Abdollah Salimi

List of Publications by Year
in descending order

204	11,125	22099	40881
papers	citations	59 h-index	93 g-index

206	206	206	10398
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fe3O4 magnetic nanoparticles/reduced graphene oxide nanosheets as a novel electrochemical and bioeletrochemical sensing platform. Biosensors and Bioelectronics, 2013, 49, 1-8.	5.3	479
2	Nanomolar detection of hydrogen peroxide on glassy carbon electrode modified with electrodeposited cobalt oxide nanoparticles. Analytica Chimica Acta, 2007, 594, 24-31.	2.6	292
3	Glucose biosensor prepared by glucose oxidase encapsulated sol-gel and carbon-nanotube-modified basal plane pyrolytic graphite electrode. Analytical Biochemistry, 2004, 333, 49-56.	1.1	255
4	Immobilization of glucose oxidase on electrodeposited nickel oxide nanoparticles: Direct electron transfer and electrocatalytic activity. Biosensors and Bioelectronics, 2007, 22, 3146-3153.	5.3	225
5	Electrochemical detection of trace amount of arsenic(III) at glassy carbon electrode modified with cobalt oxide nanoparticles. Sensors and Actuators B: Chemical, 2008, 129, 246-254.	4.0	215
6	Ultrasensitive electrochemical immunosensor for PSA biomarker detection in prostate cancer cells using gold nanoparticles/PAMAM dendrimer loaded with enzyme linked aptamer as integrated triple signal amplification strategy. Biosensors and Bioelectronics, 2015, 74, 915-923.	5.3	210
7	A highly sensitive prostate-specific antigen immunosensor based on gold nanoparticles/PAMAM dendrimer loaded on MWCNTS/chitosan/ionic liquid nanocomposite. Biosensors and Bioelectronics, 2014, 52, 20-28.	5.3	188
8	An amplified comparative fluorescence resonance energy transfer immunosensing of CA125 tumor marker and ovarian cancer cells using green and economic carbon dots for bio-applications in labeling, imaging and sensing. Biosensors and Bioelectronics, 2017, 96, 308-316.	5.3	169
9	Catalytic oxidation of thiols at preheated glassy carbon electrode modified with abrasive immobilization of multiwall carbon nanotubes: applications to amperometric detection of thiocytosine, -cysteine and glutathione. Talanta, 2005, 66, 967-975.	2.9	156
10	Enhancement of the analytical properties and catalytic activity of a nickel hexacyanoferrate modified carbon ceramic electrode prepared by two-step solâ€“gel technique: application to amperometric detection of hydrazine and hydroxyl amine. Talanta, 2004, 63, 475-483.	2.9	143
11	Abrasive immobilization of carbon nanotubes on a basal plane pyrolytic graphite electrode: application to the detection of epinephrine. Analyst, The, 2004, 129, 225.	1.7	141
12	Highly sensitive bioaffinity electrochemiluminescence sensors: Recent advances and future directions. Biosensors and Bioelectronics, 2019, 142, 111530.	5.3	137
13	Renewable solâ€“gel carbon ceramic electrodes modified with a Ru-complex for the amperometric detection of ?-cysteine and glutathione. Talanta, 2003, 60, 205-214.	2.9	134
14	Direct voltammetry and electrocatalytic properties of hemoglobin immobilized on a glassy carbon electrode modified with nickel oxide nanoparticles. Electrochemistry Communications, 2006, 8, 1499-1508.	2.3	134
15	Simultaneous determination of ascorbic acid, uric acid and neurotransmitters with a carbon ceramic electrode prepared by solâ€“gel technique. Talanta, 2006, 70, 823-832.	2.9	133
16	Low potential detection of NADH based on Fe3O4 nanoparticles/multiwalled carbon nanotubes composite: Fabrication of integrated dehydrogenase-based lactate biosensor. Biosensors and Bioelectronics, 2012, 33, 60-68.	5.3	133
17	Direct electrochemistry and electrocatalytic activity of catalase immobilized onto electrodeposited nano-scale islands of nickel oxide. Biophysical Chemistry, 2007, 125, 540-548.	1.5	131
18	Highly sensitive immunosensing of prostate-specific antigen based on ionic liquidâ€“carbon nanotubes modified electrode: Application as cancer biomarker for prostatebiopsies. Biosensors and Bioelectronics, 2013, 42, 439-446.	5.3	131

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19	Non-enzymatic glucose detection free of ascorbic acid interference using nickel powder and nafion solâ€“gel dispersed renewable carbon ceramic electrode. Electrochemistry Communications, 2005, 7, 879-887.	2.3	130
20	Efficient amine functionalization of graphene oxide through the Bucherer reaction: an extraordinary metal-free electrocatalyst for the oxygen reduction reaction. RSC Advances, 2015, 5, 59874-59880.	1.7	124
21	A molecularly imprinted electrochemiluminescence sensor for ultrasensitive HIV-1 gene detection using EuS nanocrystals as luminophore. Biosensors and Bioelectronics, 2018, 117, 332-339.	5.3	124
22	Label-free electrochemical IgE aptasensor based on covalent attachment of aptamer onto multiwalled carbon nanotubes/ionic liquid/chitosan nanocomposite modified electrode. Biosensors and Bioelectronics, 2013, 43, 218-225.	5.3	123
23	Amperometric and voltammetric detection of hydrazine using glassy carbon electrodes modified with carbon nanotubes and catechol derivatives. Talanta, 2007, 75, 147-56.	2.9	121
24	An ultrasensitive detection of miRNA-155 in breast cancer via direct hybridization assay using two-dimensional molybdenum disulfide field-effect transistor biosensor. Biosensors and Bioelectronics, 2018, 105, 6-13.	5.3	121
25	Amplified fluorescent sensing of DNA using luminescent carbon dots and AuNPs/GO as a sensing platform: A novel coupling of FRET and DNA hybridization for homogeneous HIV-1 gene detection at femtomolar level. Biosensors and Bioelectronics, 2017, 89, 773-780.	5.3	120
26	Ultrasensitive flexible FET-type aptasensor for CA 125 cancer marker detection based on carboxylated multiwalled carbon nanotubes immobilized onto reduced graphene oxide film. Analytica Chimica Acta, 2018, 1000, 273-282.	2.6	119
27	Graphene nanosheets modified glassy carbon electrode for simultaneous detection of heroine, morphine and noscapine. Biosensors and Bioelectronics, 2012, 31, 205-211.	5.3	116
28	Ultrasensitive electrochemiluminescence immunoassay for simultaneous determination of CA125 and CA15-3 tumor markers based on PAMAM-sulfanilic acid-Ru(bpy)32+ and PAMAM-CdTe@CdS nanocomposite. Biosensors and Bioelectronics, 2018, 99, 353-360.	5.3	114
29	Direct electrochemistry and electrocatalytic activity of catalase incorporated onto multiwall carbon nanotubes-modified glassy carbon electrode. Analytical Biochemistry, 2005, 344, 16-24.	1.1	113
30	Current advances of carbon dots based biosensors for tumor marker detection, cancer cells analysis and bioimaging. TrAC - Trends in Analytical Chemistry, 2019, 115, 83-99.	5.8	110
31	Au nanoparticles/PAMAM dendrimer functionalized wired ethyleneamineâ€“viologen as highly efficient interface for ultra-sensitive Î±-fetoprotein electrochemical immunosensor. Biosensors and Bioelectronics, 2014, 59, 389-396.	5.3	108
32	Amperometric Detection of Morphine at Preheated Glassy Carbon Electrode Modified with Multiwall Carbon Nanotubes. Electroanalysis, 2005, 17, 873-879.	1.5	102
33	Amperometric detection of nitrite, iodate and periodate at glassy carbon electrode modified with catalase and multi-wall carbon nanotubes. Sensors and Actuators B: Chemical, 2007, 123, 530-537.	4.0	102
34	Immobilization of hemoglobin on electrodeposited cobalt-oxide nanoparticles: Direct voltammetry and electrocatalytic activity. Biophysical Chemistry, 2007, 130, 122-131.	1.5	100
35	Modification of glassy carbon electrode with multi-walled carbon nanotubes and iron(III)-porphyrin film: Application to chlorate, bromate and iodate detection. Electrochimica Acta, 2007, 52, 6097-6105.	2.6	97
36	Switchable electrochemiluminescence aptasensor coupled with resonance energy transfer for selective attomolar detection of Hg2+ via CdTe@CdS/dendrimer probe and Au nanoparticle quencher. Biosensors and Bioelectronics, 2018, 102, 328-335.	5.3	97

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37	Electrocatalytic Reduction of Dioxygen at the Surface of Glassy Carbon Electrodes Modified by Some Anthraquinone Substituted Podands. Electroanalysis, 1999, 11, 114-119.	1.5	92
38	A highly sensitive electrochemical immunosensor for hepatitis B virus surface antigen detection based on Hemin/G-quadruplex horseradish peroxidase-mimicking DNAzyme-signal amplification. Biosensors and Bioelectronics, 2017, 94, 184-192.	5.3	91
39	A FRET immunosensor for sensitive detection of CA 15-3 tumor marker in human serum sample and breast cancer cells using antibody functionalized luminescent carbon-dots and AuNPs-dendrimer aptamer as donor-acceptor pair. Analytical Biochemistry, 2018, 557, 18-26.	1.1	86
40	Functionalized fluorescent carbon nanostructures for targeted imaging of cancer cells:Âa review. Mikrochimica Acta, 2019, 186, 231.	2.5	81
41	Boron doped diamond electrode modified with iridium oxide for amperometic detection of ultra trace amounts of arsenic(iii). Analyst, The, 2004, 129, 9.	1.7	80
42	Mimicking peroxidase-like activity of Co3O4-CeO2 nanosheets integrated paper-based analytical devices for detection of glucose with smartphone. Sensors and Actuators B: Chemical, 2019, 288, 44-52.	4.0	79
43	Highly sensitive sensor for picomolar detection of insulin at physiological pH, using GC electrode modified with guanine and electrodeposited nickel oxide nanoparticles. Biosensors and Bioelectronics, 2008, 24, 792-798.	5.3	77
44	Fabrication of electrochemical theophylline sensor based on manganese oxide nanoparticles/ionic liquid/chitosan nanocomposite modified glassy carbon electrode. Electrochimica Acta, 2013, 108, 707-716.	2.6	77
45	Manganese oxide nanoflakes/multi-walled carbon nanotubes/chitosan nanocomposite modified glassy carbon electrode as a novel electrochemical sensor for chromium (III) detection. Electrochimica Acta, 2015, 156, 207-215.	2.6	76
46	Picomolar Detection of Insulin at Renewable Nickel Powder-Doped Carbon Composite Electrode. Analytical Chemistry, 2007, 79, 7431-7438.	3.2	72
47	Fabrication of a Sensitive Cholesterol Biosensor Based on Cobaltâ€oxide Nanostructures Electrodeposited onto Glassy Carbon Electrode. Electroanalysis, 2009, 21, 2693-2700.	1.5	72
48	One-pot hydrothermal synthesis of zirconium dioxide nanoparticles decorated reduced graphene oxide composite as high performance electrochemical sensing and biosensing platform. Electrochimica Acta, 2014, 143, 196-206.	2.6	72
49	One dimensional CdS nanowire@TiO2 nanoparticles core-shell as high performance photocatalyst for fast degradation of dye pollutants under visible and sunlight irradiation. Journal of Colloid and Interface Science, 2016, 479, 43-54.	5.0	72
50	Simultaneous Determination of Ranitidine and Metronidazole at Glassy Carbon Electrode Modified with Single Wall Carbon Nanotubes. Electroanalysis, 2007, 19, 1668-1676.	1.5	71
51	Fabrication of a highly sensitive adenosine aptasensor based on covalent attachment of aptamer onto chitosan-carbon nanotubes-ionic liquid nanocomposite. Biosensors and Bioelectronics, 2013, 48, 100-107.	5.3	67
52	Shape-dependent electron transfer kinetics and catalytic activity of NiO nanoparticles immobilized onto DNA modified electrode: Fabrication of highly sensitive enzymeless glucose sensor. Biosensors and Bioelectronics, 2014, 56, 313-319.	5.3	67
53	Electrochemical properties and electrocatalytic activity of FAD immobilized onto cobalt oxide nanoparticles: Application to nitrite detection. Journal of Electroanalytical Chemistry, 2008, 619-620, 31-38.	1.9	66
54	Mimicking peroxidase activity of Co2(OH)2CO3-CeO2 nanocomposite for smartphone based detection of tumor marker using paper-based microfluidic immunodevice. Talanta, 2018, 189, 100-110.	2.9	66

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55	Development of DNA electrochemical biosensor based on immobilization of ssDNA on the surface of nickel oxide nanoparticles modified glassy carbon electrode. Biosensors and Bioelectronics, 2011, 30, 188-196.	5.3	65
56	Ultrasonic effects on the electro-reduction of oxygen at a glassy carbon anthraquinone-modified electrode. The Kouteckyâ€“Levich equation applied to insonated electro-catalytic reactions. Physical Chemistry Chemical Physics, 2003, 5, 3988-3993.	1.3	62
57	Electrooxidation of insulin at silicon carbide nanoparticles modified glassy carbon electrode. Electrochemistry Communications, 2009, 11, 1116-1119.	2.3	62
58	Highly selective and sensitive adenosine aptasensor based on platinum nanoparticles as catalytical label for amplified detection of biorecognition events through H2O2 reduction. Biosensors and Bioelectronics, 2014, 53, 355-362.	5.3	62
59	Multienzymes activity of metals and metal oxide nanomaterials: applications from biotechnology to medicine and environmental engineering. Journal of Nanobiotechnology, 2021, 19, 26.	4.2	62
60	Electrocatalytic activity of nickel oxide nanoparticles as mediatorless system for NADH and ethanol sensing at physiological pH solution. Biosensors and Bioelectronics, 2013, 45, 260-266.	5.3	61
61	Renewable Surface Sol-gel Derived Carbon Ceramic Electrode Modified with Copper Complex and Its Application as an Amperometric Sensor for Bromate Detection. Electroanalysis, 2004, 16, 1984-1991.	1.5	60
62	Amperometric detection of hydrogen peroxide at nano-nickel oxide/thionine and celestine blue nanocomposite-modified glassy carbon electrodes. Electrochimica Acta, 2009, 54, 6312-6321.	2.6	60
63	Nickel nanoclusters as a novel emitter for molecularly imprinted electrochemiluminescence based sensor toward nanomolar detection of creatinine. Biosensors and Bioelectronics, 2018, 107, 272-279.	5.3	60
64	SiC nanoparticles-modified glassy carbon electrodes for simultaneous determination of purine and pyrimidine DNA bases. Biosensors and Bioelectronics, 2011, 26, 3864-3869.	5.3	59
65	Electrocatalytic oxidation of NADH at electrogenerated NAD+ oxidation product immobilized onto multiwalled carbon nanotubes/ionic liquid nanocomposite: Application to ethanol biosensing. Talanta, 2012, 90, 91-98.	2.9	59
66	A 3D hydrogel based on chitosan and carbon dots for sensitive fluorescence detection of microRNA-21 in breast cancer cells. Talanta, 2021, 224, 121895.	2.9	56
67	Solâ€“gel derived carbon ceramic composite electrode containing a ruthenium complex for amperometric detection of insulin at physiological pH. Journal of Electroanalytical Chemistry, 2003, 542, 39-49.	1.9	54
68	Amperometric Detection of Dopamine in the Presence of Ascorbic Acid Using a Nafion Coated Glassy Carbon Electrode Modified with Catechin Hydrate as a Natural Antioxidant. Mikrochimica Acta, 2004, 144, 161-169.	2.5	54
69	Sonoelectroanalysis: investigation of bismuth-film-modified glassy carbon electrodes. Analytical and Bioanalytical Chemistry, 2004, 379, 277-282.	1.9	54
70	Electrocatalysis of O2Reduction at Glassy Carbon Electrodes Modified with Adsorbed 1,4-Dihydroxy-9,10-anthraquinone Derivatives. Bulletin of the Chemical Society of Japan, 1999, 72, 2121-2127.	2.0	53
71	CuO/WO3 nanoparticles decorated graphene oxide nanosheets with enhanced peroxidase-like activity for electrochemical cancer cell detection and targeted therapeutics. Materials Science and Engineering C, 2019, 99, 1374-1383.	3.8	53
72	Intrinsic Enzyme-like Activities of Cerium Oxide Nanocomposite and Its Application for Extracellular H₂O₂ Detection Using an Electrochemical Microfluidic Device. ACS Omega, 2020, 5, 11883-11894.	1.6	53

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73	Ultrasensitive electrochemiluminescence immunosensor for determination of hepatitis B virus surface antigen using CdTe@CdS-PAMAM dendrimer as luminescent labels and Fe3O4 nanoparticles as magnetic beads. Sensors and Actuators B: Chemical, 2018, 254, 551-560.	4.0	52
74	Oxovanadium(IV) complexes as homogeneous catalystâ€"aerobic epoxidation of olefins. Applied Catalysis A: General, 2005, 278, 263-267.	2.2	51
75	Graphene oxide/CuFe2O4 nanocomposite as a novel scaffold for the immobilization of laccase and its application as a recyclable nanobiocatalyst for the green synthesis of arylsulfonyl benzenediols. Biochemical Engineering Journal, 2018, 133, 1-11.	1.8	51
76	Ni-hemin metalâ€"organic framework with highly efficient peroxidase catalytic activity: toward colorimetric cancer cell detection and targeted therapeutics. Journal of Nanobiotechnology, 2018, 16, 93.	4.2	50
77	A novel non-enzymatic hydrogen peroxide sensor based on single walled carbon nanotubesâ€"manganese complex modified glassy carbon electrode. Electrochimica Acta, 2011, 56, 3387-3394.	2.6	49
78	Renewable-surface solâ€"gel derived carbon ceramic electrode fabricated by [Ru(bpy)(tpy)Cl]PF6and its application as an amperometric sensor for sulfide and sulfur oxoanions. Analyst, The, 2002, 127, 1649-1656.	1.7	45
79	Electrocatalytic Oxidation of Sulfur Containing Amino Acids at Renewable Ni-Powder Doped Carbon Ceramic Electrode: Application to Amperometric DetectionL-Cystine,L-Cysteine andL-Methionine. Electroanalysis, 2006, 18, 2129-2136.	1.5	44
80	Immobilization of [Cu(bpy)2]Br2 complex onto a glassy carbon electrode modified with Î±-SiMo12O404â¯ and single walled carbon nanotubes: Application to nanomolar detection of hydrogen peroxide and bromate. Analytica Chimica Acta, 2009, 635, 63-70.	2.6	44
81	Highly sensitive electrocatalytic detection of nitrite based on SiC nanoparticles/amine terminated ionic liquid modified glassy carbon electrode integrated with flow injection analysis. Sensors and Actuators B: Chemical, 2014, 205, 136-142.	4.0	44
82	Highly sensitive electrochemical aptasensor for immunoglobulin E detection based on sandwich assay using enzyme-linked aptamer. Analytical Biochemistry, 2014, 466, 89-97.	1.1	44
83	Preparation and electrocatalytic oxidation properties of a nickel pentacyanonitrosylferrate modified carbon composite electrode by two-step solâ€"gel technique: improvement of the catalytic activity. Electrochimica Acta, 2004, 49, 413-422.	2.6	43
84	Fabrication of Glucose Biosensor Based on Encapsulation of Glucoseâ€Oxidase on Solâ€Gel Composite at the Surface of Glassy Carbon Electrode Modified with Carbon Nanotubes and Celestine Blue. Electroanalysis, 2008, 20, 1788-1797.	1.5	43
85	Carbon Nanotubesâ€Ionic Liquid and Chloropromazine Modified Electrode for Determination of NADH and Fabrication of Ethanol Biosensor. Electroanalysis, 2010, 22, 1707-1716.	1.5	43
86	DNA/nickel oxide nanoparticles/osmium(III)-complex modified electrode toward selective oxidation of l-cysteine and simultaneous detection of l-cysteine and homocysteine. Bioelectrochemistry, 2012, 86, 9-21.	2.4	43
87	Adsorption and Reactivity of Chlorogenic Acid at a Hydrophobic Carbon Ceramic Composite Electrode: Application for the Amperometric Detection of Hydrazine. Electroanalysis, 2004, 16, 1964-1971.	1.5	41
88	Micromolar determination of sulfur oxoanions and sulfide at a renewable solâ€"gel carbon ceramic electrode modified with nickel powder. Electrochimica Acta, 2006, 51, 1952-1959.	2.6	41
89	Layer by layer assembly of glucose oxidase and thiourea onto glassy carbon electrode: Fabrication of glucose biosensor. Electrochimica Acta, 2011, 56, 6097-6105.	2.6	41
90	CuO nanorods as a laccase mimicking enzyme for highly sensitive colorimetric and electrochemical dual biosensor: Application in living cell epinephrine analysis. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111228.	2.5	41

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91	Electrosorption of Os(III)-complex at single-wall carbon nanotubes immobilized on a glassy carbon electrode: Application to nanomolar detection of bromate, periodate and iodate. Analytica Chimica Acta, 2008, 618, 43-53.	2.6	40
92	Electrocatalytic Reduction of H2O2 and Oxygen on the Surface of Thionin Incorporated onto MWCNTs Modified Glassy Carbon Electrode: Application to Glucose Detection. Electroanalysis, 2007, 19, 1100-1108.	1.5	39
93	Fabrication of an Electrochemical <scp>L</scp>â€Cysteine Sensor Based on Graphene Nanosheets Decorated Manganese Oxide Nanocomposite Modified Glassy Carbon Electrode. Electroanalysis, 2013, 25, 2201-2210.	1.5	39
94	Electrocatalytic properties of [Ru(bpy)(tpy)Cl]PF6 at carbon ceramic electrode modified with nafion solâ€“gel composite: application to amperometric detection of l-cysteine. Analytica Chimica Acta, 2005, 534, 335-342.	2.6	38
95	Modification of carbon ceramic electrode prepared with sol?gel technique by a thin film of chlorogenic acid: application to amperometric detection of NADH. Talanta, 2005, 65, 888-894.	2.9	38
96	Covalent attachment of thionine onto gold electrode modified with cadmium sulfide nanoparticles: Improvement of electrocatalytic and photelectrocatalytic reduction of hydrogen peroxide. Electrochimica Acta, 2013, 95, 60-70.	2.6	38
97	Amperometric detection of hydrogen peroxide at nano-ruthenium oxide/riboflavin nanocomposite-modified glassy carbon electrodes. Electrochimica Acta, 2013, 113, 134-140.	2.6	38
98	Fluorometric determination of microRNA-155 in cancer cells based on carbon dotsÂandÂMnO2 nanosheets as a donor-acceptor pair. Mikrochimica Acta, 2018, 185, 372.	2.5	38
99	Electrochemical properties of modified carbon paste electrodes containing some amino derivatives of 9,10-anthraquinone. Journal of Solid State Electrochemistry, 2001, 5, 68-73.	1.2	37
100	Hierarchical Co(OH)2/FeOOH/WO3 ternary nanoflowers as a dual-function enzyme with pH-switchable peroxidase and catalase mimic activities for cancer cell detection and enhanced photodynamic therapy. Chemical Engineering Journal, 2021, 417, 129134.	6.6	37
101	Electrocatalytic activity of cobaloxime complexes adsorbed on glassy carbon electrodes toward the reduction of dioxygen. Journal of Electroanalytical Chemistry, 2001, 517, 37-44.	1.9	36
102	Cobalt oxide nanostructure-modified glassy carbon electrode as a highly sensitive flow injection amperometric sensor for the picomolar detection of insulin. Journal of Solid State Electrochemistry, 2012, 16, 1239-1246.	1.2	36
103	Graphene-supported pyrene-functionalized amino-carbon nanotube: a novel hybrid architecture of laccase immobilization as effective bioelectrocatalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 7623-7630.	5.2	36
104	Enhanced visible light driven photoelectrocatalytic oxidation of ethanol at reduced graphene oxide/CdS nanowires decorated with Pt nanoparticles. Catalysis Science and Technology, 2016, 6, 3485-3496.	2.1	36
105	FAD-based glucose dehydrogenase immobilized on thionine/AuNPs frameworks grafted on amino-CNTs: Development of high power glucose biofuel cell and biosensor. Journal of Electroanalytical Chemistry, 2018, 815, 105-113.	1.9	36
106	Magnetoimmunosensor for simultaneous electrochemical detection of carcinoembryonic antigen and Î±-fetoprotein using multifunctionalized Au nanotags. Journal of Electroanalytical Chemistry, 2018, 811, 8-15.	1.9	35
107	Simultaneous biosensing of CA125 and CA15-3 tumor markers and imaging of OVCAR-3 and MCF-7 cells lines via bi-color FRET phenomenon using dual blue-green luminescent carbon dots with single excitation wavelength. International Journal of Biological Macromolecules, 2018, 118, 617-628.	3.6	35
108	Electrodeposition of guanine oxidation product onto zinc oxide nanoparticles: Application to nanomolar detection of l-cysteine. Sensors and Actuators B: Chemical, 2009, 135, 632-641.	4.0	34

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109	Electrochemical and Photoelectrochemical Sensing of Dihydronicotinamide Adenine Dinucleotide and Glucose Based on Noncovalently Functionalized Reduced Graphene Oxideâ€Cadmium Sulfide Quantum Dots/Polyâ€Nile Blue Nanocomposite. Electroanalysis, 2014, 26, 1782-1793.	1.5	34
110	Amplified fluorescence resonance energy transfer sensing of prostate specific antigen based on aggregation of CdTe QDs/antibody and aptamer decorated of AuNPs-PAMAM dendrimer. Journal of Luminescence, 2018, 204, 368-374.	1.5	34
111	Polymer dots as a novel probe for fluorescence sensing of dopamine and imaging in single living cell using droplet microfluidic platform. Analytica Chimica Acta, 2019, 1091, 40-49.	2.6	34
112	Ratiometric fluorescence resonance energy transfer aptasensor for highly sensitive and selective detection of Acinetobacter baumannii bacteria in urine sample using carbon dots as optical nanoprobes. Talanta, 2021, 221, 121619.	2.9	34
113	Amperometric detection of insulin at renewable solâ€“gel derived carbon ceramic electrode modified with nickel powder and potassium octacyanomolybdate(IV). Biosensors and Bioelectronics, 2006, 22, 220-226.	5.3	33
114	Synthesis of Iridium Oxide Nanotubes by Electrodeposition into Polycarbonate Template: Fabrication of Chromium(III) and Arsenic(III) Electrochemical Sensor. Electroanalysis, 2011, 23, 2429-2437.	1.5	33
115	A self-enhanced ECL-RET immunosensor for the detection of CA19-9 antigen based on Ru(bpy)2(phen-NH2)2+ - Amine-rich nitrogen-doped carbon nanodots as probe and graphene oxide grafted hyperbranched aromatic polyamide as platform. Analytica Chimica Acta, 2020, 1132, 55-65.	2.6	33
116	Graphdiyne nanosheet as a novel sensing platform for self-enhanced electrochemiluminescence of MOF enriched ruthenium (II) in the presence of dual co-reactants for detection of tumor marker. Biosensors and Bioelectronics, 2022, 195, 113657.	5.3	33
117	Immobilization of glucose oxidase onto a novel platform based on modified TiO2 and graphene oxide, direct electrochemistry, catalytic and photocatalytic activity. Materials Science and Engineering C, 2017, 73, 417-424.	3.8	32
118	Development of a New Labelâ€free, Indicatorâ€free Strategy toward Ultrasensitive Electrochemical DNA Biosensing Based on Fe₃O₄ Nanoparticles/Reduced Graphene Oxide Composite. Electroanalysis, 2017, 29, 409-414.	1.5	32
119	Direct electron transfer and electrocatalytic properties of immobilized hemoglobin onto glassy carbon electrode modified with ionic-liquid/titanium-nitride nanoparticles: Application to nitrite detection. Sensors and Actuators B: Chemical, 2014, 191, 625-633.	4.0	31
120	Electrocatalytic Reduction of Dioxygen on a Glassy Carbon Electrode Modified with Adsorbed Cobaloxime Complex.. Analytical Sciences, 2001, 17, 1165-1170.	0.8	30
121	Fabrication of High performance bioanode based on fruitful association of dendrimer and carbon nanotube used for design O2/glucose membrane-less biofuel cell with improved bilirubine oxidase biocathode. Biosensors and Bioelectronics, 2013, 50, 186-193.	5.3	30
122	Potential-resolved electrochemiluminescence immunoassay for simultaneous determination of CEA and AFP tumor markers using dendritic nanoclusters and Fe3O4@SiO2 nanoparticles. Mikrochimica Acta, 2017, 184, 3613-3623.	2.5	30
123	Facile one-pot synthesis of platinum nanoparticles decorated nitrogen-graphene with high electrocatalytic performance for oxygen reduction and anodic fuels oxidation. Journal of Power Sources, 2015, 277, 268-276.	4.0	29
124	Preparation and characterization of laccases immobilized on magnetic nanoparticles and their application as a recyclable nanobiocatalyst for the aerobic oxidation of alcohols in the presence of TEMPO. RSC Advances, 2016, 6, 26709-26718.	1.7	29
125	The development of radio frequency magnetron sputtered p-type nickel oxide thin film field-effect transistor device combined with nucleic acid probe for ultrasensitive label-free HIV-1 gene detection. Sensors and Actuators B: Chemical, 2018, 266, 178-186.	4.0	29
126	Electroless Deposition of Thionin onto Glassy Carbon Electrode Modified with Single Wall and Multiwall Carbon Nanotubes: Improvement of the Electrochemical Reversibility and Stability. Electroanalysis, 2006, 18, 703-711.	1.5	28

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127	Complexes with carbonate as a tridentate ligand: Synthesis and characterization of sandwich-type polyoxometallates [(A-Î±-AsW9O34)2(MOH2)3(CO3)]11â¯ (M=Y(III), Yb(III) and Sm(III)). Polyhedron, 2008, 27, 1303-1309.	1.0	28
128	Layer by layer assembly of catalase and amine-terminated ionic liquid onto titanium nitride nanoparticles modified glassy carbon electrode: Study of direct voltammetry and bioelectrocatalytic activity. Analytica Chimica Acta, 2012, 753, 32-41.	2.6	28
129	Controlling of morphology and electrocatalytic properties of cobalt oxide nanostructures prepared by potentiodynamic deposition method. Applied Surface Science, 2013, 276, 512-520.	3.1	28
130	Zeptomolar detection of Hg 2+ based on label-free electrochemical aptasensor: One step closer to the dream of single atom detection. Electrochemistry Communications, 2017, 78, 21-25.	2.3	28
131	Electrochemical and Photoelectrochemical Sensing of NADH and Ethanol Based on Immobilization of Electrogenerated Chlorpromazine Sulfoxide onto Grapheneâ€CdS Quantum Dot/Ionic Liquid Nanocomposite. Electroanalysis, 2014, 26, 530-540.	1.5	27
132	Amine-functionalized graphene as an effective electrochemical platform toward easily miRNA hybridization detection. Measurement: Journal of the International Measurement Confederation, 2019, 143, 191-198.	2.5	27
133	Fabrication of a Highly Sensitive Glucose Biosensor Based on Immobilization of Osmium Complex and Glucose Oxidase onto Carbon Nanotubes Modified Electrode. Electroanalysis, 2009, 21, 909-917.	1.5	25
134	Carbon dots hybrid for dual fluorescent detection of microRNA-21 integrated bioimaging of MCF-7 using a microfluidic platform. Journal of Nanobiotechnology, 2022, 20, 73.	4.2	25
135	Hydrogen peroxide sensor based on riboflavin immobilized at the nickel oxide nanoparticle-modified glassy carbon electrode. Journal of Applied Electrochemistry, 2013, 43, 1175-1183.	1.5	24
136	Novel voltammetric and impedimetric sensor for femtomolar determination of lysozyme based on metalâ€“chelate affinity immobilized onto gold nanoparticles. Biosensors and Bioelectronics, 2015, 74, 270-276.	5.3	24
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