

# Mehdi Baghayeri

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1167523/mehdi-baghayeri-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 112961	4.7	40
84	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> , <b>2022</b> , 112907	4.7	51
83	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> , <b>2022</b> , 285, 126127	4.4	0
82	Application of BiNPs/MWCNTs-PDA/GC sensor to measurement of Tl (I) and Pb (II) using stripping voltammetry.. <i>Chemosphere</i> , <b>2022</b> , 134701	8.4	3
81	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> , <b>2021</b> , 132928	8.4	82
80	Electrochemical detection of bisphenol a on a MWCNTs/CuFe <sub>2</sub> O <sub>4</sub> nanocomposite modified glassy carbon electrode. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 261, 124247	4.4	28
79	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> , <b>2021</b> , 162, 105825	4.8	33
78	Green synthesis of NiONPs using Trigonella subenervis extract and its applications as a highly efficient electrochemical sensor, catalyst, and antibacterial agent. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6264	3.1	10
77	Magnetic MWCNTs-dendrimer: A potential modifier for electrochemical evaluation of As (III) ions in real water samples. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 888, 115059	4.1	24
76	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> , <b>2021</b> , 15, 4098-4104	2.8	47
75	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> , <b>2021</b> , 592, 174-185	9.3	168
74	A critical review on the use of potentiometric based biosensors for biomarkers detection. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 184, 113252	11.8	171
73	Application of sepiolite/FeS <sub>2</sub> nanocomposite for highly selective detection of mercury(II) based on stripping voltammetric analysis. <i>Journal of Food Measurement and Characterization</i> , <b>2021</b> , 15, 5318	2.8	15
72	Preparation of GO/FeO@PMDA/AuNPs nanocomposite for simultaneous determination of As and Cu by stripping voltammetry. <i>Talanta</i> , <b>2021</b> , 230, 122288	6.2	25
71	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 &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 816-823	3.9	198
70	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> , <b>2020</b> , 167, 066508	3.9	55
69	Graphene oxide/polydimethylsiloxane-coated stainless steel mesh for use in solid-phase extraction cartridges and extraction of polycyclic aromatic hydrocarbons. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 213	5.8	24

68	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> , <b>2020</b> , 1111, 49-59	6.6	34
67	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> , <b>2020</b> , 1620, 461020	4.5	33
66	Electrochemical quantification of 17 $\beta$ -Ethinylestradiol in biological samples using a Au/Fe <sub>3</sub> O <sub>4</sub> @TA/MWNT/GCE sensor. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 244, 122687	4.4	71
65	Cu-Based MOF for Simultaneous Determination of Trace Tl (I) and Hg (II) by Stripping Voltammetry. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 167522	3.9	11
64	Application of graphene/zinc-based metal-organic framework nanocomposite for electrochemical sensing of As(III) in water resources. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1099, 60-67	6.6	104
63	A non-enzymatic hydrogen peroxide sensor based on dendrimer functionalized magnetic graphene oxide decorated with palladium nanoparticles. <i>Applied Surface Science</i> , <b>2019</b> , 478, 87-93	6.7	88
62	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> , <b>2019</b> , 33, e4959	3.1	14
61	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> , <b>2019</b> , 312, 80-88	6.7	77
60	Polyamidoamine dendrimer functionalized iron oxide nanoparticles for simultaneous electrochemical detection of Pb <sup>2+</sup> and Cd <sup>2+</sup> ions in environmental waters. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 140, 81-88	4.6	67
59	Non-Enzymatic Amperometric Sensing of Hydrogen Peroxide Based on Vanadium Pentoxide Nanostructures. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B367-B372	3.9	62
58	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> , <b>2019</b> , 27, 593-603	3.9	15
57	Employment of Pd nanoparticles at the structure of poly aminohippuric acid as a nanocomposite for hydrogen peroxide detection. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 832, 142-151	4.1	17
56	Oxidative Aromatization of 1,3,5-trisubstituted 2-pyrazolines Using Oxalic Acid/Sodium Nitrite System. <i>Polycyclic Aromatic Compounds</i> , <b>2019</b> , 39, 93-98	1.3	4
55	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> , <b>2018</b> , 54, 292-301	1.2	22
54	Ag nanoparticles decorated Fe <sub>3</sub> O <sub>4</sub> /chitosan nanocomposite: synthesis, characterization and application toward electrochemical sensing of hydrogen peroxide. <i>Journal of the Iranian Chemical Society</i> , <b>2018</b> , 15, 1015-1022	2	32
53	Non-enzymatic voltammetric glucose sensor made of ternary NiO/Fe <sub>3</sub> O <sub>4</sub> -SH/para-amino hippuric acid nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 810, 69-77	4.1	69
52	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> , <b>2018</b> , 15, 1931-1938	2	8
51	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> , <b>2018</b> , 32, e4057	3.1	69

50	Magnetic solid-phase extraction of polycyclic aromatic hydrocarbons using a graphene oxide/FeO@polystyrene nanocomposite. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 393	5.8	45
49	Label-free Electrochemical Bisphenol A Aptasensor Based on Designing and Fabrication of a Magnetic Gold Nanocomposite. <i>Electroanalysis</i> , <b>2018</b> , 30, 2160-2166	3	62
48	Voltammetric aptasensor for bisphenol A based on the use of a MWCNT/FeO@gold nanocomposite. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 320	5.8	80
47	Designing and fabrication of a novel gold nanocomposite structure: application in electrochemical sensing of bisphenol A. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2018</b> , 98, 874-888	1.8	40
46	Poly(pyrrole-co-aniline)@graphene oxide/Fe <sub>3</sub> O <sub>4</sub> sorbent for the extraction and preconcentration of polycyclic aromatic hydrocarbons from water samples. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16744-16751	2.6	31
45	Biosynthesis of silver nanoparticles using oak leaf extract and their application for electrochemical sensing of hydrogen peroxide. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4537	3.1	10
44	A non-enzymatic glucose sensor based on NiO nanoparticles/functionalized SBA 15/MWCNT-modified carbon paste electrode. <i>Ionics</i> , <b>2017</b> , 23, 1553-1562	2.7	48
43	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> , <b>2017</b> , 249, 321-330	8.5	87
42	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> , <b>2017</b> , 784, 69-76	4.1	43
41	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> , <b>2017</b> , 240, 255-263	8.5	50
40	Magnetic nanoparticles coated with poly(p-phenylenediamine-co-thiophene) as a sorbent for preconcentration of organophosphorus pesticides. <i>Mikrochimica Acta</i> , <b>2017</b> , 185, 15	5.8	37
39	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> , <b>2017</b> , 185, 14	5.8	25
38	Magnetic nanoparticles modified with polyfuran for the extraction of polycyclic aromatic hydrocarbons prior to their determination by gas chromatography. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 149-156	5.8	37
37	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> , <b>2016</b> , 1465, 1-8	4.5	50
36	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> , <b>2016</b> , 66, 77-83	8.3	19
35	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> , <b>2016</b> , 40, 1278-1286	3.6	29
34	Development of non-enzymatic glucose sensor based on efficient loading Ag nanoparticles on functionalized carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 225, 354-362	8.5	158
33	Investigation about electrocatalytic oxidation of glucose on loaded Ag nanoparticles on functionalized carbon nanotubes. <i>Ionics</i> , <b>2016</b> , 22, 1709-1717	2.7	11

32	Ultrasound promoted facile one pot synthesis of highly substituted pyran derivatives catalyzed by silica-coated magnetic NiFe <sub>2</sub> O <sub>4</sub> nanoparticle-supported H14[NaP5W3O11O] under mild conditions. <i>RSC Advances</i> , <b>2016</b> , 6, 96644-96661	3.7	38
31	Monitoring of hydrogen peroxide using a glassy carbon electrode modified with hemoglobin and a polypyrrole-based nanocomposite. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 771-779	5.8	57
30	Fabrication of a facile electrochemical biosensor for hydrogen peroxide using efficient catalysis of hemoglobin on the porous Pd@Fe <sub>3</sub> O <sub>4</sub> -MWCNT nanocomposite. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 190-8	11.8	91
29	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> , <b>2015</b> , 1415, 20-6	4.5	39
28	Synthesis of symmetrical N,N'-alkylidene bis-amides catalyzed by silica coated magnetic NiFe <sub>2</sub> O <sub>4</sub> nanoparticle supported polyphosphoric acid (NiFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> -PPA) and its application toward silver nanoparticle synthesis for electrochemical detection of glucose. <i>RSC Advances</i> , <b>2015</b> , 5, 79746-79758	3.7	18
27	Electro-Magnetic Polyfuran/Fe <sub>3</sub> O <sub>4</sub> Nanocomposite: Synthesis, Characterization, Antioxidant Activity, and Its Application as a Biosensor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2015</b> , 64, 175-183	3	31
26	Ag@TiO <sub>2</sub> 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> , <b>2015</b> , 5, 46545-46551	3.7	42
25	Glucose sensing by a glassy carbon electrode modified with glucose oxidase and a magnetic polymeric nanocomposite. <i>RSC Advances</i> , <b>2015</b> , 5, 18267-18274	3.7	45
24	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> , <b>2015</b> , 5, 10152-10158	3.7	44
23	A simple hydrogen peroxide biosensor based on a novel electro-magnetic poly(p-phenylenediamine)@Fe <sub>3</sub> O <sub>4</sub> nanocomposite. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 55, 259-65	11.8	132
22	Multi-walled carbon nanotubes decorated with palladium nanoparticles as a novel platform for electrocatalytic sensing applications. <i>RSC Advances</i> , <b>2014</b> , 4, 49595-49604	3.7	77
21	Voltammetric behavior of tiopronin on carbon paste electrode modified with nanocrystalline FeNi alloys. <i>Materials Science and Engineering C</i> , <b>2014</b> , 44, 175-82	8.3	38
20	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> , <b>2014</b> , 4, 30683	3.7	53
19	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> , <b>2014</b> , 20, 571-579	2.7	31
18	Novel superparamagnetic PFu@Fe <sub>3</sub> O <sub>4</sub> conductive nanocomposite as a suitable host for hemoglobin immobilization. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 1200-1208	8.5	56
17	Facile synthesis of PSMA-g-3ABA/MWCNTs nanocomposite as a substrate for hemoglobin immobilization: application to catalysis of H <sub>2</sub> O <sub>2</sub> . <i>Materials Science and Engineering C</i> , <b>2014</b> , 39, 213-20	8.3	51
16	Voltammetric sensor for simultaneous determination of ascorbic acid, acetaminophen, and tryptophan in pharmaceutical products. <i>Ionics</i> , <b>2014</b> , 20, 729-737	2.7	14
15	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> , <b>2013</b> , 188, 227-234	8.5	56

14	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> , <b>2013</b> , 108, 22-31	6.7	60
13	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> , <b>2013</b> , 19, 1907-1914	2.7	30
12	One-Pot Synthesis of Sulfonamides and Sulfonyl Azides from Thiols using Chloramine-T. <i>Helvetica Chimica Acta</i> , <b>2013</b> , 96, 2147-2151	2	17
11	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> , <b>2013</b> , 697, 53-59	4.1	72
10	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> , <b>2012</b> , 166-167, 508-518	8.5	64
9	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> , <b>2012</b> , 95, 121-8	6	48
8	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> , <b>2012</b> , 4, 1579	3.2	36
7	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> , <b>2012</b> , 4, 1825	3.2	8
6	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> , <b>2011</b> , 3, 2367	3.2	36
5	Sensitive Voltammetric Determination of Captopril Using a Carbon Paste Electrode Modified with Nano-TiO <sub>2</sub> /Ferrocene Carboxylic Acid. <i>Chinese Journal of Catalysis</i> , <b>2011</b> , 32, 1685-1692	11.3	30
4	A study of the electrocatalytic oxidation of methanol on a nickel/alophen-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 817-822	2.6	9
3	Simultaneous electrochemical determination of glutathione and tryptophan on a nano-TiO <sub>2</sub> /ferrocene carboxylic acid modified carbon paste electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 143, 261-269	8.5	111
2	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> , <b>2009</b> , 1, 1-7	2.3	7
1	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> , <b>2009</b> , 1, 1-7	7.6	25