

# Hedayatollah Ghourchian

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,373  
citations

331259

21  
h-index

377514

34  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytotoxic effect of albumin coated copper nanoparticle on human breast cancer cells of MDA-MB 231. PLoS ONE, 2017, 12, e0188639.	1.1	89
2	Ionic-liquid/NH <sub>2</sub> -MWCNTs as a highly sensitive nano-composite for catalase direct electrochemistry. Biosensors and Bioelectronics, 2010, 25, 1301-1306.	5.3	84
3	Ultrasensitive optical biosensor for detection of miRNA-155 using positively charged Au nanoparticles. Scientific Reports, 2018, 8, 2943.	1.6	80
4	Direct electron transfer of horseradish peroxidase on Nafion-cysteine modified gold electrode. Electrochimica Acta, 2007, 52, 6261-6267.	2.6	67
5	Direct electrochemistry of glucose oxidase and glucose biosensing on a hydroxyl fullerenes modified glassy carbon electrode. Biosensors and Bioelectronics, 2014, 60, 30-34.	5.3	62
6	Graphene-Multiwalled Carbon Nanotube Hybrids Synthesized by Gamma Radiations: Application as a Glucose Sensor. Journal of Nanotechnology, 2014, 2014, 1-10.	1.5	60
7	Magnetic nanoparticle-based immunosensor for electrochemical detection of hepatitis B surface antigen. Analytical Biochemistry, 2013, 441, 1-7.	1.1	41
8	A superoxide dismutase mimic nanocomposite for amperometric sensing of superoxide anions. Mikrochimica Acta, 2015, 182, 1045-1053.	2.5	41
9	Gold nanorods etching as a powerful signaling process for plasmonic multicolorimetric chemo-/biosensors: Strategies and applications. Coordination Chemistry Reviews, 2021, 442, 213934.	9.5	40
10	Real-time detection of H <sub>5N1</sub> influenza virus through hyperbranched rolling circle amplification. Analyst, The, 2015, 140, 1502-1509.	1.7	39
11	Colorimetric monitoring of rolling circle amplification for detection of H5N1 influenza virus using metal indicator. Biosensors and Bioelectronics, 2015, 72, 121-126.	5.3	37
12	Silver-gold-apoferritin nanozyme for suppressing oxidative stress during cryopreservation. Materials Science and Engineering C, 2019, 94, 831-840.	3.8	36
13	Ultrasensitive electrochemical biosensor for detection of microRNA-155 as a breast cancer risk factor. Analytica Chimica Acta, 2020, 1136, 1-8.	2.6	36
14	A gold nanoparticle-based immunosensor for the chemiluminescence detection of the hepatitis B surface antigen. Analytical Methods, 2014, 6, 5059-5066.	1.3	34
15	An investigation on the interaction modes of a single-strand DNA aptamer and RBP4 protein: a molecular dynamic simulations approach. Organic and Biomolecular Chemistry, 2016, 14, 8141-8153.	1.5	32
16	Microfluidic-aided fabrication of nanoparticles blend based on chitosan for a transdermal multidrug delivery application. International Journal of Biological Macromolecules, 2017, 99, 433-442.	3.6	31
17	A genosensor for detection of HTLV-I based on photoluminescence quenching of fluorescent carbon dots in presence of iron magnetic nanoparticle-capped Au. Scientific Reports, 2018, 8, 15593.	1.6	29
18	Human T-cell lymphotropic virus 1 (HTLV-1) pathogenesis: A systems virology study. Journal of Cellular Biochemistry, 2018, 119, 3968-3979.	1.2	26

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19	Choline oxidase as a selective recognition element for determination of paraoxon. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2509-2514.	5.3	23
20	Sensitive Superoxide Biosensor Based on Silicon Carbide Nanoparticles. <i>Electroanalysis</i> , 2010, 22, 1599-1606.	1.5	23
21	Quantum Dot-Based Biosensor for the Detection of Human T-Lymphotropic Virus-1. <i>Analytical Letters</i> , 2017, 50, 2402-2411.	1.0	22
22	High-performance porphyrin-like graphene quantum dots for immuno-sensing of <i>Salmonella typhi</i> . <i>Biosensors and Bioelectronics</i> , 2021, 188, 113334.	5.3	22
23	Nafion®Methylene Blue Functional Membrane and Its Application in Chemical and Biosensing. <i>Analytical Letters</i> , 2007, 40, 483-496.	1.0	21
24	Albumin coated copper-cysteine nanozyme for reducing oxidative stress induced during sperm cryopreservation. <i>Bioorganic Chemistry</i> , 2018, 80, 621-630.	2.0	21
25	Superoxide radical biosensor based on a nano-composite containing cytochrome c. <i>Analyst, The</i> , 2011, 136, 3803.	1.7	20
26	Different behaviors of single and multi wall carbon nanotubes for studying electrochemistry and electrocatalysis of choline oxidase. <i>Electrochimica Acta</i> , 2011, 56, 9542-9548.	2.6	20
27	A nanocomposite based biosensor for cholesterol determination. <i>Analytical Methods</i> , 2012, 4, 3225.	1.3	20
28	Amine functionalized TiO <sub>2</sub> @carbon nanotube composite: synthesis, characterization and application to glucose biosensing. <i>Applied Nanoscience (Switzerland)</i> , 2011, 1, 189-195.	1.6	19
29	Gold nanoparticle based capacitive immunosensor for detection of hepatitis B surface antigen. <i>Analytical Methods</i> , 2013, 5, 4448.	1.3	19
30	A sample volume independent paper microfluidic device for quantifying glucose in real human plasma. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	17
31	Microfluidic-based synthesized carboxymethyl chitosan nanoparticles containing metformin for diabetes therapy: In vitro and in vivo assessments. <i>Carbohydrate Polymers</i> , 2021, 261, 117889.	5.1	17
32	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> , 2013, 17, 183-189.	1.2	16
33	Effect of hydrophilicity of room temperature ionic liquids on the electrochemical and electrocatalytic behaviour of choline oxidase. <i>Analyst, The</i> , 2012, 137, 471-475.	1.7	15
34	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> , 2019, 103, 109795.	3.8	15
35	The electrochemical study of glucose oxidase on gold-coated magnetic iron oxide nanoparticles. <i>Journal of Analytical Chemistry</i> , 2015, 70, 1254-1260.	0.4	14
36	Direct electrochemistry of chemically modified catalase immobilized on an oxidatively activated glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 7-14.	1.5	13

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37	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> , 2012, 9, 111-119.	1.2	13
38	Ultrasensitive interdigitated capacitance immunosensor using gold nanoparticles. <i>Nanotechnology</i> , 2018, 29, 265102.	1.3	13
39	Microfluidic-assisted production of poly( $\epsilon$ -caprolactone) and cellulose acetate nanoparticles: effects of polymers, surfactants, and flow rate ratios. <i>Polymer Bulletin</i> , 2021, 78, 5449-5466.	1.7	13
40	Ultrasensitive nano-aptasensor for monitoring retinol binding protein 4 as a biomarker for diabetes prognosis at early stages. <i>Scientific Reports</i> , 2020, 10, 594.	1.6	13
41	Enhancement of ethanol-oxygen biofuel cell output using a CNT based nano-composite as bioanode. <i>Biosensors and Bioelectronics</i> , 2016, 78, 337-343.	5.3	12
42	Albumin coated cadmium nanoparticles as chemotherapeutic agent against MDA-MB 231 human breast cancer cell line. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 787-797.	1.9	12
43	Cytochrome c embraced in sodium dodecyl sulfate nano-micelle as a homogeneous nanostructured peroxidase. <i>Journal of the Iranian Chemical Society</i> , 2012, 9, 775-782.	1.2	11
44	Electrochemistry and molecular modeling of the hemoglobin-benzene interaction with a nanocrystalline mixed metal oxide. <i>RSC Advances</i> , 2014, 4, 49128-49136.	1.7	10
45	Aptamer-Conjugated Calcium Phosphate Nanoparticles for Reducing Diabetes Risk via Retinol Binding Protein 4 Inhibition. <i>Canadian Journal of Diabetes</i> , 2017, 41, 305-311.	0.4	10
46	Direct Electrochemistry of Artificial Peroxidase Based on Self-Assembled Cytochrome c-SDS-Nano-Micelle. <i>Analytical Letters</i> , 2012, 45, 2221-2235.	1.0	7
47	Direct Voltammetry of Copper, Zinc-Superoxide Dismutase Immobilized onto Electrodeposited Nickel Oxide Nanoparticles: Fabrication of Amperometric Superoxide Biosensor. <i>Electroanalysis</i> , 2011, 23, 683-691.	1.5	6
48	Ethanol/O <sub>2</sub> biofuel cell using a biocathode consisting of laccase/HOOC-MWCNTs/polydiallyldimethylammonium chloride. <i>Enzyme and Microbial Technology</i> , 2016, 86, 127-133.	1.6	6
49	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> , 2016, 13, 471-479.	1.2	6
50	Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , 2020, 187, 463.	2.5	6
51	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> , 2014, 9, e102992.	1.1	5
52	An efficient microbial fuel cell using a CNT-RTIL based nanocomposite. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7979-7991.	5.2	5
53	Capacitively-induced pulsed-field gel electrophoresis: A novel method for DNA separation. <i>Medical Engineering and Physics</i> , 2005, 27, 723-727.	0.8	4
54	A nano self-assembled artificial peroxidase: spectroscopic and electrochemical investigations. <i>Journal of the Iranian Chemical Society</i> , 2014, 11, 1397-1405.	1.2	4

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55	A Biocompatible Nanocomposite for Glucose Sensing. International Journal of Electrochemistry, 2011, 2011, 1-7.	2.4	3
56	Performance of gold- and silver-coated magnetic nanoparticles as carriers for horseradish peroxidase. Journal of the Iranian Chemical Society, 2013, 10, 1113-1121.	1.2	3
57	Different electrochemical behavior of adult and fetal hemoglobin at ionic liquid-carbon nanotube nanocomposite. Journal of the Iranian Chemical Society, 2015, 12, 687-694.	1.2	3
58	Long segment detection of HTLV-1 genome based on the fluorescence quenching technique. Heliyon, 2018, 4, e00996.	1.4	3
59	Horseradish Peroxidase Immobilization on Amine Functionalized Carbon Nano Tubes: Direct Electrochemistry and Bioelectrocatalysis. Progress in Reaction Kinetics and Mechanism, 2012, 37, 161-172.	1.1	2
60	A silver(I) doped bud-like DNA nanostructure as a dual-functional nanolabel for voltammetric discrimination of methylated from unmethylated genes. Mikrochimica Acta, 2019, 186, 38.	2.5	1
61	Ferromagnetic properties of iron-porphyrin-like structurally deformed graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115165.	1.3	1
62	Effects of substituted metal-free porphyrins in apo-horseradish peroxidase. Journal of Porphyrins and Phthalocyanines, 2007, 11, 836-845.	0.4	0