

# Hedayatollah Ghourchian

## List of Publications by Citations

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

62

papers

996

citations

19

h-index

28

g-index

63

ext. papers

1,168

ext. citations

5

avg, IF

4.77

L-index

#	Paper	IF	Citations
62	Ionic-liquid/NH <sub>2</sub> -MWCNTs as a highly sensitive nano-composite for catalase direct electrochemistry. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1301-6	11.8	74
61	Cytotoxic effect of albumin coated copper nanoparticle on human breast cancer cells of MDA-MB 231. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188639	3.7	67
60	Direct electron transfer of horseradish peroxidase on Nafion-cysteine modified gold electrode. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 6261-6267	6.7	60
59	Direct electrochemistry of glucose oxidase and glucose biosensing on a hydroxyl fullerenes modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 60, 30-4	11.8	49
58	Ultrasensitive optical biosensor for detection of miRNA-155 using positively charged Au nanoparticles. <i>Scientific Reports</i> , <b>2018</b> , 8, 2943	4.9	48
57	Graphene-Multiwalled Carbon Nanotube Hybrids Synthesized by Gamma Radiations: Application as a Glucose Sensor. <i>Journal of Nanotechnology</i> , <b>2014</b> , 2014, 1-10	3.5	40
56	A gold nanoparticle-based immunosensor for the chemiluminescence detection of the hepatitis B surface antigen. <i>Analytical Methods</i> , <b>2014</b> , 6, 5059-5066	3.2	31
55	Magnetic nanoparticle-based immunosensor for electrochemical detection of hepatitis B surface antigen. <i>Analytical Biochemistry</i> , <b>2013</b> , 441, 1-7	3.1	31
54	Colorimetric monitoring of rolling circle amplification for detection of H5N1 influenza virus using metal indicator. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 121-6	11.8	30
53	Real-time detection of H5N1 influenza virus through hyperbranched rolling circle amplification. <i>Analyst, The</i> , <b>2015</b> , 140, 1502-9	5	29
52	A superoxide dismutase mimic nanocomposite for amperometric sensing of superoxide anions. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1045-1053	5.8	28
51	Microfluidic-aided fabrication of nanoparticles blend based on chitosan for a transdermal multidrug delivery application. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 99, 433-442	7.9	24
50	Silver-gold-apoferritin nanozyme for suppressing oxidative stress during cryopreservation. <i>Materials Science and Engineering C</i> , <b>2019</b> , 94, 831-840	8.3	23
49	An investigation on the interaction modes of a single-strand DNA aptamer and RBP4 protein: a molecular dynamic simulations approach. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 8141-53	3.9	22
48	Sensitive Superoxide Biosensor Based on Silicon Carbide Nanoparticles. <i>Electroanalysis</i> , <b>2010</b> , 22, 1599-1606		22
47	Choline oxidase as a selective recognition element for determination of paraoxon. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2509-14	11.8	21
46	Superoxide radical biosensor based on a nano-composite containing cytochrome c. <i>Analyst, The</i> , <b>2011</b> , 136, 3803-8	5	20

45	Quantum Dot-Based Biosensor for the Detection of Human T-Lymphotropic Virus-1. <i>Analytical Letters</i> , <b>2017</b> , 50, 2402-2411	2.2	19
44	Different behaviors of single and multi wall carbon nanotubes for studying electrochemistry and electrocatalysis of choline oxidase. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 9542-9548	6.7	19
43	Nafion-Methylene Blue Functional Membrane and Its Application in Chemical and Biosensing. <i>Analytical Letters</i> , <b>2007</b> , 40, 483-496	2.2	19
42	Human T-lymphotropic virus 1 (HTLV-1) pathogenesis: A systems virology study. <i>Journal of Cellular Biochemistry</i> , <b>2018</b> , 119, 3968-3979	4.7	19
41	A nanocomposite based biosensor for cholesterol determination. <i>Analytical Methods</i> , <b>2012</b> , 4, 3225	3.2	17
40	A genosensor for detection of HTLV-I based on photoluminescence quenching of fluorescent carbon dots in presence of iron magnetic nanoparticle-capped Au. <i>Scientific Reports</i> , <b>2018</b> , 8, 15593	4.9	17
39	Amine functionalized TiO <sub>2</sub> /Carbon nanotube composite: synthesis, characterization and application to glucose biosensing. <i>Applied Nanoscience (Switzerland)</i> , <b>2011</b> , 1, 189-195	3.3	16
38	Albumin coated copper-cysteine nanozyme for reducing oxidative stress induced during sperm cryopreservation. <i>Bioorganic Chemistry</i> , <b>2018</b> , 80, 621-630	5.1	15
37	Ionic liquid/graphene oxide as a nanocomposite for improving the direct electrochemistry and electrocatalytic activity of glucose oxidase. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 183-189	2.6	14
36	The electrochemical study of glucose oxidase on gold-coated magnetic iron oxide nanoparticles. <i>Journal of Analytical Chemistry</i> , <b>2015</b> , 70, 1254-1260	1.1	13
35	Gold nanoparticle based capacitive immunosensor for detection of hepatitis B surface antigen. <i>Analytical Methods</i> , <b>2013</b> , 5, 4448	3.2	13
34	Effect of hydrophilicity of room temperature ionic liquids on the electrochemical and electrocatalytic behaviour of choline oxidase. <i>Analyst, The</i> , <b>2012</b> , 137, 471-5	5	12
33	Accelerating the electron transfer of choline oxidase using ionic-liquid/NH <sub>2</sub> -MWCNTs nano-composite. <i>Journal of the Iranian Chemical Society</i> , <b>2012</b> , 9, 111-119	2	12
32	Direct electrochemistry of chemically modified catalase immobilized on an oxidatively activated glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 7-14	2.6	12
31	Ultrasensitive interdigitated capacitance immunosensor using gold nanoparticles. <i>Nanotechnology</i> , <b>2018</b> , 29, 265102	3.4	11
30	Ultrasensitive electrochemical biosensor for detection of microRNA-155 as a breast cancer risk factor. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1136, 1-8	6.6	11
29	Electrochemistry and molecular modeling of the hemoglobin/Benzene interaction with a nanocrystalline mixed metal oxide. <i>RSC Advances</i> , <b>2014</b> , 4, 49128-49136	3.7	10
28	Gold nanorods etching as a powerful signaling process for plasmonic multicolorimetric chemo-/biosensors: Strategies and applications. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 442, 213934	23.2	10

27	Simple and rapid method for synthesis of porous gold nanoparticles and its application in improving DNA loading capacity. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109795	8.3	9
26	Enhancement of ethanol-oxygen biofuel cell output using a CNT based nano-composite as bioanode. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 78, 337-343	11.8	9
25	Cytochrome c embraced in sodium dodecyl sulfate nano-micelle as a homogeneous nanostructured peroxidase. <i>Journal of the Iranian Chemical Society</i> , <b>2012</b> , 9, 775-782	2	9
24	Aptamer-Conjugated Calcium Phosphate Nanoparticles for Reducing Diabetes Risk via Retinol Binding Protein 4 Inhibition. <i>Canadian Journal of Diabetes</i> , <b>2017</b> , 41, 305-311	2.1	7
23	A sample volume independent paper microfluidic device for quantifying glucose in real human plasma. <i>Microfluidics and Nanofluidics</i> , <b>2020</b> , 24, 1	2.8	7
22	Albumin coated cadmium nanoparticles as chemotherapeutic agent against MDA-MB 231 human breast cancer cell line. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2018</b> , 46, 787-797	6.1	6
21	Direct Electrochemistry of Artificial Peroxidase Based on Self-Assembled Cytochrome c-SDS-Nano-Micelle. <i>Analytical Letters</i> , <b>2012</b> , 45, 2221-2235	2.2	6
20	High-performance porphyrin-like graphene quantum dots for immuno-sensing of Salmonella typhi. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 188, 113334	11.8	6
19	Microfluidic-assisted production of poly( $\epsilon$ -caprolactone) and cellulose acetate nanoparticles: effects of polymers, surfactants, and flow rate ratios. <i>Polymer Bulletin</i> , <b>2020</b> , 78, 5449	2.4	5
18	Ethanol/O <sub>2</sub> biofuel cell using a biocathode consisting of laccase/HOOC-MWCNTs/polydiallyldimethylammonium chloride. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 86, 127-33	3.8	5
17	Direct Voltammetry of Copper, Zinc-Superoxide Dismutase Immobilized onto Electrodeposited Nickel Oxide Nanoparticles: Fabrication of Amperometric Superoxide Biosensor. <i>Electroanalysis</i> , <b>2011</b> , 23, n/a-n/a	3	5
16	Ultrasensitive nano-aptasensor for monitoring retinol binding protein 4 as a biomarker for diabetes prognosis at early stages. <i>Scientific Reports</i> , <b>2020</b> , 10, 594	4.9	5
15	Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 463	5.8	5
14	Microfluidic-based synthesized carboxymethyl chitosan nanoparticles containing metformin for diabetes therapy: In vitro and in vivo assessments. <i>Carbohydrate Polymers</i> , <b>2021</b> , 261, 117889	10.3	5
13	An efficient microbial fuel cell using a CNT/BTIL based nanocomposite. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7979-7991	13	4
12	New insight on biological interaction analysis: new nanocrystalline mixed metal oxide SPME fiber for GC-FID analysis of BTEX and its application in human hemoglobin-benzene interaction studies. <i>PLoS ONE</i> , <b>2014</b> , 9, e102992	3.7	4
11	A soft-template nanostructured peroxidase based on cytochrome c and sodium decyl sulfate and its electrochemical properties on hydroxyl fullerenes modified glassy carbon electrode. <i>Journal of the Iranian Chemical Society</i> , <b>2016</b> , 13, 471-479	2	3
10	Performance of gold- and silver-coated magnetic nanoparticles as carriers for horseradish peroxidase. <i>Journal of the Iranian Chemical Society</i> , <b>2013</b> , 10, 1113-1121	2	3

9	A nano self-assembled artificial peroxidase: spectroscopic and electrochemical investigations. <i>Journal of the Iranian Chemical Society</i> , <b>2014</b> , 11, 1397-1405	2	3
8	Capacitively-induced pulsed-field gel electrophoresis: a novel method for DNA separation. <i>Medical Engineering and Physics</i> , <b>2005</b> , 27, 723-7	2.4	3
7	Long segment detection of HTLV-1 genome based on the fluorescence quenching technique. <i>Heliyon</i> , <b>2018</b> , 4, e00996	3.6	3
6	Different electrochemical behavior of adult and fetal hemoglobin at ionic liquid-carbon nanotube nanocomposite. <i>Journal of the Iranian Chemical Society</i> , <b>2015</b> , 12, 687-694	2	2
5	Horseradish Peroxidase Immobilization on Amine Functionalized Carbon Nano Tubes: Direct Electrochemistry and Bioelectrocatalysis. <i>Progress in Reaction Kinetics and Mechanism</i> , <b>2012</b> , 37, 161-172 <sup>0.5</sup>		2
4	A Biocompatible Nanocomposite for Glucose Sensing. <i>International Journal of Electrochemistry</i> , <b>2011</b> , 2011, 1-7	2.4	1
3	A silver(I) doped bud-like DNA nanostructure as a dual-functional nanolabel for voltammetric discrimination of methylated from unmethylated genes. <i>Mikrochimica Acta</i> , <b>2018</b> , 186, 38	5.8	1
2	Ferromagnetic properties of iron-porphyrin-like structurally deformed graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2022</b> , 139, 115165	3	0
1	Effects of substituted metal-free porphyrins in apo-horseradish peroxidase. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2007</b> , 11, 836-845	1.8	