Yoon-Bo Shim, ì<¬ìœ¤ë³′

List of Publications by Year in descending order

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272 papers

11,921 citations

61 h-index 95 g-index

275 all docs

275 docs citations

times ranked

275

11560 citing authors

#	Article	IF	CITATIONS
1	Electrochemical Sensors Based on Organic Conjugated Polymers. Sensors, 2008, 8, 118-141.	3.8	395
2	Applications of conducting polymer composites to electrochemical sensors: A review. Applied Materials Today, 2017, 9, 419-433.	4.3	394
3	Conducting polymer-based electrochemical biosensors for neurotransmitters: A review. Biosensors and Bioelectronics, 2018, 102, 540-552.	10.1	292
4	Ultrasensitive and Selective Electrochemical Diagnosis of Breast Cancer Based on a Hydrazine–Au Nanoparticle–Aptamer Bioconjugate. Analytical Chemistry, 2013, 85, 1058-1064.	6.5	277
5	Electrochemistry of Conductive Polymers VIII: In Situ Spectroelectrochemical Studies of Polyaniline Growth Mechanisms. Journal of the Electrochemical Society, 1990, 137, 538-544.	2.9	235
6	Direct DNA Hybridization Detection Based on the Oligonucleotide-Functionalized Conductive Polymer. Analytical Chemistry, 2001, 73, 5629-5632.	6.5	229
7	Label-free detection of kanamycin based on the aptamer-functionalized conducting polymer/gold nanocomposite. Biosensors and Bioelectronics, 2012, 36, 29-34.	10.1	215
8	Disposable amperometric immunosensor system for rabbit IgG using a conducting polymer modified screen-printed electrode. Biosensors and Bioelectronics, 2003, 18, 773-780.	10.1	191
9	Comparison of enzymatic and non-enzymatic glucose sensors based on hierarchical Au-Ni alloy with conductive polymer. Biosensors and Bioelectronics, 2019, 130, 48-54.	10.1	181
10	Characterization of an EDTA Bonded Conducting Polymer Modified Electrode:Â lts Application for the Simultaneous Determination of Heavy Metal Ions. Analytical Chemistry, 2003, 75, 1123-1129.	6.5	180
11	Functionalized Conducting Polymer as an Enzyme-Immobilizing Substrate:Â An Amperometric Glutamate Microbiosensor for in Vivo Measurements. Analytical Chemistry, 2005, 77, 4854-4860.	6.5	165
12	Template Free Preparation of Heteroatoms Doped Carbon Spheres with Trace Fe for Efficient Oxygen Reduction Reaction and Supercapacitor. Advanced Energy Materials, 2017, 7, 1602002.	19.5	160
13	Direct electrochemistry of horseradish peroxidase bonded on a conducting polymer modified glassy carbon electrode. Biosensors and Bioelectronics, 2003, 19, 227-232.	10.1	157
14	Application of a Cu–Co alloy dendrite on glucose and hydrogen peroxide sensors. Electrochimica Acta, 2012, 61, 36-43.	5.2	156
15	Gold Nanoparticles Doped Conducting Polymer Nanorod Electrodes: Ferrocene Catalyzed Aptamer-Based Thrombin Immunosensor. Analytical Chemistry, 2009, 81, 6604-6611.	6.5	155
16	Simultaneous determination of ascorbic acid, dopamine, uric acid and folic acid based on activated graphene/MWCNT nanocomposite loaded Au nanoclusters. Sensors and Actuators B: Chemical, 2015, 221, 659-665.	7.8	146
17	Detection of daunomycin using phosphatidylserine and aptamer co-immobilized on Au nanoparticles deposited conducting polymer. Biosensors and Bioelectronics, 2011, 26, 4442-4449.	10.1	137
18	Direct Electrochemistry of Laccase Immobilized on Au Nanoparticles Encapsulated-Dendrimer Bonded Conducting Polymer: Application for a Catechin Sensor. Analytical Chemistry, 2008, 80, 8020-8027.	6.5	136

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19	A sensor for acetaminophen in a blood medium using a Cu(II)-conducting polymer complex modified electrode. Analytica Chimica Acta, 2004, 512, 191-197.	5.4	127
20	The biosensor based on the pyruvate oxidase modified conducting polymer for phosphate ions determinations. Biosensors and Bioelectronics, 2006, 21, 1116-1124.	10.1	126
21	A lactate biosensor based on lactate dehydrogenase/nictotinamide adenine dinucleotide (oxidized) Tj ETQq1 1 0. Biochemistry, 2009, 384, 159-165.).784314 r _į 2.4	rgBT /Overlo <mark>ck</mark> 121
22	Nanozyme-based electrochemical biosensors for disease biomarker detection. Analyst, The, 2020, 145, 4398-4420.	3.5	121
23	A potentiometric non-enzymatic glucose sensor using a molecularly imprinted layer bonded on a conducting polymer. Biosensors and Bioelectronics, 2017, 91, 276-283.	10.1	118
24	Graphene/conducting polymer nano-composite loaded screen printed carbon sensor for simultaneous determination of dopamine and 5-hydroxytryptamine. Sensors and Actuators B: Chemical, 2017, 239, 993-1002.	7.8	117
25	An impedimetric immunosensor for the label-free detection of bisphenol A. Biosensors and Bioelectronics, 2007, 22, 2464-2470.	10.1	111
26	Trace Analysis of DNA:Â Preconcentration, Separation, and Electrochemical Detection in Microchip Electrophoresis Using Au Nanoparticles. Analytical Chemistry, 2007, 79, 3724-3733.	6.5	107
27	Preparation of Dendritic Copper Nanostructures and Their Characterization for Electroreduction. Journal of Physical Chemistry C, 2009, 113, 15891-15896.	3.1	106
28	A simple and direct electrochemical detection of interferon- \hat{l}^3 using its RNA and DNA aptamers. Biosensors and Bioelectronics, 2008, 23, 1819-1824.	10.1	101
29	Highly sensitive amperometric detection of cardiac troponin I using sandwich aptamers and screen-printed carbon electrodes. Talanta, 2017, 165, 442-448.	5 . 5	99
30	An amperometric chloramphenicol immunosensor based on cadmium sulfide nanoparticles modified-dendrimer bonded conducting polymer. Biosensors and Bioelectronics, 2010, 25, 1781-1788.	10.1	98
31	Development of an immunosensor for the detection of vitellogenin using impedance spectroscopy. Biosensors and Bioelectronics, 2004, 19, 1245-1252.	10.1	96
32	A highly sensitive aptasensor towards Plasmodium lactate dehydrogenase for the diagnosis of malaria. Biosensors and Bioelectronics, 2012, 35, 291-296.	10.1	91
33	Cancer cell detection based on the interaction between an anticancer drug and cell membrane components. Chemical Communications, 2013, 49, 1900.	4.1	87
34	Dealloyed AuNi Dendrite Anchored on a Functionalized Conducting Polymer for Improved Catalytic Oxygen Reduction and Hydrogen Peroxide Sensing in Living Cells. Advanced Functional Materials, 2016, 26, 1590-1601.	14.9	85
35	Hydrazine-Catalyzed Ultrasensitive Detection of DNA and Proteins. Analytical Chemistry, 2007, 79, 6886-6890.	6.5	80
36	Immunosensors for detection of Annexin II and MUC5AC for early diagnosis of lung cancer. Biosensors and Bioelectronics, 2009, 25, 456-462.	10.1	80

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37	Ultrasensitive detection of drug resistant cancer cells in biological matrixes using an amperometric nanobiosensor. Biosensors and Bioelectronics, 2015, 70, 418-425.	10.1	78
38	Investigation on the downregulation of dopamine by acetaminophen administration based on their simultaneous determination in urine. Biosensors and Bioelectronics, 2013, 39, 139-144.	10.1	77
39	Continuous glucose monitoring using a microneedle array sensor coupled with a wireless signal transmitter. Sensors and Actuators B: Chemical, 2019, 281, 14-21.	7.8	76
40	An amperometric nanobiosensor for the selective detection of K+-induced dopamine released from living cells. Biosensors and Bioelectronics, 2015, 68, 421-428.	10.1	74
41	Electropolymerized Self-Assembled Layer on Gold Nanoparticles: Detection of Inducible Nitric Oxide Synthase in Neuronal Cell Culture. Analytical Chemistry, 2011, 83, 6177-6183.	6.5	72
42	Amplification strategy based on gold nanoparticle-decorated carbon nanotubes for neomycin immunosensors. Biosensors and Bioelectronics, 2010, 26, 1002-1008.	10.1	71
43	Au decorated core-shell structured Au@Pt for the glucose oxidation reaction. Sensors and Actuators B: Chemical, 2019, 278, 88-96.	7.8	71
44	A performance comparison of choline biosensors: anodic or cathodic detections of H2O2 generated by enzyme immobilized on a conducting polymer. Biosensors and Bioelectronics, 2004, 19, 1565-1571.	10.1	70
45	Microwaveâ€Assisted Oneâ€Pot Synthesis of Metalâ€Free Nitrogen and Phosphorus Dualâ€Doped Nanocarbon for Electrocatalysis and Cell Imaging. Particle and Particle Systems Characterization, 2013, 30, 557-564.	2.3	70
46	An amperometric nanobiosensor using a biocompatible conjugate for early detection of metastatic cancer cells in biological fluid. Biosensors and Bioelectronics, 2016, 85, 883-890.	10.1	70
47	A selective glucose sensor based on direct oxidation on a bimetal catalyst with a molecular imprinted polymer. Biosensors and Bioelectronics, 2018, 99, 471-478.	10.1	69
48	Magnetic force assisted electrochemical sensor for the detection of thrombin with aptamer-antibody sandwich formation. Biosensors and Bioelectronics, 2018, 117, 480-486.	10.1	69
49	Electrochromic and electrochemical properties of 3-pyridinyl and 1,10-phenanthroline bearing poly(2,5-di(2-thienyl)-1H-pyrrole) derivatives. Solar Energy Materials and Solar Cells, 2010, 94, 1286-1292.	6.2	68
50	Electron-Transfer Mediator for a NAD-Glucose Dehydrogenase-Based Glucose Sensor. Analytical Chemistry, 2013, 85, 11643-11649.	6.5	68
51	Electrochemical Characterization of Poly(1,8â€diaminonaphthalene): A Functionalized Polymer. Journal of the Electrochemical Society, 1992, 139, 3507-3514.	2.9	67
52	Disposable Amperometric Glycated Hemoglobin Sensor for the Finger Prick Blood Test. Analytical Chemistry, 2013, 85, 6536-6543.	6.5	67
53	Disposable all-solid-state pH and glucose sensors based on conductive polymer covered hierarchical AuZn oxide. Biosensors and Bioelectronics, 2016, 79, 165-172.	10.1	67
54	A disposable amperometric dual-sensor for the detection of hemoglobin and glycated hemoglobin in a finger prick blood sample. Biosensors and Bioelectronics, 2017, 91, 128-135.	10.1	67

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55	Degradation of Electrochemically Prepared Polypyrrole in Aqueous Sulfuric Acid. Journal of the Electrochemical Society, 1993, 140, 609-614.	2.9	66
56	InÂvivo detection of glutathione disulfide and oxidative stress monitoring using a biosensor. Biomaterials, 2012, 33, 2600-2607.	11.4	66
57	A review on determination of steroids in biological samples exploiting nanobio-electroanalytical methods. Analytica Chimica Acta, 2013, 762, 14-24.	5.4	65
58	Simultaneous electrochemical detection of both PSMA (+) and PSMA (â^') prostate cancer cells using an RNA/peptide dual-aptamer probe. Chemical Communications, 2010, 46, 5566.	4.1	64
59	Ultrasensitive cytosensing based on an aptamer modified nanobiosensor with a bioconjugate: Detection of human non-small-cell lung cancer cells. Biosensors and Bioelectronics, 2015, 74, 594-600.	10.1	64
60	A sensitive and reliable quantification method for Bisphenol A based on modified competitive ELISA method. Chemosphere, 2007, 68, 1204-1209.	8.2	63
61	Ultrasensitive dual probe immunosensor for the monitoring of nicotine induced-brain derived neurotrophic factor released from cancer cells. Biosensors and Bioelectronics, 2018, 116, 108-115.	10.1	63
62	Electrochemistry of conductive polymers VII. Autocatalytic rate constant for polyaniline growth. Synthetic Metals, 1989, 29, 169-174.	3.9	62
63	Selective determination of dopamine with a cibacron blue/poly-1,5-diaminonaphthalene composite film. Analytica Chimica Acta, 2009, 650, 247-253.	5 . 4	62
64	A separation-free amperometric immunosensor for vitellogenin based on screen-printed carbon arrays modified with a conductive polymer. Biosensors and Bioelectronics, 2005, 20, 1780-1787.	10.1	61
65	A cytochrome c modified-conducting polymer microelectrode for monitoring in vivo changes in nitric oxide. Biosensors and Bioelectronics, 2008, 23, 1374-1381.	10.1	61
66	Separation and simultaneous detection of anticancer drugs in a microfluidic device with an amperometric biosensor. Biosensors and Bioelectronics, 2011, 28, 326-332.	10.1	61
67	Simple preparation of terthiophene-3′-carboxylic acid and characterization of its polymer. Synthetic Metals, 2002, 126, 105-110.	3.9	60
68	Direct Analysis of Trace Phenolics with a Microchip:Â In-Channel Sample Preconcentration, Separation, and Electrochemical Detection. Analytical Chemistry, 2006, 78, 6809-6817.	6.5	60
69	An amperometric bilirubin biosensor based on a conductive poly-terthiophene–Mn(II) complex. Biosensors and Bioelectronics, 2008, 23, 857-864.	10.1	59
70	Nonenzymatic H2O2 sensing based on silver nanoparticles capped polyterthiophene/MWCNT nanocomposite. Sensors and Actuators B: Chemical, 2014, 201, 51-58.	7.8	58
71	Detection of Nitric Oxide from Living Cells Using Polymeric Zinc Organic Frameworkâ€Derived Zinc Oxide Composite with Conducting Polymer. Small, 2017, 13, 1700502.	10.0	57
72	Spectroelectrochemical studies of p-benzoquinone reduction in aqueous media. Journal of Electroanalytical Chemistry, 1997, 425, 201-207.	3.8	56

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73	Electrophoretic analysis of food dyes using a miniaturized microfluidic system. Electrophoresis, 2008, 29, 1910-1917.	2.4	56
74	In vitro monitoring of i-NOS concentrations with an immunosensor: The inhibitory effect of endocrine disruptors on i-NOS release. Biosensors and Bioelectronics, 2012, 32, 278-282.	10.1	55
75	Labelâ€Free Detection of Bisphenol A Using a Potentiometric Immunosensor. Electroanalysis, 2008, 20, 30-37.	2.9	54
76	A disposable chronocoulometric sensor for heavy metal ions using a diaminoterthiophene-modified electrode doped with graphene oxide. Analytica Chimica Acta, 2015, 892, 77-84.	5 . 4	52
77	Lipid-bonded Conducting Polymer Layers for a Model Biomembrane:Â Application to Superoxide Biosensors. Analytical Chemistry, 2006, 78, 52-60.	6.5	51
78	A selective nitric oxide nanocomposite biosensor based on direct electron transfer of microperoxidase: Removal of interferences by co-immobilized enzymes. Biosensors and Bioelectronics, 2010, 26, 1080-1086.	10.1	50
79	Simultaneous analysis of nitrate and nitrite in a microfluidic device with a Cu-complex-modified electrode. Electrophoresis, 2006, 27, 4545-4554.	2.4	49
80	Electrochemical detection of mismatched DNA using a MutS probe. Nucleic Acids Research, 2006, 34, e75-e75.	14.5	49
81	Detection of norfloxacin and monitoring its effect on caffeine catabolism in urine samples. Biosensors and Bioelectronics, 2013, 47, 307-312.	10.1	49
82	Direct Electrochemistry of Cholesterol Oxidase Immobilized on a Conducting Polymer: Application for a Cholesterol Biosensor. Electroanalysis, 2010, 22, 21-25.	2.9	48
83	Electrochemical Detection of Peroxynitrite Using a Biosensor Based on a Conducting Polymerâ Manganese Ion Complex. Analytical Chemistry, 2010, 82, 10075-10082.	6.5	47
84	Simultaneous determination of lead, copper, and mercury at a modified carbon paste eletrode containing humic acid. Electroanalysis, 1994, 6, 887-893.	2.9	46
85	Xanthine Sensors Based on Anodic and Cathodic Detection of Enzymatically Generated Hydrogen Peroxide. Electroanalysis, 2007, 19, 631-637.	2.9	46
86	Degradation Kinetics of Polypyrrole Films. Journal of the Electrochemical Society, 1993, 140, 2749-2752.	2.9	44
87	A novel cobalt(II)-selective potentiometric sensor based on p-(4-n-butylphenylazo)calix[4]arene. Talanta, 2009, 77, 1057-1062.	5 . 5	44
88	Humidity Sensor Using Chemically Synthesized Poly(1,5-diaminonaphthalene) Doped with Carbon. Journal of the Electrochemical Society, 2000, 147, 381.	2.9	43
89	Simultaneous detection of antibacterial sulfonamides in a microfluidic device with amperometry. Biosensors and Bioelectronics, 2013, 39, 204-209.	10.1	43
90	Development of a bifunctional nanobiosensor for screening and detection of chemokine ligand in colorectal cancer cell line. Biosensors and Bioelectronics, 2018, 100, 396-403.	10.1	42

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91	MicroRNAs in ovarian cancer and recent advances in the development of microRNA-based biosensors. Analyst, The, 2020, 145, 2038-2057.	3.5	42
92	Selective nonenzymatic bilirubin detection in blood samples using a Nafion/Mn–Cu sensor. Biosensors and Bioelectronics, 2014, 61, 554-561.	10.1	41
93	Selective Electrochemical Analysis of Various Metal Ions at an EDTA Bonded Conducting Polymer Modified Electrode. Electroanalysis, 2004, 16, 1366-1370.	2.9	40
94	Microchip capillary electrophoresis with a cellulose-DNA-modified screen-printed electrode for the analysis of neurotransmitters. Electrophoresis, 2005, 26, 3043-3052.	2.4	40
95	Human hair-derived hollow carbon microfibers for electrochemical sensing. Carbon, 2016, 107, 872-877.	10.3	40
96	Detection of protein-DNA interaction with a DNA probe: distinction between single-strand and double-strand DNA-protein interaction. Nucleic Acids Research, 2004, 32, e110-e110.	14.5	39
97	An all-solid-state reference electrode based on the layer-by-layer polymer coating. Analyst, The, 2007, 132, 906.	3.5	39
98	Water Sensor for a Nonaqueous Solvent with Poly(1,5-diaminonapthalene) Nanofibers. Analytical Chemistry, 2008, 80, 5307-5311.	6.5	39
99	The electrochemical sensor for methanol detection using silicon epoxy coated platinum nanoparticles. Sensors and Actuators B: Chemical, 2012, 174, 45-50.	7.8	39
100	Detection of Ca2+-induced acetylcholine released from leukemic T-cells using an amperometric microfluidic sensor. Biosensors and Bioelectronics, 2017, 98, 364-370.	10.1	39
101	Cathodic properties of a lithium-ion secondary battery using LiCoO2 prepared by a complex formation reaction. Journal of Power Sources, 1998, 70, 70-77.	7.8	38
102	Voltammetric determination of the iodide ion with a quinine copper(II) complex modified carbon paste electrode. Journal of Electroanalytical Chemistry, 1999, 463, 16-23.	3.8	37
103	Stability and Sensitivity Enhanced Electrochemical In Vivo Superoxide Microbiosensor Based on Covalently Co-immobilized Lipid and CytochromeÂc. Analytical Chemistry, 2012, 84, 6654-6660.	6.5	36
104	Electrochemical characterization of newly synthesized polyterthiophene benzoate and its applications to an electrochromic device and a photovoltaic cell. Electrochimica Acta, 2012, 67, 201-207.	5.2	36
105	Effect of organic acids and nano-sized ceramic doping on PEO-based solid polymer electrolytes. Journal of Power Sources, 2006, 160, 674-680.	7.8	35
106	Facile potentiostatic preparation of functionalized polyterthiophene-anchored graphene oxide as a metal-free electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 5426-5433.	10.3	35
107	Synthesis, electrochemical, and spectroelectrochemical properties of conductive poly-[2,5-di-(2-thienyl)-1H-pyrrole-1-(p-benzoic acid)]. Synthetic Metals, 2010, 160, 413-418.	3.9	34
108	A Glucose Sensor Based on an Aminophenyl Boronic Acid Bonded Conducting Polymer. Electroanalysis, 2011, 23, 2036-2041.	2.9	34

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109	Simultaneous analysis of dopamine and 5-hydroxyindoleacetic acid at nanogold modified screen printed carbon electrodes. Sensors and Actuators B: Chemical, 2015, 213, 72-81.	7.8	34
110	Cocaine increases endoplasmic reticulum stress protein expression in striatal neurons. Neuroscience, 2007, 145, 621-630.	2.3	33
111	Triggering the redox reaction of cytochrome c on a biomimetic layer and elimination of interferences for NADH detection. Biomaterials, 2010, 31, 7827-7835.	11.4	33
112	A One-Step Continuous Synthesis of Carbon-Supported Pt Catalysts Using a Flame for the Preparation of the Fuel Electrode. Langmuir, 2010, 26, 11212-11216.	3.5	33
113	Electrochemical Detection of Hemoglobin: A Review. Electroanalysis, 2017, 29, 2190-2199.	2.9	33
114	Simultaneous Detection of Cd (II), Pb (II), Cu (II), and Hg (II) lons in Dye Waste Water Using a Boron Doped Diamond Electrode with DPASV. Bulletin of the Korean Chemical Society, 2010, 31, 140-145.	1.9	32
115	Development of a new and simple method for the detection of histidine-tagged proteins. Biosensors and Bioelectronics, 2004, 20, 857-863.	10.1	31
116	Detection of polymerase chain reaction fragments using a conducting polymer-modified screen-printed electrode in a microfluidic device. Electrophoresis, 2005, 26, 4656-4663.	2.4	31
117	Effect of additives in PEO/PAA/PMAA composite solid polymer electrolytes on the ionic conductivity and Li ion battery performance. Journal of Applied Electrochemistry, 2009, 39, 1573-1578.	2.9	31
118	Determination of Selenium with a Poly $(1,8-diamino-naphthalene)-Modified$ Electrode. Electroanalysis, 2005, 17, 1952-1958.	2.9	30
119	Repeated cocaine administration increases nitric oxide efflux in the rat dorsal striatum. Psychopharmacology, 2010, 208, 245-256.	3.1	30
120	Construction of right-handed-, left-handed-, and racemic helical coordination polymers. Enantioselective recognition using chiral helical crystals. Chemical Communications, 2013, 49, 4000.	4.1	30
121	Microfluidic neurotransmitters sensor in blood plasma with mediator-immobilized conducting polymer/N, S-doped porous carbon composite. Sensors and Actuators B: Chemical, 2020, 313, 128017.	7.8	30
122	The potential use of hydrazine as an alternative to peroxidase in a biosensor: comparison between hydrazine and HRP-based glucose sensors. Biosensors and Bioelectronics, 2005, 21, 257-265.	10.1	29
123	Characterization of Protein-Attached Conducting Polymer Monolayer. Langmuir, 2008, 24, 1087-1093.	3.5	29
124	An amperometric immunosensor for osteoproteogerin based on gold nanoparticles deposited conducting polymer. Biosensors and Bioelectronics, 2008, 23, 1595-1601.	10.1	28
125	Total analysis of endocrine disruptors in a microchip with gold nanoparticles. Electrophoresis, 2010, 31, 3053-3060.	2.4	28
126	Ag(I)-cysteamine complex based electrochemical stripping immunoassay: Ultrasensitive human IgG detection. Biosensors and Bioelectronics, 2011, 26, 4429-4435.	10.1	28

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127	Fabrication of disposable sensors for biomolecule detection using hydrazine electrocatalyst. Analytical Biochemistry, 2008, 379, 170-175.	2.4	27
128	Separation detection of different circulating tumor cells in the blood using an electrochemical microfluidic channel modified with a lipid-bonded conducting polymer. Biosensors and Bioelectronics, 2019, 146, 111746.	10.1	27
129	Electropolymerization and spectroelectrochemical characterization of poly(1,5-diaminonaphthalene). Synthetic Metals, 1995, 69, 561-562.	3.9	26
130	An all-solid-state monohydrogen phosphate sensor based on a macrocyclic ionophore. Talanta, 2010, 82, 1107-1112.	5 . 5	26
131	Catalytic activity of polymerized self-assembled artificial enzyme nanoparticles: applications to microfluidic channel-glucose biofuel cells and sensors. Journal of Materials Chemistry A, 2016, 4, 2720-2728.	10.3	26
132	Redox reaction of benzoquinone on a lipid coated glassy carbon electrode. Journal of Electroanalytical Chemistry, 1997, 438, 113-119.	3.8	25
133	An Amperometric Sensor for Hydrogen Peroxide Based on a (3-Mercaptopropyl)trimethoxysilane Self-Assembled Layer Containing Hydrazine. Electroanalysis, 2002, 14, 704.	2.9	25
134	A Simple Separation Method with a Microfluidic Channel Based on Alternating Current Potential Modulation. Analytical Chemistry, 2012, 84, 9738-9744.	6. 5	25
135	Nano-biosensor for the in vitro lactate detection using bi-functionalized conducting polymer/N, S-doped carbon; the effect of αCHC inhibitor on lactate level in cancer cell lines. Biosensors and Bioelectronics, 2020, 155, 112094.	10.1	25
136	Electrochemistry of conductive polymer X: Polyaniline-based potentiometric sensor for dissolved oxygen. Electroanalysis, 1991, 3, 31-36.	2.9	24
137	Electrochemical and in situ UV–visible spectroscopic behavior of cytochrome c at a cardiolipin-modified electrode. Journal of Electroanalytical Chemistry, 2001, 514, 67-74.	3.8	24
138	Determination of Cytochromeâ€C with Cellulose– DNA Modified Carbon Paste Electrodes. Electroanalysis, 2004, 16, 821-826.	2.9	24
139	Conjugated polymers and an iron complex as electrocatalytic materials for an enzyme-based biofuel cell. Biosensors and Bioelectronics, 2010, 25, 1735-1741.	10.1	24
140	Electrochemical Evaluation of Binding Affinity for Aptamer Selection Using the Microarray Chip. Electroanalysis, 2012, 24, 1057-1064.	2.9	24
141	Synthesis and physical properties of $\hat{l}\pm,\hat{l}$ %-bis[Co2(CO)6{ \hat{l} 4- \hat{l} -2: \hat{l} -2-C(R) \hat{l} 7-C}] oligothiophenes. Journal of Organometallic Chemistry, 2000, 599, 232-237.	1.8	23
142	Synthesis and Characterization of Regiosymmetric Poly(3,4-propylenedioxythiophene) Derivative. Molecular Crystals and Liquid Crystals, 2006, 444, 129-135.	0.9	23
143	Spectroelectrochemical and electrochromic behaviors of newly synthesized poly[3′-(2-aminopyrimidyl)-2,2′:5′,2″-terthiophene]. Electrochimica Acta, 2013, 104, 322-329.	5. 2	23
144	Pt-Nanoparticle Incorporated Carbon Paste Electrode for the Determination of Cu(II) Ion by Anodic Stripping Voltammetry. Electroanalysis, 2007, 19, 1160-1166.	2.9	22

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145	Electrophoretic total analysis of trace tetracycline antibiotics in a microchip with amperometry. Electrophoresis, 2009, 30, 3219-3227.	2.4	22
146	Comparison of solar cell performance of conducting polymer dyes with different functional groups. Journal of Power Sources, 2011, 196, 8874-8880.	7.8	22
147	Amperometric sensing of HIF1α expressed in cancer cells and the effect of hypoxic mimicking agents. Biosensors and Bioelectronics, 2016, 83, 312-318.	10.1	22
148	Longâ€ife Heavy Metal Ions Sensor Based on Graphene Oxideâ€anchored Conducting Polymer. Electroanalysis, 2017, 29, 514-520.	2.9	22
149	Separation detection of hemoglobin and glycated hemoglobin fractions in blood using the electrochemical microfluidic channel with a conductive polymer composite sensor. Biosensors and Bioelectronics, 2019, 142, 111515.	10.1	22
150	Hydrogen Evolution and Oxygen Reduction Reactions in Acidic Media Catalyzed by Pd ₄ S Decorated N/S Doped Carbon Derived from Pd Coordination Polymer. Small, 2021, 17, e2007511.	10.0	22
151	Square-Wave Voltammetric Detection of Dopamine at a Copper-(3-Mercaptopropyl) Trimethoxy Silane Complex Modified Electrode. Electroanalysis, 2005, 17, 2231-2238.	2.9	21
152	Development of Extraction and Analytical Methods of Nitrite Ion from Food Samples: Microchip Electrophoresis with a Modified Electrode. Journal of Agricultural and Food Chemistry, 2009, 57, 4051-4057.	5.2	21
153	Microneedle array sensor for monitoring glucose in single cell using glucose oxidase-bonded polyterthiophene coated on AuZn oxide layer. Sensors and Actuators B: Chemical, 2020, 320, 128416.	7.8	21
154	Simultaneous immobilization of cobalt tetrasulfonated phthalocyanine during electropolymerization of pyrrole in presence of surfactants: a study of film morphology and its conductivity. Synthetic Metals, 2005, 150, 165-173.	3.9	20
155	Analysis of polymerase chain reaction amplifications through phosphate detection using an enzyme–based microbiosensor in a microfluidic device. Electrophoresis, 2006, 27, 2951-2959.	2.4	20
156	Catalytic properties of Au and Pd nanoparticles decorated on Cu2O microcubes for aerobic benzyl alcohol oxidation and Suzuki–Miyaura coupling reactions in water. Applied Catalysis A: General, 2014, 476, 72-77.	4.3	20
157	Voltammetric analysis of anti-arthritis drug, ascorbic acid, tyrosine, and uric acid using a graphene decorated-functionalized conductive polymer electrode. Electrochimica Acta, 2014, 139, 315-322.	5.2	20
158	Enhanced Electrocatalytic Activities of In Situ Produced Pd/S/N-Doped Carbon in Oxygen Reduction and Hydrogen Evolution Reactions. ACS Applied Energy Materials, 2021, 4, 575-585.	5.1	20
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