

Ali Reza Allafchian

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.

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	Antibacterial and cytotoxic effects of silver nanoparticles fabricated by <i>Eryngium billarderi</i> Delar. Extract. <i>Chemical Physics Letters</i> , 2022 , 791, 139385	2.5	1
103	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
102	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
101	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
100	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
99	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
98	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
97	Toward a Highly Functional Hybrid ZnO Nanofiber/GO Gas Sensor. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000005	3.5	9
96	Biosynthesis of antibacterial silver nanoparticles using <i>Astragalus verus</i> Olivier. <i>Micro and Nano Letters</i> , 2020 , 15, 66-71	0.9	5
95	A comprehensive study on <i>Plantago ovata</i> /PVA biocompatible nanofibers: Fabrication, characterization, and biological assessment. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49560	2.9	6
94	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
93	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
92	Preparation of cell culture scaffolds using polycaprolactone/quince seed mucilage. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1270-1276	7.9	9
91	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
90	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
89	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
88	Application of cress seed mucilage magnetic nanocomposites for removal of methylene blue dye from water. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 199-208	7.9	46

87	Fabrication and characterization of electrospun Plantago major seed mucilage/PVA nanofibers. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47852	2.9	10
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	Antibacterial magnetic nanoparticles for therapeutics: a review. <i>IET Nanobiotechnology</i> , 2019 , 13, 786-799		16
78	Effectiveness of superhydrophobic material on the hydroplaning risk of asphalt pavements. <i>International Journal of Pavement Engineering</i> , 2019 , 1-9	2.6	3
77	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
76	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
75	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
74	Electrosprayed Cerium Oxide Nanoparticles. <i>Journal of Electronic Materials</i> , 2018 , 47, 3779-3787	1.9	4
73	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
72	Development of an electrochemical biosensor for vitamin B12 using D-phenylalanine nanotubes 2018 ,		2
71	Green reduction of graphene oxide by ascorbic acid 2018 ,		18
70	Encapsulation of D-limonene in Alyssum homolocarpum seed gum nanocapsules by emulsion electrospaying: Morphology characterization and stability assessment. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2018 , 16, 43-52	3.4	21

69	Fabrication of cellulose nanoparticles through electrospraying. <i>IET Nanobiotechnology</i> , 2018 , 12, 807-813		6
68	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
67	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
66	Fabrication of tragacanth and water soluble tragacanth nanoparticles through electrospraying. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 2036-2041	3.2	8
65	Biocompatible biodegradable polycaprolactone/basil seed mucilage scaffold for cell culture. <i>IET Nanobiotechnology</i> , 2018 , 12, 1108-1113	2	6
64	Green synthesis of silver nanoparticles using (L.) Curtis extract and evaluation of its antibacterial activity. <i>IET Nanobiotechnology</i> , 2018 , 12, 574-578	2	19
63	Examining the effect of different super hydrophobic nanomaterials on asphalt pavements. <i>Construction and Building Materials</i> , 2018 , 180, 285-290	6.7	14
62	Development of a new magnetic aluminum matrix nanocomposite. <i>Ceramics International</i> , 2018 , 44, 15079-15085		
61	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
60	Investigation on the Biodegradability and Antibacterial Properties of Nanohybrid Suture Based on Silver Incorporated PGA-PLGA Nanofibers. <i>Fibers and Polymers</i> , 2018 , 19, 2056-2065	2	11
59	Flower-Like Self-Assembly of Diphenylalanine for Electrochemical Human Growth Hormone Biosensor. <i>IEEE Sensors Journal</i> , 2018 , 18, 8979-8985	4	7
58	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	
57	Green synthesis of silver nanoparticles with the Arial part of extract by antimicrobial analysis. <i>IET Nanobiotechnology</i> , 2018 , 12, 491-495	2	11
56	Alyssum lepidium mucilage as a new source for electrospinning: production and physicochemical characterisation. <i>IET Nanobiotechnology</i> , 2018 , 12, 259-263	2	8
55	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
54	. <i>IEEE Sensors Journal</i> , 2017 , 17, 2856-2862	4	8
53	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
52	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

51	Gundelia tournefortii L.: a natural source for the green synthesis of silver nanoparticles. <i>IET Nanobiotechnology</i> , 2017 , 11, 815-820	2	6
50	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
49	Green synthesis, characterization and antibacterial activity of silver nanoparticles from root extract of Lepidium draba weed. <i>Green Chemistry Letters and Reviews</i> , 2017 , 10, 324-330	4.7	25
48	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
47	An antibacterial study of a new magnetite silver nanocomposite. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5786-5792	6.8	8
46	Ocimum basilicum mucilage as a new green polymer support for silver in magnetic nanocomposites: Production and characterization. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 5912-5920	6.8	12
45	Sol-gel synthesis of amorphous SiOC nanoparticles from BS290 silicone precursor. <i>Ceramics International</i> , 2017 , 43, 12898-12903	5.1	6
44	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
43	Assessment of antibacterial properties of novel silver nanocomposite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 506-513	5.3	15
42	Synthesis and characterization of the NiFe ₂ O ₄ @TEOS/PS@Ag nanocomposite and investigation of its antibacterial activity. <i>Applied Surface Science</i> , 2016 , 385, 506-514	6.7	17
41	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
40	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
39	Preparation, characterization, and antibacterial activity of NiFe ₂ O ₄ /PAMA/Ag/IrO ₂ nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 404, 14-20	2.8	30
38	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
37	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
36	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
35	Electrocatalytic reduction of CO ₂ to CO by Gd(III) and Dy(III) complexes; and M ₂ O ₃ nanoparticles (M = Gd and Dy). <i>Journal of CO₂ Utilization</i> , 2016 , 13, 61-70	7.6	10
34	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

33	A novel and facile method for silica nanoparticles synthesis from high temperature vulcanization (HTV) silicon. <i>Metallurgical and Materials Engineering</i> , 2016 , 22, 1-8	2	10
32	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
31	Removal of nickel and cadmium heavy metals using nanofiber membranes functionalized with (3-mercaptopropyl)trimethoxysilane (TMPTMS). <i>Journal of Water and Health</i> , 2016 , 14, 630-9	2.2	14
30	Biosynthesis of silver nanoparticles using Capparis spinosa L. leaf extract and their antibacterial activity. <i>Karbla International Journal of Modern Science</i> , 2016 , 2, 251-258	4.6	62
29	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
28	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
27	Corrosion protection of copper by silane sol-gel coatings. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 74, 800-809	2.3	17
26	Differential pulse voltammetric determination of methyl dopa using MWCNTs modified glassy carbon decorated with NiFe ₂ O ₄ nanoparticles. <i>Ionics</i> , 2015 , 21, 1435-1444	2.7	13
25	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
24	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
23	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
22	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
21	Highly selective differential pulse voltammetric determination of phenazopyridine using MgCr ₂ O ₄ nanoparticles decorated MWCNTs-modified glassy carbon electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 270-6	6	11
20	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
19	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
18	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
17	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
16	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

15	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
14	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. <i>Talanta</i> , 2012 , 99, 335-41	6.2	14
13	Liquid three-phase microextraction based on hollow fiber for highly selective and sensitive determination of using an ion selective electrode. <i>Analytical Methods</i> , 2011 , 3, 463-470	3.2	11
12	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
11	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
10	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	9
9	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
8	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
7	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
6	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
5	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
4	Rapid Determination of Pentazocine in Human Plasma and Urine by a Potentiometric Method. <i>Analytical Letters</i> , 2009 , 42, 571-583	2.2	5
3	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
2	Novel and selective potentiometric membrane sensor for amiloride determination in pharmaceutical compounds and urine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 802-805	3.5	30
1	A Highly Selective Mercury(II) Ion-Selective Membrane Sensor. <i>Journal of the Korean Chemical Society</i> , 2007 , 51, 324-330		2