

Mehdi Baghayeri

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85
papers

4,099
citations

40
h-index

61
g-index

85
ext. papers

5,347
ext. citations

5
avg, IF

6.59
L-index

#	Paper	IF	Citations
85	Guanine-Based DNA Biosensor Amplified with Pt/SWCNTs Nanocomposite as Analytical Tool for Nanomolar Determination of Daunorubicin as an Anticancer Drug: A Docking/Experimental Investigation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 816-823	3.9	198
84	A critical review on the use of potentiometric based biosensors for biomarkers detection. <i>Biosensors and Bioelectronics</i> , 2021 , 184, 113252	11.8	171
83	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell CoO@MOF-74 nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2021 , 592, 174-185	9.3	168
82	Development of non-enzymatic glucose sensor based on efficient loading Ag nanoparticles on functionalized carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 354-362	8.5	158
81	A simple hydrogen peroxide biosensor based on a novel electro-magnetic poly(p-phenylenediamine)@Fe ₃ O ₄ nanocomposite. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 259-65	11.8	132
80	Simultaneous electrochemical determination of glutathione and tryptophan on a nano-TiO ₂ /ferrocene carboxylic acid modified carbon paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2009 , 143, 261-269	8.5	111
79	Application of graphene/zinc-based metal-organic framework nanocomposite for electrochemical sensing of As(III) in water resources. <i>Analytica Chimica Acta</i> , 2020 , 1099, 60-67	6.6	104
78	Fabrication of a facile electrochemical biosensor for hydrogen peroxide using efficient catalysis of hemoglobin on the porous Pd@Fe ₃ O ₄ -MWCNT nanocomposite. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 190-8	11.8	91
77	A non-enzymatic hydrogen peroxide sensor based on dendrimer functionalized magnetic graphene oxide decorated with palladium nanoparticles. <i>Applied Surface Science</i> , 2019 , 478, 87-93	6.7	88
76	Amperometric glucose biosensor based on immobilization of glucose oxidase on a magnetic glassy carbon electrode modified with a novel magnetic nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 321-330	8.5	87
75	A green and sensitive guanine-based DNA biosensor for idarubicin anticancer monitoring in biological samples: A simple and fast strategy for control of health quality in chemotherapy procedure confirmed by docking investigation. <i>Chemosphere</i> , 2021 , 132928	8.4	82
74	Voltammetric aptasensor for bisphenol A based on the use of a MWCNT/FeO@gold nanocomposite. <i>Mikrochimica Acta</i> , 2018 , 185, 320	5.8	80
73	A novel electrochemical sensor based on a glassy carbon electrode modified with dendrimer functionalized magnetic graphene oxide for simultaneous determination of trace Pb(II) and Cd(II). <i>Electrochimica Acta</i> , 2019 , 312, 80-88	6.7	77
72	Multi-walled carbon nanotubes decorated with palladium nanoparticles as a novel platform for electrocatalytic sensing applications. <i>RSC Advances</i> , 2014 , 4, 49595-49604	3.7	77
71	Determination of nifedipine using nanostructured electrochemical sensor based on simple synthesis of Ag nanoparticles at the surface of glassy carbon electrode: Application to the analysis of some real samples. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 697, 53-59	4.1	72
70	Electrochemical quantification of 17 β -Ethinylestradiol in biological samples using a Au/Fe ₃ O ₄ @TA/MWNT/GCE sensor. <i>Materials Chemistry and Physics</i> , 2020 , 244, 122687	4.4	71
69	Non-enzymatic voltammetric glucose sensor made of ternary NiO/Fe ₃ O ₄ -SH/para-amino hippuric acid nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 810, 69-77	4.1	69

68	Green synthesis of silver nanoparticles using water extract of <i>Salvia leriifolia</i> : Antibacterial studies and applications as catalysts in the electrochemical detection of nitrite. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4057	3.1	69
67	Polyamidoamine dendrimer functionalized iron oxide nanoparticles for simultaneous electrochemical detection of Pb ²⁺ and Cd ²⁺ ions in environmental waters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 140, 81-88	4.6	67
66	Electrodeposition of quercetin at a multi-walled carbon nanotubes modified glassy carbon electrode as a novel and efficient voltammetric sensor for simultaneous determination of levodopa, uric acid and tyramine. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 508-518	8.5	64
65	Non-Enzymatic Amperometric Sensing of Hydrogen Peroxide Based on Vanadium Pentoxide Nanostructures. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B367-B372	3.9	62
64	Label-free Electrochemical Bisphenol A Aptasensor Based on Designing and Fabrication of a Magnetic Gold Nanocomposite. <i>Electroanalysis</i> , 2018 , 30, 2160-2166	3	62
63	Fabrication of a nanostructured luteolin biosensor for simultaneous determination of levodopa in the presence of acetaminophen and tyramine: Application to the analysis of some real samples. <i>Electrochimica Acta</i> , 2013 , 108, 22-31	6.7	60
62	Monitoring of hydrogen peroxide using a glassy carbon electrode modified with hemoglobin and a polypyrrole-based nanocomposite. <i>Mikrochimica Acta</i> , 2015 , 182, 771-779	5.8	57
61	Novel superparamagnetic PFu@Fe ₃ O ₄ conductive nanocomposite as a suitable host for hemoglobin immobilization. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 1200-1208	8.5	56
60	Direct electrochemistry and electrocatalysis of hemoglobin immobilized on biocompatible poly(styrene-alternative-maleic acid)/functionalized multi-wall carbon nanotubes blends. <i>Sensors and Actuators B: Chemical</i> , 2013 , 188, 227-234	8.5	56
59	Determination of Trace Tl(I) by Differential Pulse Anodic Stripping Voltammetry Using a Novel Modified Carbon Paste Electrode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 066508	3.9	55
58	In situ generation of Iron(III) dodecyl sulfate as Lewis acid-surfactant catalyst for synthesis of bis-indolyl, tris-indolyl, Di(bis-indolyl), Tri(bis-indolyl), tetra(bis-indolyl)methanes and 3-alkylated indole compounds in water. <i>RSC Advances</i> , 2014 , 4, 30683	3.7	53
57	Facile synthesis of PSMA-g-3ABA/MWCNTs nanocomposite as a substrate for hemoglobin immobilization: application to catalysis of H ₂ O ₂ . <i>Materials Science and Engineering C</i> , 2014 , 39, 213-20 ^{8.3}	8.3	51
56	Determination of D&C Red 33 and Patent Blue V Azo dyes using an impressive electrochemical sensor based on carbon paste electrode modified with ZIF-8/g-CN/Co and ionic liquid in mouthwash and toothpaste as real samples.. <i>Food and Chemical Toxicology</i> , 2022 , 112907	4.7	51
55	Magnetized graphene layers synthesized on the carbon nanofibers as novel adsorbent for the extraction of polycyclic aromatic hydrocarbons from environmental water samples. <i>Journal of Chromatography A</i> , 2016 , 1465, 1-8	4.5	50
54	Pt nanoparticles/reduced graphene oxide nanosheets as a sensing platform: Application to determination of droxidopa in presence of phenobarbital. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 255-263	8.5	50
53	A non-enzymatic glucose sensor based on NiO nanoparticles/functionalized SBA 15/MWCNT-modified carbon paste electrode. <i>Ionic</i> , 2017 , 23, 1553-1562	2.7	48
52	A high sensitive voltammetric sensor for qualitative and quantitative determination of phenobarbital as an antiepileptic drug in presence of acetaminophen. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 95, 121-8	6	48
51	An electrochemical strategy for toxic ractopamine sensing in pork samples; twofold amplified nano-based structure analytical tool. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 4098-4104 ^{2.8}	2.8	47

50	Magnetic solid-phase extraction of polycyclic aromatic hydrocarbons using a graphene oxide/FeO@polystyrene nanocomposite. <i>Mikrochimica Acta</i> , 2018 , 185, 393	5.8	45
49	Glucose sensing by a glassy carbon electrode modified with glucose oxidase and a magnetic polymeric nanocomposite. <i>RSC Advances</i> , 2015 , 5, 18267-18274	3.7	45
48	Selective hydrogen peroxide oxidation of sulfides to sulfones with carboxylated multi-walled carbon nano tubes (MWCNTs-COOH) as heterogeneous and recyclable nanocatalysts under organic solvent-free conditions. <i>RSC Advances</i> , 2015 , 5, 10152-10158	3.7	44
47	Bioelectrocatalysis of hydrogen peroxide based on immobilized hemoglobin onto glassy carbon electrode modified with magnetic poly(indole-co-thiophene) nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 784, 69-76	4.1	43
46	Ag@TiO ₂ nanocomposite; synthesis, characterization and its application as a novel and recyclable catalyst for the one-pot synthesis of benzoxazole derivatives in aqueous media. <i>RSC Advances</i> , 2015 , 5, 46545-46551	3.7	42
45	Designing and fabrication of a novel gold nanocomposite structure: application in electrochemical sensing of bisphenol A. <i>International Journal of Environmental Analytical Chemistry</i> , 2018 , 98, 874-888	1.8	40
44	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection.. <i>Food and Chemical Toxicology</i> , 2022 , 112961	4.7	40
43	Magnetic solid-phase extraction using poly(para-phenylenediamine) modified with magnetic nanoparticles as adsorbent for analysis of monocyclic aromatic amines in water and urine samples. <i>Journal of Chromatography A</i> , 2015 , 1415, 20-6	4.5	39
42	Voltammetric behavior of tiopronin on carbon paste electrode modified with nanocrystalline FeNi alloys. <i>Materials Science and Engineering C</i> , 2014 , 44, 175-82	8.3	38
41	Ultrasound promoted facile one pot synthesis of highly substituted pyran derivatives catalyzed by silica-coated magnetic NiFe ₂ O ₄ nanoparticle-supported H14[NaP5W3O110] under mild conditions. <i>RSC Advances</i> , 2016 , 6, 96644-96661	3.7	38
40	Magnetic nanoparticles modified with polyfuran for the extraction of polycyclic aromatic hydrocarbons prior to their determination by gas chromatography. <i>Mikrochimica Acta</i> , 2016 , 183, 149-156	5.8	37
39	Magnetic nanoparticles coated with poly(p-phenylenediamine-co-thiophene) as a sorbent for preconcentration of organophosphorus pesticides. <i>Mikrochimica Acta</i> , 2017 , 185, 15	5.8	37
38	Application of a glassy carbon electrode modified with functionalized multi-walled carbon nanotubes as a sensor device for simultaneous determination of acetaminophen and tyramine. <i>Analytical Methods</i> , 2012 , 4, 1579	3.2	36
37	A selective sensor based on a glassy carbon electrode modified with carbon nanotubes and ruthenium oxide/hexacyanoferrate film for simultaneous determination of ascorbic acid, epinephrine and uric acid. <i>Analytical Methods</i> , 2011 , 3, 2367	3.2	36
36	Electrode designed with a nanocomposite film of CuO Honeycombs/Ag nanoparticles electrogenerated on a magnetic platform as an amperometric glucose sensor. <i>Analytica Chimica Acta</i> , 2020 , 1111, 49-59	6.6	34
35	Effective extraction of organophosphorus pesticides using sol-gel based coated stainless steel mesh as novel solid-phase extraction sorbent. <i>Journal of Chromatography A</i> , 2020 , 1620, 461020	4.5	33
34	Electrochemical aptasensor of bisphenol A constructed based on 3D mesoporous structural SBA-15-Met with a thin layer of gold nanoparticles. <i>Microchemical Journal</i> , 2021 , 162, 105825	4.8	33
33	Ag nanoparticles decorated Fe ₃ O ₄ /chitosan nanocomposite: synthesis, characterization and application toward electrochemical sensing of hydrogen peroxide. <i>Journal of the Iranian Chemical Society</i> , 2018 , 15, 1015-1022	2	32

32	Electro-Magnetic Polyfuran/Fe ₃ O ₄ Nanocomposite: Synthesis, Characterization, Antioxidant Activity, and Its Application as a Biosensor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 175-183	3	31
31	Voltammetric determination of hydroxylamine in water samples using a 1-benzyl-4-ferrocenyl-1H-[1,2,3]-triazole/carbon nanotube-modified glassy carbon electrode. <i>Ionics</i> , 2014 , 20, 571-579	2.7	31
30	Poly(pyrrole-co-aniline)@graphene oxide/Fe ₃ O ₄ sorbent for the extraction and preconcentration of polycyclic aromatic hydrocarbons from water samples. <i>New Journal of Chemistry</i> , 2018 , 42, 16744-16751	2.6	31
29	A fast and sensitive nanosensor based on MgO nanoparticle room-temperature ionic liquid carbon paste electrode for determination of methyl dopa in pharmaceutical and patient human urine samples. <i>Ionics</i> , 2013 , 19, 1907-1914	2.7	30
28	Sensitive Voltammetric Determination of Captopril Using a Carbon Paste Electrode Modified with Nano-TiO ₂ /Ferrocene Carboxylic Acid. <i>Chinese Journal of Catalysis</i> , 2011 , 32, 1685-1692	11.3	30
27	Facile synthesis and investigation of 1,8-dioxooctahydroxanthene derivatives as corrosion inhibitors for mild steel in hydrochloric acid solution. <i>New Journal of Chemistry</i> , 2016 , 40, 1278-1286	3.6	29
26	Electrochemical detection of bisphenol a on a MWCNTs/CuFe ₂ O ₄ nanocomposite modified glassy carbon electrode. <i>Materials Chemistry and Physics</i> , 2021 , 261, 124247	4.4	28
25	A nanocomposite consisting of poly(methyl methacrylate), graphene oxide and FeO nanoparticles as a sorbent for magnetic solid-phase extraction of aromatic amines. <i>Mikrochimica Acta</i> , 2017 , 185, 14	5.8	25
24	Preparation of GO/FeO@PMDA/AuNPs nanocomposite for simultaneous determination of As and Cu by stripping voltammetry. <i>Talanta</i> , 2021 , 230, 122288	6.2	25
23	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. <i>Journal of Nanostructure in Chemistry</i> , 1	7.6	25
22	Graphene oxide/polydimethylsiloxane-coated stainless steel mesh for use in solid-phase extraction cartridges and extraction of polycyclic aromatic hydrocarbons. <i>Mikrochimica Acta</i> , 2020 , 187, 213	5.8	24
21	Magnetic MWCNTs-dendrimer: A potential modifier for electrochemical evaluation of As (III) ions in real water samples. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 888, 115059	4.1	24
20	Highly Sensitive Nanostructured Electrochemical Sensor Based on Carbon Nanotubes-Pt Nanoparticles Paste Electrode for Simultaneous Determination of Levodopa and Tyramine. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 292-301	1.2	22
19	A novel way for detection of antiparkinsonism drug entacapone via electrodeposition of silver nanoparticles/functionalized multi-walled carbon nanotubes as an amperometric sensor. <i>Materials Science and Engineering C</i> , 2016 , 66, 77-83	8.3	19
18	Synthesis of symmetrical N,N'-alkylidene bis-amides catalyzed by silica coated magnetic NiFe ₂ O ₄ nanoparticle supported polyphosphoric acid (NiFe ₂ O ₄ @SiO ₂ -PPA) and its application toward silver nanoparticle synthesis for electrochemical detection of glucose. <i>RSC Advances</i> , 2015 , 5, 79746-79758	3.7	18
17	One-Pot Synthesis of Sulfonamides and Sulfonyl Azides from Thiols using Chloramine-T. <i>Helvetica Chimica Acta</i> , 2013 , 96, 2147-2151	2	17
16	Employment of Pd nanoparticles at the structure of poly aminohippuric acid as a nanocomposite for hydrogen peroxide detection. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 142-151	4.1	17
15	The role of pramipexole functionalized MWCNTs to the fabrication of Pd nanoparticles modified GCE for electrochemical detection of dopamine. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2019 , 27, 593-603	3.9	15

14	Application of sepiolite/FeS ₂ nanocomposite for highly selective detection of mercury(II) based on stripping voltammetric analysis. <i>Journal of Food Measurement and Characterization</i> , 2021 , 15, 5318	2.8	15
13	Phosphotungstic acid grafted zeolite imidazolate framework as an effective heterogeneous nanocatalyst for the one-pot solvent-free synthesis of 3,4-dihydropyrimidinones. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4959	3.1	14
12	Voltammetric sensor for simultaneous determination of ascorbic acid, acetaminophen, and tryptophan in pharmaceutical products. <i>Ionics</i> , 2014 , 20, 729-737	2.7	14
11	Cu-Based MOF for Simultaneous Determination of Trace Tl (I) and Hg (II) by Stripping Voltammetry. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 167522	3.9	11
10	Investigation about electrocatalytic oxidation of glucose on loaded Ag nanoparticles on functionalized carbon nanotubes. <i>Ionics</i> , 2016 , 22, 1709-1717	2.7	11
9	Green synthesis of NiONPs using <i>Trigonella subenervis</i> extract and its applications as a highly efficient electrochemical sensor, catalyst, and antibacterial agent. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6264	3.1	10
8	Biosynthesis of silver nanoparticles using oak leaf extract and their application for electrochemical sensing of hydrogen peroxide. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4537	3.1	10
7	A study of the electrocatalytic oxidation of methanol on a nickel/allophen-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 817-822	2.6	9
6	Poly(aminohippuric acid)/sodium dodecyl sulfate/functionalized graphene oxide nanocomposite for amplified electrochemical sensing of gallic acid. <i>Journal of the Iranian Chemical Society</i> , 2018 , 15, 1931-1938	2	8
5	Fabrication of a fast, simple and sensitive voltammetric sensor for the simultaneous determination of 4-aminohippuric acid and uric acid using a functionalized multi-walled carbon nanotube modified glassy carbon electrode. <i>Analytical Methods</i> , 2012 , 4, 1825	3.2	8
4	Introducing an Electrochemical Sensor Based on Two Layers of Ag Nanoparticles Decorated Graphene for Rapid Determination of Methadone in Human Blood Serum. <i>Topics in Catalysis</i> , 1	2.3	7
3	Oxidative Aromatization of 1,3,5-trisubstituted 2-pyrazolines Using Oxalic Acid/Sodium Nitrite System. <i>Polycyclic Aromatic Compounds</i> , 2019 , 39, 93-98	1.3	4
2	Application of BiNPs/MWCNTs-PDA/GC sensor to measurement of Tl (I) and Pb (II) using stripping voltammetry. <i>Chemosphere</i> , 2022 , 134701	8.4	3
1	Application of N,S-dual-doped carbon/sepiolite clay hybrid material for electrochemical detection of mercury(II) in water resources. <i>Materials Chemistry and Physics</i> , 2022 , 285, 126127	4.4	0