

Ali Reza Allafchian

List of Publications by Citations

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104
papers

1,713
citations

23
h-index

35
g-index

110
ext. papers

2,041
ext. citations

3.8
avg, IF

5.47
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 104 | Green synthesis of silver nanoparticles using phlomis leaf extract and investigation of their antibacterial activity. <i>Journal of Nanostructure in Chemistry</i> , 2016 , 6, 129-135 | 7.6 | 79 |
| 103 | Development and characterization of electrosprayed Alyssum homolocarpum seed gum nanoparticles for encapsulation of d-limonene. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 562-575 | 9.3 | 74 |
| 102 | Fast and sensitive determination of captopril by voltammetric method using ferrocenedicarboxylic acid modified carbon paste electrode. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 9-15 | 2.6 | 74 |
| 101 | Multiwall carbon nanotubes decorated with NiFe ₂ O ₄ magnetic nanoparticles, a new catalyst for voltammetric determination of cefixime. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 687-93 | 6 | 64 |
| 100 | Biosynthesis of silver nanoparticles using Capparis spinosa L. leaf extract and their antibacterial activity. <i>Karbala International Journal of Modern Science</i> , 2016 , 2, 251-258 | 4.6 | 62 |
| 99 | Simultaneous determination of guanine and adenine in DNA based on NiFe ₂ O ₄ magnetic nanoparticles decorated MWCNTs as a novel electrochemical sensor using adsorptive stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 634-642 | 8.5 | 53 |
| 98 | Characterization of MgFe ₂ O ₄ nanoparticles as a novel electrochemical sensor: application for the voltammetric determination of ciprofloxacin. <i>Analytical Sciences</i> , 2012 , 28, 705-10 | 1.7 | 52 |
| 97 | Application of cress seed musilage magnetic nanocomposites for removal of methylene blue dye from water. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 199-208 | 7.9 | 46 |
| 96 | Effect of bonding temperature on the microstructure and mechanical properties of Ti-6Al-4V to AISI 304 transient liquid phase bonded joint. <i>Materials and Design</i> , 2016 , 99, 543-551 | 8.1 | 43 |
| 95 | NiFe ₂ O ₄ nanoparticles decorated with MWCNTs as a selective and sensitive electrochemical sensor for the determination of epinephrine using differential pulse voltammetry. <i>Analytical Methods</i> , 2014 , 6, 6885-6892 | 3.2 | 43 |
| 94 | A non-enzymatic sensor based on three-dimensional graphene foam decorated with Cu-xCuO nanoparticles for electrochemical detection of glucose and its application in human serum. <i>Materials Science and Engineering C</i> , 2020 , 108, 110216 | 8.3 | 40 |
| 93 | Voltammetric behavior of dopamine at a glassy carbon electrode modified with NiFe ₂ O ₄ magnetic nanoparticles decorated with multiwall carbon nanotubes. <i>Materials Science and Engineering C</i> , 2014 , 39, 78-85 | 8.3 | 39 |
| 92 | Synthesis and characterization of basil seed mucilage coated FeO magnetic nanoparticles as a drug carrier for the controlled delivery of cephalexin. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 317-328 | 7.9 | 36 |
| 91 | Characterization of carbon nanotubes decorated with NiFe ₂ O ₄ magnetic nanoparticles as a novel electrochemical sensor: application for highly selective determination of sotalol using voltammetry. <i>Materials Science and Engineering C</i> , 2013 , 33, 202-8 | 8.3 | 36 |
| 90 | Preparation, characterization, and antibacterial activity of NiFe ₂ O ₄ /PAMA/Ag ^{III} IO ₂ nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 404, 14-20 | 2.8 | 30 |
| 89 | Novel and selective potentiometric membrane sensor for amiloride determination in pharmaceutical compounds and urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 802-6 ^{3.5} | 3.5 | 30 |
| 88 | Highly Selective Potentiometric Membrane Sensor for Hg(II) Based on Bis(Benzoyl Acetone) Diethylene Triamine. <i>IEEE Sensors Journal</i> , 2008 , 8, 248-254 | 4 | 29 |

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| 87 | A ternary nanofibrous scaffold potential for central nerve system tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2394-2401 | 5.4 | 28 |
| 86 | Magnetic solid-phase extraction to preconcentrate ultra trace amounts of lead(II) using modified-carbon nanotubes decorated with NiFe ₂ O ₄ magnetic nanoparticles. <i>Analytical Methods</i> , 2013 , 5, 3903 | 3.2 | 26 |
| 85 | Green synthesis, characterization and antibacterial activity of silver nanoparticles from root extract of <i>Lepidium draba</i> weed. <i>Green Chemistry Letters and Reviews</i> , 2017 , 10, 324-330 | 4.7 | 25 |
| 84 | A sensitive and selective voltammetric sensor based on multiwall carbon nanotubes decorated with MgCr ₂ O ₄ for the determination of azithromycin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 468-74 | 6 | 25 |
| 83 | The effect of bonding time on the microstructure and mechanical properties of transient liquid phase bonding between SAF 2507 and AISI 304. <i>Journal of Manufacturing Processes</i> , 2017 , 25, 172-180 | 5 | 24 |
| 82 | Synthesis, characterization and antibacterial effect of new magnetically core-shell nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 394, 318-324 | 2.8 | 23 |
| 81 | Synthesis, characterization and antibacterial effect of poly(acrylonitrile/maleic acid) silver nanocomposite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 57, 154-159 | 5.3 | 23 |
| 80 | Encapsulation of D-limonene in <i>Alyssum homolocarpum</i> seed gum nanocapsules by emulsion electrospinning: Morphology characterization and stability assessment. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2018 , 16, 43-52 | 3.4 | 21 |
| 79 | Super magnetic nanoparticles NiFe ₂ O ₄ , coated with aluminum-nickel oxide sol-gel lattices to safe, sensitive and selective purification of his-tagged proteins. <i>Protein Expression and Purification</i> , 2016 , 121, 52-60 | 2 | 21 |
| 78 | A novel method for the determination of three volatile organic compounds in exhaled breath by solid-phase microextraction-ion mobility spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 839-47 | 4.4 | 21 |
| 77 | Fabrication of β -carotene loaded glucuronoxylan-based nanostructures through electrohydrodynamic processing. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 773-784 | 7.9 | 21 |
| 76 | Multiwall carbon nanotubes decorated with FeCr ₂ O ₄ , a new selective electrochemical sensor for amoxicillin determination. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1 | 2.3 | 21 |
| 75 | The antibacterial properties of Ag/TiO ₂ nanoparticles embedded in silane sol-gel matrix. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 66, 357-362 | 5.3 | 21 |
| 74 | Combined hollow fiber-based liquid-liquid-liquid microextraction and in-situ differential pulse voltammetry to improve selectivity, sensitivity, and interference elimination in electrochemical analysis. <i>Talanta</i> , 2010 , 82, 1588-93 | 6.2 | 20 |
| 73 | TiO ₂ nanotubes/reduced GO nanoparticles for sensitive detection of breast cancer cells and photothermal performance. <i>Talanta</i> , 2020 , 208, 120369 | 6.2 | 20 |
| 72 | Green synthesis of silver nanoparticles using (<i>L.</i>) <i>Curtis</i> extract and evaluation of its antibacterial activity. <i>IET Nanobiotechnology</i> , 2018 , 12, 574-578 | 2 | 19 |
| 71 | Electrospinning of PVA-carboxymethyl cellulose nanofibers for flufenamic acid drug delivery. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 1780-1786 | 7.9 | 19 |
| 70 | Green reduction of graphene oxide by ascorbic acid 2018 , | | 18 |

- 69 Corrosion protection of copper by silane sol-gel coatings. *Journal of Sol-Gel Science and Technology*, **2015**, 74, 800-809 2.3 17
- 68 Synthesis and characterization of the NiFe₂O₄@TEOS/PS@Ag nanocomposite and investigation of its antibacterial activity. *Applied Surface Science*, **2016**, 385, 506-514 6.7 17
- 67 Antibacterial magnetic nanoparticles for therapeutics: a review. *IET Nanobiotechnology*, **2019**, 13, 786-799 16
- 66 Assessment of antibacterial properties of novel silver nanocomposite. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 59, 506-513 5.3 15
- 65 Development of a new magnetic aluminum matrix nanocomposite. *Ceramics International*, **2018**, 44, 15079-15085 5.2 15
- 64 Examining the effect of different super hydrophobic nanomaterials on asphalt pavements. *Construction and Building Materials*, **2018**, 180, 285-290 6.7 14
- 63 In-situ differential pulse anodic stripping voltammetry combined with hollow fiber-based liquid-three phase micro extraction for determination of mercury using Au-nanoparticles sol-gel modified Pt-wire. *Talanta*, **2012**, 99, 335-41 6.2 14
- 62 Removal of nickel and cadmium heavy metals using nanofiber membranes functionalized with (3-mercaptopropyl)trimethoxysilane (TMPTMS). *Journal of Water and Health*, **2016**, 14, 630-9 2.2 14
- 61 Differential pulse voltammetric determination of methyl dopa using MWCNTs modified glassy carbon decorated with NiFe₂O₄ nanoparticles. *Ionics*, **2015**, 21, 1435-1444 2.7 13
- 60 Ocimum basilicum mucilage as a new green polymer support for silver in magnetic nanocomposites: Production and characterization. *Journal of Environmental Chemical Engineering*, **2017**, 5, 5912-5920 6.8 12
- 59 Highly selective differential pulse voltammetric determination of phenazopyridine using MgCr₂O₄ nanoparticles decorated MWCNTs-modified glassy carbon electrode. *Colloids and Surfaces B: Biointerfaces*, **2013**, 111, 270-6 6 11
- 58 Liquid three-phase microextraction based on hollow fiber for highly selective and sensitive determination of using an ion selective electrode. *Analytical Methods*, **2011**, 3, 463-470 3.2 11
- 57 Investigation on the Biodegradability and Antibacterial Properties of Nanohybrid Suture Based on Silver Incorporated PGA-PLGA Nanofibers. *Fibers and Polymers*, **2018**, 19, 2056-2065 2 11
- 56 Green synthesis of silver nanoparticles with the Aerial part of extract by antimicrobial analysis. *IET Nanobiotechnology*, **2018**, 12, 491-495 2 11
- 55 Fabrication and characterization of electrospun Plantago major seed mucilage/PVA nanofibers. *Journal of Applied Polymer Science*, **2019**, 136, 47852 2.9 10
- 54 Electrocatalytic reduction of CO₂ to CO by Gd(III) and Dy(III) complexes; and M₂O₃ nanoparticles (M = Gd and Dy). *Journal of CO₂ Utilization*, **2016**, 13, 61-70 7.6 10
- 53 A novel and facile method for silica nanoparticles synthesis from high temperature vulcanization (HTV) silicon. *Metallurgical and Materials Engineering*, **2016**, 22, 1-8 2 10
- 52 Toward a Highly Functional Hybrid ZnO Nanofiber/GO Gas Sensor. *Advanced Engineering Materials*, **2020**, 22, 2000005 3.5 9

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| 51 | A novel low cost method for the synthesis of ceramic nano silicon oxycarbide powder. <i>Ceramics International</i> , 2016 , 42, 8531-8536 | 5.1 | 9 |
| 50 | Potentiometric sensor for Betahistine determination in pharmaceuticals, urine and blood serum. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 2246-2253 | 1.5 | 9 |
| 49 | Highly Selective Potentiometric Sensor for Determining Phenazopyridine Hydrochloride in Biological Fluids Using N,N?-(Pyromellitoyl)-bis-L-tyrosine Dimethyl Ester. <i>Analytical Letters</i> , 2010 , 43, 2848-2858 | 2.2 | 9 |
| 48 | Potentiometric Sensor for the Determination of Dibucaine in Pharmaceutical Preparations and Electrochemical Study of the Drug with BSA. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 2722-2726 ^{1,2} | 1.2 | 9 |
| 47 | Preparation of cell culture scaffolds using polycaprolactone/quince seed mucilage. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1270-1276 | 7.9 | 9 |
| 46 | . <i>IEEE Sensors Journal</i> , 2017 , 17, 2856-2862 | 4 | 8 |
| 45 | Preparing of poly(acrylonitrile co maleic acid) nanofiber mats for removal of Ni(II) and Cr(VI) ions from water. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 80, 563-569 | 5.3 | 8 |
| 44 | A Paper-Based Analytical Device Based on Combination of Thin Film Microextraction and Reflection Scanometry for Sensitive Colorimetric Determination of Ni(II) in Aqueous Matrix. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018 , 100, 529-535 | 2.7 | 8 |
| 43 | Fabrication of tragacanth and water soluble tragacanth nanoparticles through electrospraying. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2036-2041 | 3.2 | 8 |
| 42 | Core-shell fabrication of an extra-antimicrobial magnetic agent with synergistic effect of substrate ligand to increase the antimicrobial activity of Ag nanoclusters. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 237-245 | 2.5 | 8 |
| 41 | An antibacterial study of a new magnetite silver nanocomposite. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5786-5792 | 6.8 | 8 |
| 40 | Proceeding toward the development of poly(ϵ -caprolactone)/cellulose microfibrils electrospun biocomposites using a novel ternary solvent system. <i>Journal of the Textile Institute</i> , 2020 , 111, 249-259 | 1.5 | 8 |
| 39 | Alyssum lepidium mucilage as a new source for electrospinning: production and physicochemical characterisation. <i>IET Nanobiotechnology</i> , 2018 , 12, 259-263 | 2 | 8 |
| 38 | Synthesis and characterization of magnetite/Alyssum homolocarpum seed gum/Ag nanocomposite and determination of its antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 1263-1271 | 7.9 | 7 |
| 37 | Removal of Ag and Cr Heavy Metals Using Nanofiber Membranes Functionalized with Aminopropyltriethoxysilane (APTES). <i>Current Nanoscience</i> , 2016 , 12, 266-274 | 1.4 | 7 |
| 36 | Flower-Like Self-Assembly of Diphenylalanine for Electrochemical Human Growth Hormone Biosensor. <i>IEEE Sensors Journal</i> , 2018 , 18, 8979-8985 | 4 | 7 |
| 35 | Facile preparation of chitosan-dopamine-inulin aldehyde hydrogel for drug delivery application. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 716-724 | 7.9 | 7 |
| 34 | Antibacterial activity of new magnetic Ag/TiO ₂ nanocomposite in silane sol-gel matrix. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12312-12319 | 2.1 | 6 |

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| 33 | Gundelia tournefortii L.: a natural source for the green synthesis of silver nanoparticles. <i>IET Nanobiotechnology</i> , 2017 , 11, 815-820 | 2 | 6 |
| 32 | A new glucose biosensor based on Nickel/KH550 nanocomposite deposited on the GCE: An electrochemical study. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 839, 9-15 | 4.1 | 6 |
| 31 | A comprehensive study on Plantago ovata/PVA biocompatible nanofibers: Fabrication, characterization, and biological assessment. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49560 | 2.9 | 6 |
| 30 | Fabrication of cellulose nanoparticles through electrospraying. <i>IET Nanobiotechnology</i> , 2018 , 12, 807-813 | | 6 |
| 29 | Biocompatible biodegradable polycaprolactone/basil seed mucilage scaffold for cell culture. <i>IET Nanobiotechnology</i> , 2018 , 12, 1108-1113 | 2 | 6 |
| 28 | Sol-gel synthesis of amorphous SiOC nanoparticles from BS290 silicone precursor. <i>Ceramics International</i> , 2017 , 43, 12898-12903 | 5.1 | 6 |
| 27 | A New Potentiometric Sensor for the Determination of Desipramine Based on N-(1-Naphthyl)Ethylendiamine Dihydrochloride-Tetraphenyl Borate. <i>IEEE Sensors Journal</i> , 2011 , 11, 2576-2582 | 4 | 6 |
| 26 | Determination of Xylene and Toluene by Solid-Phase Microextraction Using Au Nanoparticles-Thiol Silane Film Coupled to Ion Mobility Spectrometry. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 97, 670-676 | 2.7 | 6 |
| 25 | Glassy carbon electrode modified by new Copper(I) oxide nanocomposite for glucose detection: An electroanalysis study. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4834 | 3.1 | 5 |
| 24 | Biosynthesis of antibacterial silver nanoparticles using Astragalus versus Olivier. <i>Micro and Nano Letters</i> , 2020 , 15, 66-71 | 0.9 | 5 |
| 23 | Optical biosensing of Streptococcus agalactiae based on core/shell magnetic nanoparticle-quantum dot. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 6733-6743 | 4.4 | 5 |
| 22 | Rapid Determination of Pentazocine in Human Plasma and Urine by a Potentiometric Method. <i>Analytical Letters</i> , 2009 , 42, 571-583 | 2.2 | 5 |
| 21 | Electrosprayed Cerium Oxide Nanoparticles. <i>Journal of Electronic Materials</i> , 2018 , 47, 3779-3787 | 1.9 | 4 |
| 20 | Patterning protein conjugates into organized microarrays with diphenylalanine peptide nanotubes self-assembled on graphite and gold electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16910-16920 | 2.1 | 4 |
| 19 | Synthesis and characterization of antibacterial silver nanoparticles using essential oils of crown imperial leaves, bulbs and petals. <i>Micro and Nano Letters</i> , 2021 , 16, 533-539 | 0.9 | 4 |
| 18 | Desulfurization of gasoline using acrylonitrile electrospun nanofibers and lead nanoparticles. <i>International Journal of Environmental Science and Technology</i> , 2017 , 14, 1489-1496 | 3.3 | 3 |
| 17 | Synthesis and characterisation of Fe ₃ O ₄ at MPTMS at Au nanocomposite by sol-gel method for the removal of methylene blue. <i>Micro and Nano Letters</i> , 2018 , 13, 979-984 | 0.9 | 3 |
| 16 | A DNA-based coated wire membrane sensor for selective determination of amiloride in pharmaceutical compounds, plasma and urine. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 564-570 | 1.5 | 3 |

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| 15 | A Novel Selective Coated-Wire Potentiometric Sensor for Venlafaxine Determination in Pharmaceutical Compounds, Plasma and Urine. <i>Sensor Letters</i> , 2011 , 9, 479-484 | 0.9 | 3 |
| 14 | Effectiveness of superhydrophobic material on the hydroplaning risk of asphalt pavements. <i>International Journal of Pavement Engineering</i> , 2019 , 1-9 | 2.6 | 3 |
| 13 | Development of an electrochemical biosensor for vitamin B12 using D-phenylalanine nanotubes 2018 , | | 2 |
| 12 | Synthesis and Characterization of Ag/SiO ₂ Nanoparticles Embedded in TPS and TEOS Sol-gel Matrix with Excellent Antibacterial Activity. <i>Nanoscience and Nanotechnology - Asia</i> , 2018 , 8, | 0.7 | 2 |
| 11 | A Highly Selective Mercury(II) Ion-Selective Membrane Sensor. <i>Journal of the Korean Chemical Society</i> , 2007 , 51, 324-330 | | 2 |
| 10 | Preparation and structural characterisation of magnetic NiFe ₂ O ₄ @ABS@Ag nanocompound with antibacterial property. <i>Micro and Nano Letters</i> , 2019 , 14, 445-449 | 0.9 | 2 |
| 9 | Characterisation and investigation of antibacterial properties of nylon 66/TPS/Ag NPs nanofibre membranes. <i>Micro and Nano Letters</i> , 2018 , 13, 1747-1751 | 0.9 | 2 |
| 8 | Antibacterial and cytotoxic effects of silver nanoparticles fabricated by Eryngium billarderi Delar. Extract. <i>Chemical Physics Letters</i> , 2022 , 791, 139385 | 2.5 | 1 |
| 7 | Synthesis of antibacterial flower-like silver nanostructures by self-assembly of diphenylalanine peptide on graphite. <i>Micro and Nano Letters</i> , 2020 , 15, 486-489 | 0.9 | 1 |
| 6 | Design of a pDNA nanocarrier with ascorbic acid modified chitosan coated on superparamagnetic iron oxide nanoparticles for gene delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 632, 127743 | 5.1 | 1 |
| 5 | Preparation of amino silane magnetic nanocomposite by the sol-gel process and investigation of its antibacterial activity. <i>Micro and Nano Letters</i> , 2019 , 14, 196-201 | 0.9 | 1 |
| 4 | Design of green silver nanoparticles mediated by <i>Ferula ovina</i> Boiss. Extract with enhanced antibacterial effect. <i>Chemical Physics Letters</i> , 2022 , 791, 139392 | 2.5 | 0 |
| 3 | Fast fluorescent screening assay and dual electrochemical sensing of bacterial infection agent (<i>Streptococcus agalactiae</i>) based on a fluorescent-immune nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 352, 130968 | 8.5 | 0 |
| 2 | Fabrication of Fe ₃ O ₄ /Ag-TiO ₂ magnetic nanocomposite for antibacterial applications. <i>Micro and Nano Letters</i> , 2022 , 17, 9-15 | 0.9 | 0 |
| 1 | Effect of silane coating containing SiC nanoparticles on the corrosion behaviour of stainless steel 304. <i>Micro and Nano Letters</i> , 2018 , 13, 1203-1208 | 0.9 | |