

Yoon-Bo Shim, ì<-ìœœë³'

List of Publications by Year in descending order

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272
papers

11,921
citations

19657

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95
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275
docs citations

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times ranked

11560
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Sensors Based on Organic Conjugated Polymers. <i>Sensors</i> , 2008, 8, 118-141.	3.8	395
2	Applications of conducting polymer composites to electrochemical sensors: A review. <i>Applied Materials Today</i> , 2017, 9, 419-433.	4.3	394
3	Conducting polymer-based electrochemical biosensors for neurotransmitters: A review. <i>Biosensors and Bioelectronics</i> , 2018, 102, 540-552.	10.1	292
4	Ultrasensitive and Selective Electrochemical Diagnosis of Breast Cancer Based on a Hydrazine- Au Nanoparticle-Aptamer Bioconjugate. <i>Analytical Chemistry</i> , 2013, 85, 1058-1064.	6.5	277
5	Electrochemistry of Conductive Polymers VIII: In Situ Spectroelectrochemical Studies of Polyaniline Growth Mechanisms. <i>Journal of the Electrochemical Society</i> , 1990, 137, 538-544.	2.9	235
6	Direct DNA Hybridization Detection Based on the Oligonucleotide-Functionalized Conductive Polymer. <i>Analytical Chemistry</i> , 2001, 73, 5629-5632.	6.5	229
7	Label-free detection of kanamycin based on the aptamer-functionalized conducting polymer/gold nanocomposite. <i>Biosensors and Bioelectronics</i> , 2012, 36, 29-34.	10.1	215
8	Disposable amperometric immunosensor system for rabbit IgG using a conducting polymer modified screen-printed electrode. <i>Biosensors and Bioelectronics</i> , 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. <i>Biosensors and Bioelectronics</i> , 2019, 130, 48-54.	10.1	181
10	Characterization of an EDTA Bonded Conducting Polymer Modified Electrode: Its Application for the Simultaneous Determination of Heavy Metal Ions. <i>Analytical Chemistry</i> , 2003, 75, 1123-1129.	6.5	180
11	Functionalized Conducting Polymer as an Enzyme-Immobilizing Substrate: An Amperometric Glutamate Microbiosensor for in Vivo Measurements. <i>Analytical Chemistry</i> , 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. <i>Advanced Energy Materials</i> , 2017, 7, 1602002.	19.5	160
13	Direct electrochemistry of horseradish peroxidase bonded on a conducting polymer modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2003, 19, 227-232.	10.1	157
14	Application of a Cu-Co alloy dendrite on glucose and hydrogen peroxide sensors. <i>Electrochimica Acta</i> , 2012, 61, 36-43.	5.2	156
15	Gold Nanoparticles Doped Conducting Polymer Nanorod Electrodes: Ferrocene Catalyzed Aptamer-Based Thrombin Immunosensor. <i>Analytical Chemistry</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 659-665.	7.8	146
17	Detection of daunomycin using phosphatidylserine and aptamer co-immobilized on Au nanoparticles deposited conducting polymer. <i>Biosensors and Bioelectronics</i> , 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. <i>Analytical Chemistry</i> , 2008, 80, 8020-8027.	6.5	136

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91	MicroRNAs in ovarian cancer and recent advances in the development of microRNA-based biosensors. <i>Analyst, The</i> , 2020, 145, 2038-2057.	3.5	42
92	Selective nonenzymatic bilirubin detection in blood samples using a Nafion/Mn ²⁺ /Cu sensor. <i>Biosensors and Bioelectronics</i> , 2014, 61, 554-561.	10.1	41
93	Selective Electrochemical Analysis of Various Metal Ions at an EDTA Bonded Conducting Polymer Modified Electrode. <i>Electroanalysis</i> , 2004, 16, 1366-1370.	2.9	40
94	Microchip capillary electrophoresis with a cellulose-DNA-modified screen-printed electrode for the analysis of neurotransmitters. <i>Electrophoresis</i> , 2005, 26, 3043-3052.	2.4	40
95	Human hair-derived hollow carbon microfibers for electrochemical sensing. <i>Carbon</i> , 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. <i>Nucleic Acids Research</i> , 2004, 32, e110-e110.	14.5	39
97	An all-solid-state reference electrode based on the layer-by-layer polymer coating. <i>Analyst, The</i> , 2007, 132, 906.	3.5	39
98	Water Sensor for a Nonaqueous Solvent with Poly(1,5-diaminonaphthalene) Nanofibers. <i>Analytical Chemistry</i> , 2008, 80, 5307-5311.	6.5	39
99	The electrochemical sensor for methanol detection using silicon epoxy coated platinum nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 45-50.	7.8	39
100	Detection of Ca ²⁺ -induced acetylcholine released from leukemic T-cells using an amperometric microfluidic sensor. <i>Biosensors and Bioelectronics</i> , 2017, 98, 364-370.	10.1	39
101	Cathodic properties of a lithium-ion secondary battery using LiCoO ₂ prepared by a complex formation reaction. <i>Journal of Power Sources</i> , 1998, 70, 70-77.	7.8	38
102	Voltammetric determination of the iodide ion with a quinine copper(II) complex modified carbon paste electrode. <i>Journal of Electroanalytical Chemistry</i> , 1999, 463, 16-23.	3.8	37
103	Stability and Sensitivity Enhanced Electrochemical In Vivo Superoxide Microbiosensor Based on Covalently Co-immobilized Lipid and Cytochrome <i>c</i> . <i>Analytical Chemistry</i> , 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. <i>Electrochimica Acta</i> , 2012, 67, 201-207.	5.2	36
105	Effect of organic acids and nano-sized ceramic doping on PEO-based solid polymer electrolytes. <i>Journal of Power Sources</i> , 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. <i>Journal of Materials Chemistry A</i> , 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)]. <i>Synthetic Metals</i> , 2010, 160, 413-418.	3.9	34
108	A Glucose Sensor Based on an Aminophenyl Boronic Acid Bonded Conducting Polymer. <i>Electroanalysis</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 72-81.	7.8	34
110	Cocaine increases endoplasmic reticulum stress protein expression in striatal neurons. <i>Neuroscience</i> , 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. <i>Biomaterials</i> , 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. <i>Langmuir</i> , 2010, 26, 11212-11216.	3.5	33
113	Electrochemical Detection of Hemoglobin: A Review. <i>Electroanalysis</i> , 2017, 29, 2190-2199.	2.9	33
114	Simultaneous Detection of Cd (II), Pb (II), Cu (II), and Hg (II) Ions in Dye Waste Water Using a Boron Doped Diamond Electrode with DPASV. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 140-145.	1.9	32
115	Development of a new and simple method for the detection of histidine-tagged proteins. <i>Biosensors and Bioelectronics</i> , 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. <i>Electrophoresis</i> , 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. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1573-1578.	2.9	31
118	Determination of Selenium with a Poly(1,8-diamino-naphthalene)-Modified Electrode. <i>Electroanalysis</i> , 2005, 17, 1952-1958.	2.9	30
119	Repeated cocaine administration increases nitric oxide efflux in the rat dorsal striatum. <i>Psychopharmacology</i> , 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. <i>Chemical Communications</i> , 2013, 49, 4000.	4.1	30
121	Microfluidic neurotransmitters sensor in blood plasma with mediator-immobilized conducting polymer/N, S-doped porous carbon composite. <i>Sensors and Actuators B: Chemical</i> , 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. <i>Biosensors and Bioelectronics</i> , 2005, 21, 257-265.	10.1	29
123	Characterization of Protein-Attached Conducting Polymer Monolayer. <i>Langmuir</i> , 2008, 24, 1087-1093.	3.5	29
124	An amperometric immunosensor for osteoprotegerin based on gold nanoparticles deposited conducting polymer. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1595-1601.	10.1	28
125	Total analysis of endocrine disruptors in a microchip with gold nanoparticles. <i>Electrophoresis</i> , 2010, 31, 3053-3060.	2.4	28
126	Ag(I)-cysteamine complex based electrochemical stripping immunoassay: Ultrasensitive human IgG detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4429-4435.	10.1	28

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127	Fabrication of disposable sensors for biomolecule detection using hydrazine electrocatalyst. <i>Analytical Biochemistry</i> , 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. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111746.	10.1	27
129	Electropolymerization and spectroelectrochemical characterization of poly(1,5-diaminonaphthalene). <i>Synthetic Metals</i> , 1995, 69, 561-562.	3.9	26
130	An all-solid-state monohydrogen phosphate sensor based on a macrocyclic ionophore. <i>Talanta</i> , 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. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2720-2728.	10.3	26
132	Redox reaction of benzoquinone on a lipid coated glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 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. <i>Electroanalysis</i> , 2002, 14, 704.	2.9	25
134	A Simple Separation Method with a Microfluidic Channel Based on Alternating Current Potential Modulation. <i>Analytical Chemistry</i> , 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 β -CHC inhibitor on lactate level in cancer cell lines. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112094.	10.1	25
136	Electrochemistry of conductive polymer X: Polyaniline-based potentiometric sensor for dissolved oxygen. <i>Electroanalysis</i> , 1991, 3, 31-36.	2.9	24
137	Electrochemical and in situ UV-visible spectroscopic behavior of cytochrome c at a cardiolipin-modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2001, 514, 67-74.	3.8	24
138	Determination of Cytochrome c with Cellulose DNA Modified Carbon Paste Electrodes. <i>Electroanalysis</i> , 2004, 16, 821-826.	2.9	24
139	Conjugated polymers and an iron complex as electrocatalytic materials for an enzyme-based biofuel cell. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1735-1741.	10.1	24
140	Electrochemical Evaluation of Binding Affinity for Aptamer Selection Using the Microarray Chip. <i>Electroanalysis</i> , 2012, 24, 1057-1064.	2.9	24
141	Synthesis and physical properties of β -bis[Co ₂ (CO) ₆ { η^4 - η^2 -2-C(R) \uparrow C}] oligothiophenes. <i>Journal of Organometallic Chemistry</i> , 2000, 599, 232-237.	1.8	23
142	Synthesis and Characterization of Regiosymmetric Poly(3,4-propylenedioxythiophene) Derivative. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 444, 129-135.	0.9	23
143	Spectroelectrochemical and electrochromic behaviors of newly synthesized poly[3-(2-aminopyrimidyl)-2,2,5,2'-terthiophene]. <i>Electrochimica Acta</i> , 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. <i>Electroanalysis</i> , 2007, 19, 1160-1166.	2.9	22

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145	Electrophoretic total analysis of trace tetracycline antibiotics in a microchip with amperometry. <i>Electrophoresis</i> , 2009, 30, 3219-3227.	2.4	22
146	Comparison of solar cell performance of conducting polymer dyes with different functional groups. <i>Journal of Power Sources</i> , 2011, 196, 8874-8880.	7.8	22
147	Amperometric sensing of HIF1 α expressed in cancer cells and the effect of hypoxic mimicking agents. <i>Biosensors and Bioelectronics</i> , 2016, 83, 312-318.	10.1	22
148	Long-life Heavy Metal Ions Sensor Based on Graphene Oxide-anchored Conducting Polymer. <i>Electroanalysis</i> , 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. <i>Biosensors and Bioelectronics</i> , 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. <i>Small</i> , 2021, 17, e2007511.	10.0	22
151	Square-Wave Voltammetric Detection of Dopamine at a Copper-(3-Mercaptopropyl) Trimethoxy Silane Complex Modified Electrode. <i>Electroanalysis</i> , 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. <i>Journal of Agricultural and Food Chemistry</i> , 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. <i>Sensors and Actuators B: Chemical</i> , 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. <i>Synthetic Metals</i> , 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. <i>Electrophoresis</i> , 2006, 27, 2951-2959.	2.4	20
156	Catalytic properties of Au and Pd nanoparticles decorated on Cu ₂ O microcubes for aerobic benzyl alcohol oxidation and Suzuki-Miyaura coupling reactions in water. <i>Applied Catalysis A: General</i> , 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. <i>Electrochimica Acta</i> , 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. <i>ACS Applied Energy Materials</i> , 2021, 4, 575-585.	5.1	20
159	Electrocatalytic Reduction of Molecular Oxygen Using a Poly(terthiophene carboxylic acid) Appended by 1,5-Diaminonaphthalene Copper Complex. <i>Journal of the Electrochemical Society</i> , 2002, 149, E265.	2.9	19
160	Polyterthiophene Appended by Organomolybdenum Sulfide Cluster: Electrochemical Synthesis and Electrochemical Properties of Poly[Mo ₂ (C ₅ H ₅) ₂ {SC(R)C S[C ₄ H ₅ (C ₄ H ₃ S-2)-2,5]} ₂]. <i>Chemistry of Materials</i> , 2003, 15, 825-827.	6.7	19
161	Glutaraldehyde sandwiched amino functionalized polymer based aptasensor for the determination and quantification of chloramphenicol. <i>RSC Advances</i> , 2015, 5, 69356-69364.	3.6	19
162	Sensitive NADH detection in a tumorigenic cell line using a nano-biosensor based on the organic complex formation. <i>Biosensors and Bioelectronics</i> , 2016, 85, 488-495.	10.1	19

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163	Enhanced electrochemical sensing of leukemia cells using drug/lipid co-immobilized on the conducting polymer layer. <i>Biosensors and Bioelectronics</i> , 2016, 86, 33-40.	10.1	19
164	Simultaneous detection of ATP metabolites in human plasma and urine based on palladium nanoparticle and poly(bromocresol green) composite sensor. <i>Biosensors and Bioelectronics</i> , 2019, 126, 758-766.	10.1	19
165	Fe ₃ N decorated S/N doped carbon derived from a coordinated polymer as a bifunctional electrocatalyst for oxygen reduction and catecholamines oxidation. <i>Carbon</i> , 2022, 187, 1-12.	10.3	19
166	Determination of copper(I) ion with a chemically modified carbon paste electrode based on di(2-imino-cyclopentylidene mercaptomethyl) disulfide. <i>Electroanalysis</i> , 1993, 5, 421-426.	2.9	18
167	Polyterthiophene-bearing pendant organomolybdenum complexes: electropolymerization of erythro-[Mo ₂ (C ₅ H ₅) ₂ (CO) ₄]-2-C(R)-C[C ₄ H ₅ (C ₄ H ₃ S-2) ₂ ,5]]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 1893-1898.		18
168	Polyterthiophene- π -conjugated by organomolybdenum complex (II): electropolymerization of erythro-[(1-5-C ₅ H ₅) ₂ Mo ₂ (O) ₂]-2-C(Ph)-C[C ₄ H ₅ (C ₄ H ₃ S-2) ₂ ,5]]. <i>Journal of Organometallic Chemistry</i> , 2000, 608, 133-138.	1.8	18
169	Analysis of Phthalate Esters in Mammalian Cell Culture Using a Microfluidic Channel Coupled with an Electrochemical Sensor. <i>Analytical Chemistry</i> , 2015, 87, 7069-7077.	6.5	18
170	Characterization of electrochemically prepared polyaminopyridines. <i>Electroanalysis</i> , 1996, 8, 44-48.	2.9	17
171	Anodic differential pulse voltammetric analysis of iodide with a cinchonine-modified carbon paste electrode. <i>Electroanalysis</i> , 1996, 8, 680-684.	2.9	17
172	Electrochemical Detection of ClO ₂ , BrO ₂ , and IO ₂ at a Phosphomolybdic Acid Linked 3-Aminopropyl-Trimethoxysilane Modified Electrode. <i>Electroanalysis</i> , 2006, 18, 993-1000.	2.9	17
173	Repeated cocaine administration increases N-methyl-d-aspartate NR1 subunit, extracellular signal-regulated kinase and cyclic AMP response element-binding protein phosphorylation and glutamate release in the rat dorsal striatum. <i>European Journal of Pharmacology</i> , 2008, 590, 157-162.	3.5	17
174	Enhanced electrocatalytic reduction of oxygen with a molecule having multi-quinone moieties adsorbed in the nanofiber film. <i>Journal of Electroanalytical Chemistry</i> , 2009, 632, 102-108.	3.8	17
175	An All Solid State Potentiometric Sensor for Monohydrogen Phosphate Ions. <i>Electroanalysis</i> , 2013, 25, 1864-1870.	2.9	17
176	Design of Electrochemically Reduced Graphene Oxide/Titanium Disulfide Nanocomposite Sensor for Selective Determination of Ascorbic Acid. <i>ACS Applied Nano Materials</i> , 2021, 4, 10077-10089.	5.0	17
177	Determination of mercury and silver at a modified carbon paste electrode containing glyoxal bis(2-hydroxyanil). <i>Electroanalysis</i> , 1995, 7, 1171-1176.	2.9	16
178	Trace Analysis of Al (III) Ions Based on the Redox Current of a Conducting Polymer. <i>Electroanalysis</i> , 2004, 16, 2051-2057.	2.9	16
179	Selective Binding of NH ₄ ⁺ by Redox-Active Crown Ethers: Application to a NH ₄ ⁺ Sensor. <i>Analytical Chemistry</i> , 2004, 76, 3660-3665.	6.5	16
180	Superoxide radical sensing using a cytochrome c3 immobilized conducting polymer electrode. <i>Biosensors and Bioelectronics</i> , 2007, 23, 161-167.	10.1	16

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181	Novel cyclopenta[def]phenanthrene based blue emitting oligomers for OLEDs. <i>Tetrahedron Letters</i> , 2008, 49, 3582-3587.	1.4	16
182	A novel Mg(II)-selective sensor based on 5,10,15,20-tetrakis(2-furyl)-21,23-dithiaporphyrin as an electroactive material. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 25-30.	3.8	16
183	A Sensor for Serotonin and Dopamine Detection in Cancer Cells Line Based on the Conducting Polymer ²⁺ Pd Complex Composite. <i>Electroanalysis</i> , 2020, 32, 520-527.	2.9	16
184	Sensitive Detection of Motor Neuron Disease Derived Exosomal miRNA Using Electrocatalytic Activity of Gold ²⁺ Loaded Superparamagnetic Ferric Oxide Nanocubes. <i>ChemElectroChem</i> , 2020, 7, 3459-3467.	3.4	16
185	Exosomal microRNAs array sensor with a bioconjugate composed of p53 protein and hydrazine for the specific lung cancer detection. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114149.	10.1	16
186	Improved Performance of an Amperometric Biosensor with Polydiaminonaphthalene on Electrochemically Deposited Au Nanoparticles. <i>Electroanalysis</i> , 2010, 22, 632-638.	2.9	15
187	An Amperometric Immunosensor for IgG Based on Conducting Polymer and Carbon Nanotube ²⁺ Linked Hydrazine Label. <i>Electroanalysis</i> , 2010, 22, 2908-2914.	2.9	15
188	Protein Kinase G Regulates Dopamine Release, FosB Expression, and Locomotor Activity After Repeated Cocaine Administration: Involvement of Dopamine D2 Receptors. <i>Neurochemical Research</i> , 2013, 38, 1424-1433.	3.3	15
189	Polyterthiophene appended by transition-metal cluster: electropolymerization of 3,5-bis(2-mercaptoethyl)terthiophene. <i>Synthetic Metals</i> , 1999, 105, 9-12.	3.9	14
190	In-Situ ESR Detection of Radical Species of p-Benzoquinone in Aqueous Media. <i>Electroanalysis</i> , 2002, 14, 1501-1507.	2.9	14
191	The determination of the redox potentials of the radical species of a conductive polymer with a spectroelectrochemical technique. <i>Journal of Electroanalytical Chemistry</i> , 2009, 628, 16-20.	3.8	14
192	Advanced stent coating for drug delivery and in vivo biocompatibility. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	14
193	Electrochemical Degradation of Phenol and 2-Chlorophenol Using Pt/Ti and Boron-Doped Diamond Electrodes. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2274-2278.	1.9	14
194	Detection for folding of the thrombin binding aptamer using label-free electrochemical methods. <i>BMB Reports</i> , 2008, 41, 126-131.	2.4	14
195	Analysis of some metabolites of organic solvents in urine by high-performance liquid chromatography with β -cyclodextrin. <i>Biomedical Applications</i> , 1997, 694, 367-374.	1.7	13
196	A novel nanogold ²⁺ single wall carbon nanotube modified sensor for the electrochemical determination of 8-hydroxyguanine, a diabetes risk biomarker. <i>Bioelectrochemistry</i> , 2014, 99, 24-29.	4.6	13
197	Characterization of All Solid State Hydrogen Ion Selective Electrode Based on PVC-SR Hybrid Membranes. <i>Sensors</i> , 2003, 3, 192-201.	3.8	12
198	Ionophores in Rubidium Ion-Selective Membrane Electrodes. <i>Electroanalysis</i> , 2004, 16, 1785-1790.	2.9	12

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217	Revisiting fluorescent carbon nanodots for environmental, biomedical applications and puzzle about fluorophore impurities. <i>Nano Structures Nano Objects</i> , 2019, 20, 100391.	3.5	9
218	Chiral Pd ₆ L ₈ Nanocube Pairs: Recognition of Chiral Amino Acids via Electrochemistry. <i>Inorganic Chemistry</i> , 2020, 59, 5808-5812.	4.0	9
219	Electrochemical Polymerization of Ruthenium(II) Complex and Application to Acetaminophen Analysis. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1341-1345.	1.9	9
220	Heteroatoms doped carbon decorated with tiny amount Pt nanoparticles as a bifunctional catalyst for hydrogen and chlorine generation from seawater. <i>Carbon</i> , 2022, 196, 621-632.	10.3	9
221	Electrochemical and Spectroelectrochemical Behaviors of Vitamin K ₁ /Lipid Modified Electrodes and the Formation of Radical Anion in Aqueous Media. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 3133-3138.	1.9	8
222	Electrochemical and electroreflectance spectroscopic study of copper tetrakis(n-butoxy) Tj ETQqO O O rgBT /Overlock 10 Tf 50 542 Td (c	2.9	7
223	Dopamine D4 receptors linked to protein kinase G are required for changes in dopamine release followed by locomotor activity after repeated cocaine administration. <i>Experimental Brain Research</i> , 2015, 233, 1511-1518.	1.5	7
224	Electrodynamic Force Derived in-Channel Separation and Detection of Au Nanoparticles Using an Electrochemical AC Microfluidic Channel. <i>Analytical Chemistry</i> , 2019, 91, 14109-14116.	6.5	7
225	A novel DNA binding protein-based platform for electrochemical detection of miRNA. <i>Analyst</i> , The, 2021, 146, 5496-5501.	3.5	7
226	The Interaction of CO to the Co(salen) Complex in to PEDOT:PSS Film and Sensor Application. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1297-1302.	1.9	7
227	Double potential step chronoamperometry and related pulse techniques at spherical electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1992, 341, 15-34.	3.8	6
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