poly(Propyleneimine) Dendrimer for the Detection of Microcystin-LR in Freshwater. Sensors, 2016, 16, 1901.	3.8	28
26	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
27	Environmental remediation of heavy metal ions from aqueous solution through hydrogel adsorption: a critical review. Water Science and Technology, 2016, 73, 983-992.	2.5	110
28	Photoluminescence quenching of poly(octylfluorenylbenzothiadiazole) luminophore by n-type cobalt(II) salicylaldimine metallodendrimer. Synthetic Metals, 2016, 220, 114-122.	3.9	4
29	Bimetallic Nanocomposites of Palladium (100) and Ruthenium for Electrooxidation of Ammonia. Journal of Nano Research, 2016, 44, 100-113.	0.8	3
30	Bioaccumulation of total mercury in the earthworm Eisenia andrei. SpringerPlus, 2016, 5, 681.	1.2	15
31	Synthesis and Characterization of Green Tea Stabilized Iron Nanocatalysts for Bromothymol Blue (BTB) Degradation. Journal of Nano Research, 2016, 42, 1-13.	0.8	0
32	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
33	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
34	An Amperometric Cytochrome P450-2D6 Biosensor System for the Detection of the Selective Serotonin Reuptake Inhibitors (SSRIs) Paroxetine and Fluvoxamine. Journal of Nano Research, 2016, 44, 208-228.	0.8	12
35	Electrochemical Transduction at Modified Boron Doped Diamond Interfaces. Journal of Nano Research, 2016, 44, 51-62.	0.8	1
36	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

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37	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.	4.0	6
38	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.	7.8	11
39	Non-enzymatic polyamic acid sensors for hydrogen peroxide detection. Sensors and Actuators B: Chemical, 2016, 226, 525-533.	7.8	39
40	Determination of mercury in selected polluted sediments using HPLC-ICP-MS in Westbank area, Western Cape, South Africa. South African Journal of Chemistry, 2016, 69, .	0.6	7
41	Aptameric Recognition-Modulated Electroactivity of Poly(4-Styrenesulfonic Acid)-Doped Polyaniline Films for Single-Shot Detection of Tetrodotoxin. Sensors, 2015, 15, 22547-22560.	3.8	24
42	Conductive Composite Biosensor System for Electrochemical Indinavir Drug Detection. Journal of Chemistry, 2015, 2015, 1-7.	1.9	5
43	Palladium-Gold Nanoalloy Surface Modified LiMnO_2 Cathode for Enhanced Li-Ion Battery. Journal of Nanomaterials, 2015, 2015, 1-6.	2.7	2
44	A gallium telluride quantum dots bioelectrode system for human epidermal growth factor receptor-2 (Her2/neu) oncogene signalling. Analytical Methods, 2015, 7, 6114-6124.	2.7	10
45	A Fumonisin Immunosenor Based on Polyanilino-Carbon Nanotubes Doped with Palladium Telluride Quantum Dots. Sensors, 2015, 15, 529-546.	3.8	25
46	Application on Gold Nanoparticles-Dotted 4-Nitrophenylazo Graphene in a Label-Free Impedimetric Deoxynivalenol Immunosenor. Sensors, 2015, 15, 3854-3871.	3.8	37
47	Polypyrrole Derivatives in the Design of Electrochemically Driven Actuators. Mini-Reviews in Organic Chemistry, 2015, 12, 414-423.	1.3	2
48	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.	0.8	0
49	Polysulfone Nanocomposite Membranes with improved hydrophilicity. Electrochimica Acta, 2014, 128, 326-335.	5.2	31
50	Graphenated polyaniline-doped tungsten oxide nanocomposite sensor for real time determination of phenanthrene. Electrochimica Acta, 2014, 128, 138-148.	5.2	39
51	Graphenated tantalum(IV) oxide and poly(4-styrene sulphonate)-doped polyaniline nanocomposite as cathode material in an electrochemical capacitor. Electrochimica Acta, 2014, 128, 226-237.	5.2	18
52	Chemically amplified cytochrome P450-2E1 drug metabolism nanobiosensor for rifampicin anti-tuberculosis drug. Electrochimica Acta, 2014, 128, 149-155.	5.2	24
53	Impedimetry and microscopy of electrosynthetic poly(propylene imine)-co-polypyrrole conducting dendrimeric star copolymers. Electrochimica Acta, 2014, 128, 448-457.	5.2	9
54	High efficiency electrochemiluminescence from polyaniline:ruthenium metal complex films. Electrochemistry Communications, 2014, 48, 95-98.	4.7	15

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55	Electro-oxidation of anthracene on polyanilino-graphene composite electrode. Sensors and Actuators B: Chemical, 2014, 205, 184-192.	7.8	35
56	Supramolecular Amperometric Immunosensor for Detection of Human Chorionic Gonadotropin. Electroanalysis, 2014, 26, 1481-1487.	2.9	9
57	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.	5.2	5
58	Modulation of the matrix effect of nafion on tris(bipyridine) ruthenium(II) electrochemical probes by functionalisation with 4-nitrophenylazo graphene-gold nanocomposite. Electrochimica Acta, 2014, 128, 128-137.	5.2	10
59	Constitution of novel polyamic acid/polypyrrole composite films by in-situ electropolymerization. Electrochimica Acta, 2014, 128, 439-447.	5.2	16
60	Synthesis and Characterization of Polysulfone Hydrogels. Journal of Surface Engineered Materials and Advanced Technology, 2014, 04, 227-236.	0.2	2
61	Highly sensitive gold-overoxidized polypyrrole nanocomposite immunosensor for antitransglutaminase antibody. Journal of Bioactive and Compatible Polymers, 2013, 28, 167-177.	2.1	10
62	Transition metal alloy-modulated lithium manganese oxide nanosystem for energy storage in lithium-ion battery cathodes. Electrochimica Acta, 2013, 101, 86-92.	5.2	14
63	Conducting polyamic acid membranes for sensing and site-directed immobilization of proteins. Analytical Biochemistry, 2012, 428, 54-63.	2.4	24
64	Cytochrome c biosensor for determination of trace levels of cyanide and arsenic compounds. Analytica Chimica Acta, 2012, 730, 49-59.	5.4	53
65	Electrochemical Evaluation of a Novel Boron Doped Diamond (BDD) Material for Application as Potential Electrochemical Capacitor. Analytical Letters, 2011, 44, 2005-2018.	1.8	5
66	Overoxidized Polypyrrole Incorporated with Gold Nanoparticles as Platform for Impedimetric Anti-Transglutaminase Immunosensor. Analytical Letters, 2011, 44, 1956-1966.	1.8	9
67	Electrochemical Ochratoxin A Immunosensor System Developed on Sulfonated Polyaniline. Electroanalysis, 2011, 23, 122-128.	2.9	24
68	Modulation of the interfacial electrochemistry of surfactant-functionalised polypyrrole chemical sensor systems. Electrochimica Acta, 2011, 56, 5214-5221.	5.2	8
69	Synthesis and characterization of poly(propylene imine) dendrimer " Polypyrrole conducting star copolymer. Journal of Electroanalytical Chemistry, 2011, 652, 18-25.	3.8	19
70	3-Mercaptopropionic acid capped ZnSe quantum dot-cytochrome P450 3A4 enzyme biotransducer for 17 β -estradiol. Journal of Electroanalytical Chemistry, 2011, 653, 67-74.	3.8	28
71	Synthesis and Characterization of Sulfonated Polyanilines and Application in Construction of a Diazinon Biosensor. International Journal of Polymeric Materials and Polymeric Biomaterials, 2011, 60, 469-489.	3.4	16
72	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.	1.8	4

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73	Metallo-Graphene Nanocomposite Electrocatalytic Platform for the Determination of Toxic Metal Ions. <i>Sensors</i> , 2011, 11, 3970-3987.	3.8	131
74	Electrochemical nitrite nanosensor developed with amine- and sulphate-functionalised polystyrene latex beads self-assembled on polyaniline. <i>Electrochimica Acta</i> , 2010, 55, 4274-4280.	5.2	32
75	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.	3.8	36
76	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.	5.0	16
77	Ferrocenium hexafluorophosphate-induced nanofibrillarity of polyaniline-poly(vinyl sulfonate) electropolymer and application in an amperometric enzyme biosensor. <i>Electrochimica Acta</i> , 2010, 55, 4267-4273.	5.2	32
78	Electrochemical and spectroscopic properties of dendritic cobalto-salicylaldimine DNA biosensor. <i>Electrochimica Acta</i> , 2010, 55, 4296-4302.	5.2	25
79	Electrochemical and Spectroscopic Dynamics of Nanostructured Polynuclear Sulphonic Acid-Doped Poly(2, 5-dimethoxyaniline). <i>Materials Science Forum</i> , 2010, 657, 231-248.	0.3	1
80	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.	3.8	128
81	Determination of Anthracene on Ag-Au Alloy Nanoparticles/Overoxidized-Polypyrrole Composite Modified Glassy Carbon Electrodes. <i>Sensors</i> , 2010, 10, 9449-9465.	3.8	62
82	Amperometric Hydrogen Peroxide Sensors with Multivalent Metal Oxide-Modified Electrodes for Biomedical Analysis. <i>IFMBE Proceedings</i> , 2009, , 829-833.	0.3	1
83	Polyester Sulphonic Acid Interstitial Nanocomposite Platform for Peroxide Biosensor. <i>Sensors</i> , 2009, 9, 9965-9976.	3.8	10
84	Novel therapeutic biosensor for indinavir-A protease inhibitor antiretroviral drug. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 498-501.	2.8	25
85	Electrochemical detection of glyphosate herbicide using horseradish peroxidase immobilized on sulfonated polymer matrix. <i>Bioelectrochemistry</i> , 2009, 75, 117-123.	4.6	94
86	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.	5.2	39
87	Amperometric nanobiosensor for quantitative determination of glyphosate and glufosinate residues in corn samples. <i>Pure and Applied Chemistry</i> , 2009, 81, 123-139.	1.9	37
88	Synthesis and Characterization of Novel Nanophase Hexagonal Poly(2,5-dimethoxyaniline). <i>Electroanalysis</i> , 2008, 20, 2347-2353.	2.9	19
89	Synthesis and characterization of poly (2-hydroxyethyl methacrylate)-polyaniline based hydrogel composites. <i>Reactive and Functional Polymers</i> , 2008, 68, 1239-1244.	4.1	44
90	Metallo-functionalized first-generation salicylaldimine poly(propylenimine) tetraamine dendrimers: Electrochemical study and atomic force microscopy imaging. <i>Electrochimica Acta</i> , 2008, 53, 4907-4919.	5.2	16

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91	Electrochemical Immunosensor Based on Polythionine/Gold Nanoparticles for the Determination of Aflatoxin B1. <i>Sensors</i> , 2008, 8, 8262-8274.	3.8	106
92	An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly(propyleneimine) Dendrimer. <i>Sensors</i> , 2008, 8, 6791-6809.	3.8	47
93	Synthesis, Characterisation of Novel Polyaniline Nanomaterials and Application in Amperometric Biosensors. <i>Macromolecular Symposia</i> , 2007, 255, 57-69.	0.7	35
94	Spectroelectrochemical Reactivities of Novel Polyaniline Nanotube Pesticide Biosensors. <i>Macromolecular Symposia</i> , 2007, 255, 36-49.	0.7	9
95	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.	1.5	37
96	Electrochemical Synthesis and Characterization of 1,2-Naphthaquinone-4-Sulfonic Acid Doped Polypyrrole. <i>Electroanalysis</i> , 2007, 19, 303-309.	2.9	16
97	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.	3.7	52
98	An electrochemical DNA biosensor developed on novel multinuclear nickel(II) salicylaldimine metallodendrimer platform. <i>Electrochimica Acta</i> , 2007, 53, 1689-1696.	5.2	36
99	Electrochemical Interrogation and Sensor Applications of Nanostructured Polypyrroles. <i>Electroanalysis</i> , 2006, 18, 2441-2450.	2.9	25
100	Polyaniline- ϵ -Mercaptobenzothiazole Biosensor for Organophosphate and Carbamate Pesticides. <i>Analytical Letters</i> , 2006, 39, 1683-1698.	1.8	25
101	Chemical Synthesis and Morphology of β -Naphthalene Sulfonic Acid-Doped Polypyrrole Micro/Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 49-55.	2.1	7
102	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
103	Optoelectronics of Stochiometrically Controlled Palladium Telluride Quantum Dots. <i>Journal of Nano Research</i> , 0, 40, 29-45.	0.8	4
104	Development of Graphenated Polyamic Acid Sensors for Electroanalytical Detection of Anthracene. <i>Journal of Nano Research</i> , 0, 43, 11-22.	0.8	7
105	Iron-Gold Coated- LiMnO_2 Nanowire High Power Cathode System Probed by Spectroscopic and Microstructural Analysis. <i>Journal of Nano Research</i> , 0, 44, 10-20.	0.8	3
106	Spectro-Electrochemical of Detection Anthracene at Electrodeposited Polyamic Acid Thin Films. <i>Journal of Nano Research</i> , 0, 44, 63-78.	0.8	6
107	Cytochrome P450-3A4/Copper-Poly(Propylene Imine)-Polypyrrole Star Co-Polymer Nanobiosensor System for Delavirdine - A Non-Nucleoside Reverse Transcriptase Inhibitor HIV Drug. <i>Journal of Nano Research</i> , 0, 44, 265-280.	0.8	3
108	Electrochemical Ultra-Low Detection of Isoniazid Using a Salicylaldamine Functionalised G1-DAB-(NH $_2$) $_4$ Dendritic Sensor vs. UV-VIS Spectrophotometric Detection. <i>Journal of Nano Research</i> , 0, 45, 164-174.	0.8	2

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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