

Hedayatollah Ghourchian

List of Publications by Year in Descending Order

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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 | Ferromagnetic properties of iron-porphyrin-like structurally deformed graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 139, 115165 | 3 | 0 |
| 61 | Microfluidic-based synthesized carboxymethyl chitosan nanoparticles containing metformin for diabetes therapy: In vitro and in vivo assessments. <i>Carbohydrate Polymers</i> , 2021 , 261, 117889 | 10.3 | 5 |
| 60 | Gold nanorods etching as a powerful signaling process for plasmonic multicolorimetric chemo-/biosensors: Strategies and applications. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 213934 | 23.2 | 10 |
| 59 | High-performance porphyrin-like graphene quantum dots for immuno-sensing of Salmonella typhi. <i>Biosensors and Bioelectronics</i> , 2021 , 188, 113334 | 11.8 | 6 |
| 58 | Microfluidic-assisted production of poly(ϵ -caprolactone) and cellulose acetate nanoparticles: effects of polymers, surfactants, and flow rate ratios. <i>Polymer Bulletin</i> , 2020 , 78, 5449 | 2.4 | 5 |
| 57 | 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 | 4.9 | 5 |
| 56 | Ultrasensitive electrochemical biosensor for detection of microRNA-155 as a breast cancer risk factor. <i>Analytica Chimica Acta</i> , 2020 , 1136, 1-8 | 6.6 | 11 |
| 55 | Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , 2020 , 187, 463 | 5.8 | 5 |
| 54 | A sample volume independent paper microfluidic device for quantifying glucose in real human plasma. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1 | 2.8 | 7 |
| 53 | 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 | 8.3 | 9 |
| 52 | Silver-gold-apoferritin nanozyme for suppressing oxidative stress during cryopreservation. <i>Materials Science and Engineering C</i> , 2019 , 94, 831-840 | 8.3 | 23 |
| 51 | Ultrasensitive interdigitated capacitance immunosensor using gold nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 265102 | 3.4 | 11 |
| 50 | Ultrasensitive optical biosensor for detection of miRNA-155 using positively charged Au nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 2943 | 4.9 | 48 |
| 49 | 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 | 6.1 | 6 |
| 48 | Albumin coated copper-cysteine nanozyme for reducing oxidative stress induced during sperm cryopreservation. <i>Bioorganic Chemistry</i> , 2018 , 80, 621-630 | 5.1 | 15 |
| 47 | 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> , 2018 , 186, 38 | 5.8 | 1 |
| 46 | Human T-lymphotropic virus 1 (HTLV-1) pathogenesis: A systems virology study. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 3968-3979 | 4.7 | 19 |

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|----|---|------|----|
| 45 | Long segment detection of HTLV-1 genome based on the fluorescence quenching technique. <i>Heliyon</i> , 2018 , 4, e00996 | 3.6 | 3 |
| 44 | 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> , 2018 , 8, 15593 | 4.9 | 17 |
| 43 | 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 | 2.1 | 7 |
| 42 | Microfluidic-aided fabrication of nanoparticles blend based on chitosan for a transdermal multidrug delivery application. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 433-442 | 7.9 | 24 |
| 41 | An efficient microbial fuel cell using a CNT/BTIL based nanocomposite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7979-7991 | 13 | 4 |
| 40 | Cytotoxic effect of albumin coated copper nanoparticle on human breast cancer cells of MDA-MB 231. <i>PLoS ONE</i> , 2017 , 12, e0188639 | 3.7 | 67 |
| 39 | Quantum Dot-Based Biosensor for the Detection of Human T-Lymphotropic Virus-1. <i>Analytical Letters</i> , 2017 , 50, 2402-2411 | 2.2 | 19 |
| 38 | 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 | 2 | 3 |
| 37 | 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> , 2016 , 14, 8141-53 | 3.9 | 22 |
| 36 | Ethanol/O ₂ biofuel cell using a biocathode consisting of laccase/HOOC-MWCNTs/polydiallyldimethylammonium chloride. <i>Enzyme and Microbial Technology</i> , 2016 , 86, 127-33 | 3.8 | 5 |
| 35 | Enhancement of ethanol-oxygen biofuel cell output using a CNT based nano-composite as bioanode. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 337-343 | 11.8 | 9 |
| 34 | Colorimetric monitoring of rolling circle amplification for detection of H5N1 influenza virus using metal indicator. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 121-6 | 11.8 | 30 |
| 33 | The electrochemical study of glucose oxidase on gold-coated magnetic iron oxide nanoparticles. <i>Journal of Analytical Chemistry</i> , 2015 , 70, 1254-1260 | 1.1 | 13 |
| 32 | A superoxide dismutase mimic nanocomposite for amperometric sensing of superoxide anions. <i>Mikrochimica Acta</i> , 2015 , 182, 1045-1053 | 5.8 | 28 |
| 31 | Different electrochemical behavior of adult and fetal hemoglobin at ionic liquid-carbon nanotube nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2015 , 12, 687-694 | 2 | 2 |
| 30 | Real-time detection of H5N1 influenza virus through hyperbranched rolling circle amplification. <i>Analyst, The</i> , 2015 , 140, 1502-9 | 5 | 29 |
| 29 | Direct electrochemistry of glucose oxidase and glucose biosensing on a hydroxyl fullerenes modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 30-4 | 11.8 | 49 |
| 28 | A gold nanoparticle-based immunosensor for the chemiluminescence detection of the hepatitis B surface antigen. <i>Analytical Methods</i> , 2014 , 6, 5059-5066 | 3.2 | 31 |

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|----|--|-----|----|
| 27 | Electrochemistry and molecular modeling of the hemoglobin-Benzene interaction with a nanocrystalline mixed metal oxide. <i>RSC Advances</i> , 2014 , 4, 49128-49136 | 3.7 | 10 |
| 26 | 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 | 3.7 | 4 |
| 25 | Graphene-Multiwalled Carbon Nanotube Hybrids Synthesized by Gamma Radiations: Application as a Glucose Sensor. <i>Journal of Nanotechnology</i> , 2014 , 2014, 1-10 | 3.5 | 40 |
| 24 | A nano self-assembled artificial peroxidase: spectroscopic and electrochemical investigations. <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 1397-1405 | 2 | 3 |
| 23 | Performance of gold- and silver-coated magnetic nanoparticles as carriers for horseradish peroxidase. <i>Journal of the Iranian Chemical Society</i> , 2013 , 10, 1113-1121 | 2 | 3 |
| 22 | Magnetic nanoparticle-based immunosensor for electrochemical detection of hepatitis B surface antigen. <i>Analytical Biochemistry</i> , 2013 , 441, 1-7 | 3.1 | 31 |
| 21 | Gold nanoparticle based capacitive immunosensor for detection of hepatitis B surface antigen. <i>Analytical Methods</i> , 2013 , 5, 4448 | 3.2 | 13 |
| 20 | 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 | 2.6 | 14 |
| 19 | A nanocomposite based biosensor for cholesterol determination. <i>Analytical Methods</i> , 2012 , 4, 3225 | 3.2 | 17 |
| 18 | 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 | 2 | 9 |
| 17 | Direct Electrochemistry of Artificial Peroxidase Based on Self-Assembled Cytochrome c-SDS-Nano-Micelle. <i>Analytical Letters</i> , 2012 , 45, 2221-2235 | 2.2 | 6 |
| 16 | Effect of hydrophilicity of room temperature ionic liquids on the electrochemical and electrocatalytic behaviour of choline oxidase. <i>Analyst, The</i> , 2012 , 137, 471-5 | 5 | 12 |
| 15 | Accelerating the electron transfer of choline oxidase using ionic-liquid/NH ₂ -MWCNTs nano-composite. <i>Journal of the Iranian Chemical Society</i> , 2012 , 9, 111-119 | 2 | 12 |
| 14 | Horseradish Peroxidase Immobilization on Amine Functionalized Carbon Nano Tubes: Direct Electrochemistry and Bioelectrocatalysis. <i>Progress in Reaction Kinetics and Mechanism</i> , 2012 , 37, 161-172 ^{0.5} | | 2 |
| 13 | Superoxide radical biosensor based on a nano-composite containing cytochrome c. <i>Analyst, The</i> , 2011 , 136, 3803-8 | 5 | 20 |
| 12 | 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 | 6.7 | 19 |
| 11 | Amine functionalized TiO ₂ /carbon nanotube composite: synthesis, characterization and application to glucose biosensing. <i>Applied Nanoscience (Switzerland)</i> , 2011 , 1, 189-195 | 3.3 | 16 |
| 10 | Direct Voltammetry of Copper, Zinc-Superoxide Dismutase Immobilized onto Electrodeposited Nickel Oxide Nanoparticles: Fabrication of Amperometric Superoxide Biosensor. <i>Electroanalysis</i> , 2011 , 23, n/a-n/a | 3 | 5 |

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| 9 | A Biocompatible Nanocomposite for Glucose Sensing. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-7 | 2.4 | 1 |
| 8 | Sensitive Superoxide Biosensor Based on Silicon Carbide Nanoparticles. <i>Electroanalysis</i> , 2010 , 22, 1599-1606 | | 22 |
| 7 | Ionic-liquid/NH ₂ -MWCNTs as a highly sensitive nano-composite for catalase direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1301-6 | 11.8 | 74 |
| 6 | Direct electrochemistry of chemically modified catalase immobilized on an oxidatively activated glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 7-14 | 2.6 | 12 |
| 5 | Choline oxidase as a selective recognition element for determination of paraoxon. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2509-14 | 11.8 | 21 |
| 4 | Direct electron transfer of horseradish peroxidase on Nafion-cysteine modified gold electrode. <i>Electrochimica Acta</i> , 2007 , 52, 6261-6267 | 6.7 | 60 |
| 3 | Effects of substituted metal-free porphyrins in apo-horseradish peroxidase. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007 , 11, 836-845 | 1.8 | |
| 2 | Nafion-Methylene Blue Functional Membrane and Its Application in Chemical and Biosensing. <i>Analytical Letters</i> , 2007 , 40, 483-496 | 2.2 | 19 |
| 1 | Capacitively-induced pulsed-field gel electrophoresis: a novel method for DNA separation. <i>Medical Engineering and Physics</i> , 2005 , 27, 723-7 | 2.4 | 3 |