

Ali Ghaffarinejad

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69

papers

1,446

citations

22

h-index

36

g-index

73

ext. papers

1,782

ext. citations

5

avg. IF

5.42

L-index

#	Paper	IF	Citations
69	A simple and cost-effective method, as an appropriate alternative for visible spectrophotometry: development of a dopamine biosensor. <i>Analyst, The</i> , 2009 , 134, 1692-8	5	103
68	Visible light photocatalytic disinfection of E. coli with TiO ₂ /graphene nanocomposite sensitized with tetrakis(4-carboxyphenyl)porphyrin. <i>Applied Surface Science</i> , 2015 , 355, 1098-1106	6.7	86
67	Label-free ultrasensitive detection of breast cancer miRNA-21 biomarker employing electrochemical nano-genosensor based on sandwiched AgNPs in PANI and N-doped graphene. <i>Biosensors and Bioelectronics</i> , 2018 , 120, 129-136	11.8	78
66	Electrocatalytic oxidation of l-cysteine with a stable copper/cobalt hexacyanoferrate electrochemically modified carbon paste electrode. <i>Electrochimica Acta</i> , 2008 , 53, 6643-6650	6.7	73
65	Copper oxide-polyaniline nanofiber modified fluorine doped tin oxide (FTO) electrode as non-enzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 294-301	8.5	67
64	Synthesis and potential applications of some thiazoles as corrosion inhibitor of copper in 1 M HCl: Experimental and theoretical studies. <i>Progress in Organic Coatings</i> , 2019 , 132, 417-428	4.8	65
63	Nano-biosensor for highly sensitive detection of HER2 positive breast cancer. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 104-111	11.8	65
62	A selective modified carbon paste electrode for determination of cyanide using tetra-3,4-pyridinoporphyrazinatocobalt(II). <i>Talanta</i> , 2005 , 66, 931-6	6.2	58
61	Sandwich-structured nanoparticles-grafted functionalized graphene based 3D nanocomposites for high-performance biosensors to detect ascorbic acid biomolecule. <i>Scientific Reports</i> , 2019 , 9, 1226	4.9	51
60	Electrocatalytic oxidation and determination of hydrazine on nickel hexacyanoferrate nanoparticles-modified carbon ceramic electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 631, 52-57	4.1	50
59	Synthesis, characterization, and photocurrent generation of a new nanocomposite based Cu/CPP MOF and ZnO nanorod. <i>RSC Advances</i> , 2015 , 5, 46624-46631	3.7	44
58	Preparation of a sol-gel-derived carbon nanotube ceramic electrode by microwave irradiation and its application for the determination of adenine and guanine. <i>Electrochimica Acta</i> , 2010 , 55, 1090-1096	6.7	42
57	Electrocatalytic nitrate reduction using Fe ⁰ /Fe ₃ O ₄ nanoparticles immobilized on nickel foam: Selectivity and energy consumption studies. <i>Journal of Cleaner Production</i> , 2020 , 242, 118569	10.3	42
56	An electrochemical paper based nano-genosensor modified with reduced graphene oxide-gold nanostructure for determination of glycosylated hemoglobin in blood. <i>Analytica Chimica Acta</i> , 2019 , 1078, 42-52	6.6	35
55	Enhanced visible light photocurrent response and photodegradation efficiency over TiO ₂ -graphene nanocomposite pillared with tin porphyrin. <i>Journal of Colloid and Interface Science</i> , 2016 , 466, 310-21	9.3	33
54	Mesoporous nanostructures of Nb ₂ O ₅ obtained by an EISA route for the treatment of malachite green dye-contaminated aqueous solution under UV and visible light irradiation. <i>Ceramics International</i> , 2014 , 40, 9817-9829	5.1	30
53	Experimental and computational study of penicillamine drug and cysteine as water-soluble green corrosion inhibitors of mild steel. <i>Progress in Organic Coatings</i> , 2020 , 142, 105567	4.8	28

52	One-pot synthesis of S-doped Fe ₂ O ₃ /C magnetic nanocomposite as an adsorbent for anionic dye removal: equilibrium and kinetic studies. <i>Journal of Nanostructure in Chemistry</i> , 2018 , 8, 23-32	7.6	28
51	Electrochemical nano-genosensor for highly sensitive detection of miR-21 biomarker based on SWCNT-grafted dendritic Au nanostructure for early detection of prostate cancer. <i>Talanta</i> , 2020 , 209, 120595	6.2	27
50	A Novel Graphene-Grafted Gold Nanoparticles Composite for Highly Sensitive Electrochemical Biosensing. <i>IEEE Sensors Journal</i> , 2018 , 18, 2513-2519	4	24
49	Palladium-silver polyaniline composite as an efficient catalyst for ethanol oxidation. <i>Applied Catalysis A: General</i> , 2018 , 554, 24-34	5.1	23
48	Synergistic effect of molybdenum coating and SDS surfactant on corrosion inhibition of mild steel in presence of 3.5% NaCl. <i>Corrosion Science</i> , 2018 , 136, 393-401	6.8	23
47	Method for preparation of a sol-gel-derived carbon ceramic electrode using microwave irradiation. <i>Analytical Chemistry</i> , 2009 , 81, 3660-4	7.8	22
46	Investigation of the synergistic effect of porphyrin photosensitizer on graphene//iO ₂ nanocomposite for visible light photoactivity improvement. <i>Environmental Progress and Sustainable Energy</i> , 2016 , 35, 642-652	2.5	19
45	In situ, one-step and co-electrodeposition of graphene supported dendritic and spherical nano-palladium-silver bimetallic catalyst on carbon cloth for electrooxidation of methanol in alkaline media. <i>Renewable Energy</i> , 2018 , 126, 1085-1092	8.1	18
44	Sulfonated aromatic polyamide as water-soluble polymeric corrosion inhibitor of copper in HCl. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 578, 123626	5.1	18
43	Evaluation of corrosion inhibition of 4-(pyridin-3-yl) thiazol-2-amine for copper in HCl by experimental and theoretical studies. <i>Journal of Molecular Structure</i> , 2020 , 1205, 127658	3.4	18
42	Rapid removal of lead (II) ions from aqueous solutions by saffron flower waste as a green biosorbent. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6021-6027	6.8	18
41	Electrochemical Synthesis of NiBTC Metal Organic Framework Thin Layer on Nickel Foam: An Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 1565-1574	3.2	17
40	A simple method for determination of D-penicillamine on the carbon paste electrode using cupric ions. <i>Bioelectrochemistry</i> , 2014 , 99, 53-6	5.6	16
39	Synthesis of palladium//carbon nanotube//metal organic framework composite and its application as electrocatalyst for hydrogen production. <i>Journal of Nanostructure in Chemistry</i> , 2016 , 6, 299-308	7.6	15
38	Application of electrodeposited cobalt hexacyanoferrate film to extract energy from water salinity gradients. <i>RSC Advances</i> , 2015 , 5, 30032-30037	3.7	14
37	Humidity sensitive behavior of Fe(NO ₃) ₃ -loaded mesoporous silica MCM-41. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 225-229	8.5	14
36	A novel co-electrodeposited Co/MoSe ₂ /reduced graphene oxide nanocomposite as electrocatalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19816-19826	6.7	13
35	Determination of l-histidine by modified carbon paste electrode using tetra-3,4-pyridinoporphirazinatocopper(II). <i>Talanta</i> , 2004 , 64, 1036-40	6.2	13

34	Electrochemical sensor for L-cysteine by using a cobalt(II)/aluminum(III) layered double hydroxide as a nanocatalyst. <i>Mikrochimica Acta</i> , 2019 , 186, 365	5.8	12
33	Low loaded palladium nanoparticles on ethylenediamine-functionalized cellulose as an efficient catalyst for electrochemical hydrogen production. <i>RSC Advances</i> , 2015 , 5, 70668-70674	3.7	12
32	Non-enzymatic sensor based on nitrogen-doped graphene modified with Pd nano-particles and NiAl layered double hydroxide for glucose determination in blood. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 871, 114285	4.1	11
31	Development of a new method based on scanner electrochemistry: applied for the speciation of Iron(II) and Iron(III). <i>Analytical Methods</i> , 2011 , 3, 2268	3.2	11
30	Reproducible and Scalable Generation of Multilayer Nanocomposite Constructs for Ultrasensitive Nanobiosensing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900478	6.8	10
29	Electrocatalytic hydrogen production by bulk and nano Fe ₂ O ₃ and carbon nanotube modified with Fe ₂ O ₃ . <i>Journal of Electroanalytical Chemistry</i> , 2015 , 739, 73-83	4.1	9
28	Fabrication and characterization of bimetallic nickel-molybdenum nano-coatings for mild steel corrosion protection in 3.5% NaCl solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 593, 124617	5.1	9
27	Simultaneous electrosynthesis of CuBTC and ZnBTC metal-organic frameworks on brass. <i>New Journal of Chemistry</i> , 2020 , 44, 19820-19826	3.6	8
26	Effect of metal hexacyanoferrate films on hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 685, 103-108	4.1	8
25	Rapid and efficient lead(II) ion removal from aqueous solutions using <i>Malva sylvestris</i> flower as a green biosorbent. <i>Analytical Methods</i> , 2016 , 8, 2515-2525	3.2	7
24	Preparation and effects of F-doping on electrochemical properties of Li ₄ Ti ₅ O ₁₂ as anode material for Li-ion battery. <i>Ionics</i> , 2021 , 27, 1929-1937	2.7	7
23	Effect of surfactant type on buckypaper electrochemical performance. <i>Micro and Nano Letters</i> , 2018 , 13, 927-930	0.9	7
22	A graphite sheet modified with reduced graphene oxide-hyper-branched gold nanostructure as a highly efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29922-29932	6.7	6
21	Plasmon induced transparency and refractive index sensing in two nanocavities and double nanodisk resonators. <i>Optik</i> , 2020 , 202, 163618	2.5	6
20	The effect of annealing temperature, reaction time, and cobalt precursor on the structural properties and catalytic performance of CoS ₂ for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3922-3932	6.7	6
19	Enhanced electrocatalytic denitrification using non-noble Ni-Fe electrode supplied by Fe ₃ O ₄ nanoparticle and humic acid. <i>Applied Surface Science</i> , 2021 , 563, 150142	6.7	6
18	Ag/Cu nano alloy as an electrocatalyst for hydrogen production. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 782, 1-8	4.1	5
17	Determination of Chlorpromazine Hydrochloride with a Layered Double Hydroxide Modified Glassy Carbon Electrode as a Nanocatalyst. <i>Electroanalysis</i> , 2020 , 32, 2065-2071	3	3

16	A new approach to fabrication of UV photodiodes based on ZnO/PPy on carbon clothe substrate. <i>Optical Materials</i> , 2021 , 122, 111634	3.3	2
15	Multifunctional Magnetic Nanoparticles-Labeled Mesenchymal Stem Cells for Hyperthermia and Bioimaging Applications. <i>Methods in Molecular Biology</i> , 2020 , 2125, 57-72	1.4	2
14	Enhancement of light absorption in photocatalytic devices with multilayered ultra-thin silver elements. <i>Optics Communications</i> , 2019 , 450, 228-235	2	1
13	Modified carbon cloth with cobalt oxide and palladium for efficient electrochemical hydrogen production. <i>Materials Today Energy</i> , 2020 , 17, 100471	7	1
12	Effect of orange peel extract on the corrosion of mild steel in 1 M HCl solution 2016 ,		1
11	Copper Oxide Nanoparticle Modified Sol-Gel-Derived Carbon Ceramic by Microwave Irradiation, and Its Application for Determination of Adenine at Very Low Potential. <i>Electroanalysis</i> , 2010 , 23, n/a-n/a ²		1
10	Electrodeposition of nanoporous nickel selenide on graphite rod as a bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 907, 116066	4.1	1
9	Sunflower petals extract as a green, eco-friendly and effective corrosion bioinhibitor for carbon steel in 1M HCl solution. <i>Chemical Data Collections</i> , 2022 , 37, 100799	2.1	1
8	Effect of Saffron Flower Petal Extract as an Eco-Friendly Corrosion Bioinhibitor for Carbon Steel in 1 mol. L ⁻¹ HCl Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	1
7	Glucose Electro-oxidation on Graphite Electrode Modified with Nickel/Chromium Nanoparticles. <i>Electroanalysis</i> , 2020 , 32, 281-290	3	1
6	Turnip peel extract as green corrosion bio-inhibitor for copper in 3.5% NaCl solution. <i>Materials Chemistry and Physics</i> , 2022 , 286, 126150	4.4	1
5	Synergic and Antifouling Effect of ZnO on Ethanol Oxidation by Silver-Palladium Bimetallic Electrocatalyst. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2556-A2562	3.9	0
4	Early detection of multiple sclerosis (MS) as a neurodegenerative disease using electrochemical nano-aptasensor. <i>Microchemical Journal</i> , 2022 , 178, 107358	4.8	0
3	Electrocatalytic disinfection of E. coli using Ni-Fe/Fe ₃ O ₄ nanocomposite cathode: Effect of Fe ₃ O ₄ nanoparticle, humic acid, and nitrate. <i>Separation and Purification Technology</i> , 2022 , 294, 121140	8.3	0
2	Effect of Radiofrequency Power Sputtering on Silver-Palladium Nano-coatings for Mild Steel Corrosion Protection in 3.5% NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 8406-8413	1.6	
1	Screening of hepatitis B virus DNA in the serum sample by a new sensitive electrochemical genosensor-based Pd-Al LDH substrate. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	