Azadeh Azadbakht

List of Publications by Year
in descending order

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74 papers	1,226 citations	331670 21 h-index	454955 30 g-index
75 all docs	75 docs citations	75 times ranked	1632 citing authors

#	Article	IF	Citations
1	Ultra-sensitive aptasensor based on a GQD nanocomposite for detection of hepatitis C virus core antigen. Analytical Biochemistry, 2017, 534, 64-69.	2.4	86
2	A novel hydrazine electrochemical sensor based on a zirconium hexacyanoferrate film-bimetallic Auâ€“Pt inorganicâ€“organic hybrid nanocomposite onto glassy carbon-modified electrode. Electrochimica Acta, 2011, 56, 10044-10054.	5.2	63
3	An electrochemical dopamine aptasensor incorporating silver nanoparticle, functionalized carbon nanotubes and graphene oxide for signal amplification. Talanta, 2016, 159, 307-316.	5.5	56
4	Aptamer-based electrochemical biosensor by using Au-Pt nanoparticles, carbon nanotubes and acriflavine platform. Analytical Biochemistry, 2017, 518, 35-45.	2.4	43
5	A nano-structured Ni(II)â€“ACDA modified gold nanoparticle self-assembled electrode for electrocatalytic oxidation and determination of tryptophan. Electrochimica Acta, 2011, 56, 4022-4030.	5.2	40
6	A label-free aptasensor based on polyethyleneimine wrapped carbon nanotubes in situ formed gold nanoparticles as signal probe for highly sensitive detection of dopamine. Materials Science and Engineering C, 2016, 68, 585-593.	7.3	40
7	Three new supramolecular compounds of copper (II), cobalt (II) and zirconium (IV) with pyridine-2,6-dicarboxylate and 3,4-diaminopyridine: Solid and solution states studies. Polyhedron, 2012, 43, 140-152.	2.2	35
8	An aptamer embedded in a molecularly imprinted polymer for impedimetric determination of tetracycline. Mikrochimica Acta, 2019, 186, 56.	5.0	35
9	Development of novel electrochemical sensor on the base of molecular imprinted polymer decorated on SiC nanoparticles modified glassy carbon electrode for selective determination of loratadine. Materials Science and Engineering C, 2017, 71, 1106-1114.	7.3	32
10	Design of ultrasensitive bisphenol Aâ€“aptamer based on platinum nanoparticles loading to polyethyleneimine-functionalized carbon nanotubes. Analytical Biochemistry, 2016, 512, 47-57.	2.4	31
11	Amplified detection of streptomycin using aptamer-conjugated palladium nanoparticles decorated on chitosan-carbon nanotube. Analytical Biochemistry, 2018, 547, 57-65.	2.4	31
12	Application of a Palladium Hexacyanoferrate Film-Modified Aluminum Electrode to Electrocatalytic Oxidation of Hydrazine. Analytical Sciences, 2005, 21, 1317-1323.	1.6	30
13	Design of folding-based impedimetric aptasensor for determination of the nonsteroidal anti-inflammatory drug. Analytical Biochemistry, 2016, 513, 77-86.	2.4	30
14	Electrochemical switching with a DNA aptamer-based electrochemical sensor. Materials Science and Engineering C, 2017, 76, 925-933.	7.3	29
15	Design and characterization of electrochemical dopamineâ€“aptamer as convenient and integrated sensing platform. Analytical Biochemistry, 2016, 507, 47-57.	2.4	27
16	A novel impedimetric aptasensor, based on functionalized carbon nanotubes and prussian blue as labels. Analytical Biochemistry, 2016, 512, 58-69.	2.4	25
17	Controlled uptake and release of imatinib from ultrasound nanoparticles Cu3(BTC)2 metalâ€“organic framework in comparison with bulk structure. Journal of Colloid and Interface Science, 2016, 471, 112-117.	9.4	24
18	Deposition of silver nanoparticles on polyester fiber under ultrasound irradiations. Ultrasonics Sonochemistry, 2017, 34, 13-18.	8.2	24

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19	An Electrochemical Sensor Based on Carbon Nanotube Bimetallic Auâ€Pt Inorganicâ€Organic Nanofiber Hybrid Nanocomposite Electrode Applied for Detection of Guaifenesin. Electroanalysis, 2011, 23, 2771-2779.	2.9	23
20	Covalent attachment of Ni-2,3-pyrazine dicarboxylic acid onto gold nanoparticle gold electrode modified with penicillamine- CdS quantum dots for electrocatalytic oxidation and determination of urea. Electrochimica Acta, 2014, 125, 9-21.	5.2	23
21	Synthesis and characterization of TMU-16-NH2 metal-organic framework nanostructure upon silk fiber: Study of structure effect on morphine and methyl orange adsorption affinity. Fibers and Polymers, 2015, 16, 1193-1200.	2.1	23
22	Simultaneous Determination of Trace Zinc and Cadmium by Anodic Stripping Voltammetry Using a Polymeric Film Nanoparticle Selfâ€Assembled Electrode. Electroanalysis, 2011, 23, 364-370.	2.9	21
23	Fabrication of a highly sensitive glucose electrochemical sensor based on immobilization of Ni(II)â€“pyromellitic acid and bimetallic Auâ€“Pt inorganicâ€“organic hybrid nanocomposite onto carbon nanotube modified glassy carbon electrode. Electrochimica Acta, 2012, 76, 300-311.	5.2	21
24	Synthesis, Crystal Structure, Spectroscopic, Electrochemical and Antimicrobial Properties of Cu(II) Complex with the Mixed Ligands of 2,9â€Dimethylâ€1,10â€phenanthroline and 4â€Hydroxypyridineâ€2,6â€dicarboxylic Acid. Chinese Journal of Chemistry, 2010, 28, 2167-2173.	4.9	19
25	Fabrication of a highly sensitive and selective electrochemical sensor based on chitosan-coated Fe₃O₄magnetic nanoparticle for determination of antibiotic ciprofloxacin and its application in biological samples. Canadian Journal of Chemistry, 2016, 94, 803-811.	1.1	18
26	A simple and label-free aptasensor based on amino group-functionalized gold nanocomposites-Prussian blue/carbon nanotubes as labels for signal amplification. Journal of Electroanalytical Chemistry, 2016, 776, 170-179.	3.8	18
27	Using Au@nano-C60 nanocomposite as an enhanced sensing platform in modeling a TNT aptasensor. Analytical Biochemistry, 2017, 534, 78-85.	2.4	18
28	Aptamer-based sensor for diclofenac quantification using carbon nanotubes and graphene oxide decorated with magnetic nanomaterials. Journal of the Iranian Chemical Society, 2018, 15, 595-606.	2.2	18
29	Hybrid synthetic receptor composed of molecularly imprinted polydopamine and aptamers for impedimetric biosensing of urea. Mikrochimica Acta, 2019, 186, 71.	5.0	17
30	Impedimetric aptasensor for kanamycin by using carbon nanotubes modified with MoSe2 nanoflowers and gold nanoparticles as signal amplifiers. Mikrochimica Acta, 2019, 186, 23.	5.0	17
31	Methyl orange removal from wastewater using [Zn2(oba)2(4-bpdh)]Â·3DMF metalâ€“organic frameworks nanostructures. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 1582-1589.	3.7	16
32	Surface-Renewable AgNPs/CNT/rGO Nanocomposites as Bifunctional Impedimetric Sensors. Nano-Micro Letters, 2017, 9, 4.	27.0	16
33	Ultrasound-assisted coating of silk yarn with nano-porous Co3(BTC)2Â·12H2O with iodine adsorption affinity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 431, 66-72.	4.7	15
34	Nanostructured aptamer-based sensing platform for highly sensitive recognition of myoglobin. Mikrochimica Acta, 2018, 185, 333.	5.0	15
35	Immobilized organoruthenium(II) complexes onto polyethyleneimine-wrapped carbon nanotubes/in situ formed gold nanoparticles as a novel electrochemical sensing platform. Materials Science and Engineering C, 2015, 48, 270-278.	7.3	14
36	Fabrication of a Highly Sensitive Hydrazine Electrochemical Sensor Based on Bimetallic Au-Pt Hybrid Nanocomposite onto Modified Electrode. Nano-Micro Letters, 2010, 2, 296-305.	27.0	13

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37	Dense coating of surface mounted Cu2O nanoparticles upon silk fibers under ultrasound irradiation with antibacterial activity. Journal of the Iranian Chemical Society, 2016, 13, 1273-1281.	2.2	13
38	Impedimetric biosensor based on bimetallic AgPt nanoparticle-decorated carbon nanotubes as highly conductive film surface. Journal of Solid State Electrochemistry, 2017, 21, 1699-1711.	2.5	13
39	polyethyleneimine wrapped carbon nanotubes in situ formed gold nanoparticles decorated with DNA and NAD+ as a novel bioeletrochemical sensing platform. Electrochimica Acta, 2014, 133, 82-92.	5.2	12
40	The Electrochemical Behavior of Au/AuNPs/PNA/ZnSe-QD/ACA Electrode Towards CySH Oxidation. Nano-Micro Letters, 2015, 7, 152-164.	27.0	12
41	Voltammetric aptamer-based switch probes for sensing diclofenac using a glassy carbon electrode modified with a composite prepared from gold nanoparticles, carbon nanotubes and amino-functionalized Fe3O4 nanoparticles. Mikrochimica Acta, 2017, 184, 2825-2835.	5.0	12
42	A nano-structured Ni(II)â€“chelidamic acid modified gold nanoparticle self-assembled electrode for electrocatalytic oxidation and determination of methanol. Materials Science and Engineering C, 2012, 32, 1955-1962.	7.3	10
43	Synthesis and characterization of acrylic fibers with antibacterial silver nanoparticles. Fibers and Polymers, 2012, 13, 264-268.	2.1	10
44	Fabrication of an ultrasensitive impedimetric electrochemical sensor based on graphene nanosheet/polyethyleneimine/gold nanoparticle composite. Journal of Electroanalytical Chemistry, 2015, 757, 277-287.	3.8	10
45	Engineering an aptamer-based recognition sensor for electrochemical opium alkaloid biosensing. Journal of Materials Science: Materials in Electronics, 2019, 30, 3432-3442.	2.2	10
46	An Impedimetric Sensor Comprising Magnetic Nanoparticlesâ€“Graphene Oxide and Carbon Nanotube for the Electrocatalytic Oxidation of Salicylic Acid. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 901-911.	3.7	8
47	Nano NiO/AlMCMâ€41, a green synergistic, highly efficient and recyclable catalyst for the reduction of nitrophenols. Applied Organometallic Chemistry, 2019, 33, e4864.	3.5	8
48	Preparation of modified glassy carbon electrode by the use of titanium oxide, copper and palladium nanoparticles and its application for the electrocatalytic and photelectrocatalytic reduction of hydrogen peroxide. Journal of Materials Science: Materials in Electronics, 2019, 30, 5212-5221.	2.2	8
49	Nanomolar detection of hydrogen peroxide at a nano-structured adducts of diorganotin dichlorides multiwall carbon nanotube modified glassy carbon electrode. Electrochimica Acta, 2012, 78, 82-91.	5.2	7
50	Acriflavine immobilized onto polyethyleneimine-wrapped carbon nanotubes/gold nanoparticles as an eletrochemical sensing platform. Journal of Chemical Sciences, 2016, 128, 257-268.	1.5	7
51	Layer-by-Layer Synthesis of Nanostructure NiBTC Porous Coordination Polymer for Iodine Removal from Wastewater. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 479-487.	3.7	7
52	Synthesis, crystal structures, spectroscopic, thermal analysis, electrochemical and solution studies of two new mixed metal coordination polymers based on dipicolinic acid and 3,4-diaminopyridine. Inorganica Chimica Acta, 2014, 410, 221-229.	2.4	6
53	Copper inorganic-organic hybrid coordination compound as a novel L-cysteine electrochemical sensor: Synthesis, characterization, spectroscopy and crystal structure. Journal of Chemical Sciences, 2015, 127, 2005-2014.	1.5	6
54	A glassy carbon electrode modified with carbon nanotubes and reduced graphene oxide decorated with platinum-gold nanoparticles for voltammetric aptasensing of urea. Mikrochimica Acta, 2017, 184, 4685-4694.	5.0	6

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55	Bifunctional impedimetric sensors based on azodicarboxamide supported on modified graphene nanosheets. Materials Science and Engineering C, 2016, 69, 221-230.	7.3	5
56	A new supramolecular coordination compound of Mg(II) with chelidamic acid: Synthesis, spectroscopic, crystal structures, and thermal analysis. Inorganic and Nano-Metal Chemistry, 2017, 47, 515-520.	1.6	5
57	Aptamer-Based Approach as Potential Tools for Construction the Electrochemical Aptasensor. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 517-527.	3.7	5
58	Synthesis and characterization of nanocrystalline CoWO4@silk fibers with antibacterial activity under ultrasound irradiation. Fibers and Polymers, 2013, 14, 687-692.	2.1	4
59	Direct Electrochemistry and Electrocatalysis of Hemoglobin on Bimetallic Auâ€“Pt Inorganicâ€“Organic Nanofiber Hybrid Nanocomposite and Mesoporous Molecular Sieve MCM-41. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 573-581.	3.7	4
60	Synthesis, spectroscopic and crystal structure of a new 2D coordination polymer of Ni(II) constructed by naphthalene-1,4-dicarboxylic acid; Nanomolar detection of fructose at a nano-structured Ni(II) coordination polymer multiwall carbon nanotube. Journal of the Iranian Chemical Society, 2016, 13, 563-574.	2.2	4
61	Crystal growth of thin [Zn2(H2N-BDC)2(4-bpdb)] Â· 3DMF metalâ€“organic framework nanostructure on functionalized surfaces: study of structure effect on methyldopa adsorption affinity. Russian Journal of Electrochemistry, 2017, 53, 345-351.	0.9	4
62	Solution and solid-state studies of a new supramolecular proton transfer salt and its VO2 complex constructed with chelidamic acid and 3,4-diaminopyridine. Journal of the Iranian Chemical Society, 2017, 14, 811-822.	2.2	4
63	Fabrication of highly sensitive cysteine electrochemical sensor based on nanostructured compound and carbon nanotube modified electrode. Russian Journal of Electrochemistry, 2013, 49, 1127-1138.	0.9	3
64	Theoretical study of intermolecular interactions in CB4H8â€“HOX (X=F, Cl, Br, I) complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 778-785.	3.9	3
65	Synthesis, characterization, crystal structure, thermal analysis of a new co-crystal supramolecular dinuclear zinc (II) complex containing chelidamate ligand. Inorganic and Nano-Metal Chemistry, 2018, 48, 196-202.	1.6	3
66	Preparation of the carboxylic acid-functionalized graphene oxide/gold nanoparticles/5-amino-2-hydroxybenzoic acid as a novel electrochemical sensing platform. Monatshefte FÃ¼r Chemie, 2016, 147, 705-717.	1.8	2
67	Co-Crystal of Phenylsuccinic Acid and 4,4'-Bipyridine: Synthesis, Characterization, Crystal Structure, and Supramolecular Interactions. Crystallography Reports, 2019, 64, 1038-1042.	0.6	2
68	Synthesis, Characterization, Crystal Structure and Supramolecular Interactions of a New Ni(II) Compound Based on l-Histidine and Dipicolinic Acid; New Solid State Precursor for NiO Nanoparticles and Its Catalytic Activity for Nitrophenol Reduction. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 502-516.	3.7	2
69	Surface decoration of Auâ€“Pt bimetallic inorganicâ€“organic hybrid nanocomposite modified carbon ceramic electrode with vanadium N-salicylidene-L-histidineâ€“al-MCM-41 for electrooxidation of thiosulphate. Russian Journal of Electrochemistry, 2015, 51, 843-856.	0.9	1
70	Intermolecular complexes of nido-C2B3H7 with HF and LiH molecules: the theoretical studies, bonding properties and natural bond orbital (NBO) analysis. Structural Chemistry, 2016, 27, 477-485.	2.0	1
71	A new one-dimensional 3D supramolecular coordination polymer of Cd^{II}based on pyrazine and 3-nitropthalic acid: Synthesis, characterization, crystal structure, thermal analysis. Inorganic and Nano-Metal Chemistry, 2018, 48, 74-79.	1.6	1
72	High Performance Removal of Azo and Cationic Dyes Pollutants with Mn-Aluminophosphate Particles: Kinetics, Thermodynamics, and Adsorption Equilibrium Studies. Russian Journal of Physical Chemistry A, 2019, 93, 2604-2612.	0.6	1

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73	Single Layer of Gold Nanoparticles Self-Assembled on Gold Electrode as a Novel Sensor with High Electrocatalytic Activity. Journal of Analytical Chemistry, 2018, 73, 1118-1127.	0.9	0
74	Synthesis, Characterization, Crystal Structure, and Supramolecular Interactions of a New Proton Transfer Compound: 2-Aminopyrazinium 4-hydroxypyridinium-2,6-dicarboxylate. Russian Journal of Physical Chemistry A, 2019, 93, 2061-2066.	0.6	0