Mahmoud Amouzadeh Tabrizi

List of Publications by Year
in descending order

54 papers	1,849 citations	186209 28 h-index	265120 42 g-index
55 all docs	55 docs citations	55 times ranked	2302 citing authors

#	Article	IF	Citations
1	Green-synthesis of reduced graphene oxide nanosheets using rose water and a survey on their characteristics and applications. RSC Advances, 2013, 3, 13365.	1.7	106
2	A high sensitive electrochemical aptasensor for the determination of VEGF165 in serum of lung cancer patient. Biosensors and Bioelectronics, 2015, 74, 764-769.	5.3	99
3	Highly sensitive label free electrochemical detection of VGEF165 tumor marker based on â€œsignal offâ€• and â€œsignal onâ€•strategies using an anti-VEGF165 aptamer immobilized BSA-gold nanoclusters/ionic liquid/glassy carbon electrode. Biosensors and Bioelectronics, 2015, 74, 369-375.	5.3	90
4	A high sensitive visible light-driven photoelectrochemical aptasensor for shrimp allergen tropomyosin detection using graphitic carbon nitride-TiO2 nanocomposite. Biosensors and Bioelectronics, 2017, 98, 113-118.	5.3	82
5	Green synthesis of reduced graphene oxide decorated with gold nanoparticles and its glucose sensing application. Sensors and Actuators B: Chemical, 2014, 202, 475-482.	4.0	75
6	A label-free electrochemical DNA biosensor based on covalent immobilization of salmonella DNA sequences on the nanoporous glassy carbon electrode. Biosensors and Bioelectronics, 2015, 69, 100-105.	5.3	72
7	A manganese oxide with phenol groups as a promising structural model for water oxidizing complex in Photosystem II: a â€˜golden fishâ€™. Dalton Transactions, 2012, 41, 3906.	1.6	57
8	An ultrasensitive molecularly imprinted polymer-based electrochemical sensor for the determination of SARS-CoV-2-RBD by using macroporous gold screen-printed electrode. Biosensors and Bioelectronics, 2022, 196, 113729.	5.3	57
9	Functionalized Fe3O4/graphene oxide nanocomposites with hairpin aptamers for the separation and preconcentration of trace Pb2+ from biological samples prior to determination by ICP MS. Materials Science and Engineering C, 2017, 77, 459-469.	3.8	53
10	Direct electron transfer from glucose oxidase immobilized on an overoxidized polypyrrole film decorated with Au nanoparticles. Colloids and Surfaces B: Biointerfaces, 2013, 103, 566-571.	2.5	52
11	Nano-size layered manganeseâ€“calcium oxide as an efficient and biomimetic catalyst for water oxidation under acidic conditions: comparable to platinum. Dalton Transactions, 2013, 42, 5085.	1.6	50
12	Ultrasensitive aptamer-based on-off assay for lysozyme using a glassy carbon electrode modified with gold nanoparticles and electrochemically reduced graphene oxide. Mikrochimica Acta, 2016, 183, 2733-2743.	2.5	50
13	A photo-electrochemical aptasensor for the determination of severe acute respiratory syndrome coronavirus 2 receptor-binding domain by using graphitic carbon nitride-cadmium sulfide quantum dots nanocomposite. Sensors and Actuators B: Chemical, 2021, 345, 130377.	4.0	50
14	Application of metal-organic framework as redox probe in an electrochemical aptasensor for sensitive detection of MUC1. Biosensors and Bioelectronics, 2019, 141, 111433.	5.3	49
15	A high sensitive label-free immunosensor for the determination of human serum IgG using overoxidized polypyrrole decorated with gold nanoparticle modified electrode. Materials Science and Engineering C, 2016, 59, 965-969.	3.8	48
16	Isolation of HL-60 cancer cells from the human serum sample using MnO2-PEI/Ni/Au/aptamer as a novel nanomotor and electrochemical determination of thereof by aptamer/gold nanoparticles-poly(3,4-ethylene dioxythiophene) modified GC electrode. Biosensors and Bioelectronics, 2018, 110, 141-146.	5.3	47
17	A 2-(2-hydroxyphenyl)-1H-benzimidazoleâ€“manganese oxide hybrid as a promising structural model for the tyrosine 161/histidine 190-manganese cluster in photosystem II. Dalton Transactions, 2013, 42, 879.	1.6	46
18	Simultaneous determination of CYC and VEGF165 tumor markers based on immobilization of flavin adenine dinucleotide and thionine as probes on reduced graphene oxide-poly(amidoamine)/gold nanocomposite modified dual working screen-printed electrode. Sensors and Actuators B: Chemical, 2017, 240, 1174-1181.	4.0	44

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19	Flow injection amperometric sandwich-type electrochemical aptasensor for the determination of adenocarcinoma gastric cancer cell using aptamer-Au@Ag nanoparticles as labeled aptamer. Electrochimica Acta, 2017, 246, 1147-1154.	2.6	43
20	An Electrochemical Impedance Spectroscopy-Based Aptasensor for the Determination of SARS-CoV-2-RBD Using a Carbon Nanofiberâ€“Gold Nanocomposite Modified Screen-Printed Electrode. Biosensors, 2022, 12, 142.	2.3	38
21	A photoelectrochemical sandwich immunoassay for protein S100Î², a biomarker for Alzheimerâ€™s disease, using an ITO electrode modified with a reduced graphene oxide-gold conjugate and CdS-labeled secondary antibody. Mikrochimica Acta, 2019, 186, 117.	2.5	36
22	A novel electrochemical cyanide sensor using gold nanoparticles decorated carbon ceramic electrode. Microchemical Journal, 2017, 133, 485-489.	2.3	35
23	Flow injection amperometric sandwich-type aptasensor for the determination of human leukemic lymphoblast cancer cells using MWCNTs-Pdnano/PTCA/aptamer as labeled aptamer for the signal amplification. Analytica Chimica Acta, 2017, 985, 61-68.	2.6	34
24	Zinc oxide-gold nanocomposite as a proper platform for label-free DNA biosensor. Bioelectrochemistry, 2020, 133, 107458.	2.4	33
25	A Facile Oneâ€Step Method for the Synthesis of Reduced Graphene Oxide Nanocomposites by NADH as Reducing Agent and Its Application in NADH Sensing. Electroanalysis, 2014, 26, 171-177.	1.5	32
26	An electrochemical aptamer-based assay for femtomolar determination of insulin using a screen printed electrode modified with mesoporous carbon and 1,3,6,8-pyrenetetrasulfonate. Mikrochimica Acta, 2018, 185, 59.	2.5	32
27	An ultrasensitive sandwich-type electrochemical immunosensor for the determination of SKBR-3 breast cancer cell using rGO-TPA/FeHCFnano labeled Anti-HCT as a signal tag. Sensors and Actuators B: Chemical, 2017, 243, 823-830.	4.0	31
28	CdTe amplification nanoplatforms capped with thioglycolic acid for electrochemical aptasensing of ultra-traces of ATP. Materials Science and Engineering C, 2016, 69, 1354-1360.	3.8	30
29	Direct electron transfer from glucose oxidase immobilized on a nano-porous glassy carbon electrode. Electrochimica Acta, 2011, 56, 10101-10106.	2.6	27
30	A High Sensitive TNT Sensor Based on Electrochemically Reduced Graphene Oxideâ€Poly(amidoamine) Modified Electrode. Electroanalysis, 2015, 27, 1466-1472.	1.5	27
31	Highly sensitive non-enzymatic electrochemical glucose sensor by Nafion/SBA-15-Cu (II) modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2017, 799, 406-412.	1.9	24
32	Highly sensitive aptasensor based on interferometric reflectance spectroscopy for the determination of amyloid Î² as an Alzheimer's disease biomarkers using nanoporous anodic alumina. Biosensors and Bioelectronics, 2019, 137, 279-286.	5.3	24
33	Eco-friendly one-pot synthesis of gold decorated reduced graphene oxide using beer as a reducing agent. Journal of Industrial and Engineering Chemistry, 2014, 20, 4327-4331.	2.9	23
34	Achieving direct electrochemistry of glucose oxidase by one step electrochemical reduction of graphene oxide and its use in glucose sensing. Materials Science and Engineering C, 2014, 45, 103-108.	3.8	22
35	Remote biosensor for the determination of trypsin by using nanoporous anodic alumina as a three-dimensional nanostructured material. Scientific Reports, 2020, 10, 2356.	1.6	21
36	Highly sensitive IRS based biosensor for the determination of cytochrome c as a cancer marker by using nanoporous anodic alumina modified with trypsin. Biosensors and Bioelectronics, 2020, 149, 111828.	5.3	17

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37	Electrocatalytic Determination of Traces of Hydrazine by a Glassy Carbon Electrode Modified with Palladiumâ€Gold Nanoparticles. Electroanalysis, 2014, 26, 1994-2001.	1.5	16
38	Eco-synthesis of graphene and its use in dihydronicotinamide adenine dinucleotide sensing. Analytical Biochemistry, 2014, 460, 29-35.	1.1	16
39	A highly sensitive electrochemical sensor for the determination of methanol based on PdNPs@SBA-15-PrEn modified electrode. Analytical Biochemistry, 2018, 548, 32-37.	1.1	16
40	Highly sensitive remote biosensor for the determination of lead (II) ions by using nanoporous anodic alumina modified with DNAzyme. Sensors and Actuators B: Chemical, 2020, 321, 128314.	4.0	16
41	Highly Sensitive RNA-Based Electrochemical Aptasensor for the Determination of C-Reactive Protein Using Carbon Nanofiber-Chitosan Modified Screen-Printed Electrode. Nanomaterials, 2022, 12, 415.	1.9	16
42	The electrochemical copolymerization of diphenylamine and p-phenylenediamine and its use as a modified electrode for amperometric determination of iodate. Journal of Electroanalytical Chemistry, 2014, 724, 8-14.	1.9	14
43	An optical biosensor for the determination of cathepsin B as a cancer-associated enzyme using nanoporous anodic alumina modified with human serum albumin-thionine. Mikrochimica Acta, 2020, 187, 230.	2.5	13
44	Advances in Optical Biosensors and Sensors Using Nanoporous Anodic Alumina. Sensors, 2020, 20, 5068.	2.1	12
45	Highly sensitive aptasensor for the detection of SARS-CoV-2-RBD using aptamer-gated methylene blue@mesoporous silica film/laser engraved graphene electrode. Biosensors and Bioelectronics, 2022, 215, 114556.	5.3	12
46	A highly sensitive hydrogen peroxide sensor based on (Agâ€“Au NPs)/poly[o -phenylenediamine] modified glassy carbon electrode. Materials Science and Engineering C, 2015, 56, 426-431.	3.8	11
47	Biomagnetic separation and pre-concentration of trace amounts of Hg²⁺ in biological samples based on T-rich oligonucleotide modified magnetic beads. Analytical Methods, 2015, 7, 8947-8953.	1.3	11
48	An electrochemical membrane-based aptasensor for detection of severe acute respiratory syndrome coronavirus-2 receptor-binding domain. Applied Surface Science, 2022, 598, 153867.	3.1	11
49	Remote sensing of Salmonella-specific DNA fragment by using nanoporous alumina modified with the single-strand DNA probe. Sensors and Actuators B: Chemical, 2020, 304, 127302.	4.0	9
50	Imidazolium or guanidinium/layered manganese (III, IV) oxide hybrid as a promising structural model for the water-oxidizing complex of Photosystem II for artificial photosynthetic systems. Photosynthesis Research, 2013, 117, 413-421.	1.6	7
51	A simple method for the fabrication of nanomotors based on a gold nanosheet decorated with CoPt nanoparticles. RSC Advances, 2015, 5, 51508-51511.	1.7	6
52	Self-assembling of Prussian blue nanocubic particles on nanoporous glassy carbon and its use in the electrocatalytic reduction of hydrogen peroxide. Journal of the Iranian Chemical Society, 2014, 11, 1015-1020.	1.2	3
53	The Electrochemical Aptasensors for the Determination of Tumor Markers. , 2018, , 193-218.		2
54	Nanoporous Anodic Alumina As a Three-dimensional Nanostructured material for the Remote Optical Sensing of Urea. ECS Meeting Abstracts, 2020, MA2020-01, 1424-1424.	0.0	1