

Masoud Ayatollahi Mehrgardi

List of Publications by Year in descending order

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58
papers

1,989
citations

236912

25
h-index

254170

43
g-index

60
all docs

60
docs citations

60
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	Sprayed Water Microdroplets Are Able to Generate Hydrogen Peroxide Spontaneously. <i>Journal of the American Chemical Society</i> , 2022, 144, 7606-7609.	13.7	69
2	Bevacizumab and folic acid dual-targeted gadolinium-carbon dots for fluorescence/magnetic resonance imaging of hepatocellular carcinoma. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102288.	3.0	6
3	Aptamer modified nanoprobes for multimodal fluorescence/magnetic resonance imaging of human ovarian cancer cells. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	6
4	Fluorescence resonance energy transfer monitoring of pH-responsive doxorubicin release from carbon dots/apptamer functionalized magnetic mesoporous silica. <i>Nanomedicine</i> , 2021, 16, 627-639.	3.3	6
5	Folic acid-functionalized gadolinium-loaded phase transition nanodroplets for dual-modal ultrasound/magnetic resonance imaging of hepatocellular carcinoma. <i>Talanta</i> , 2021, 228, 122245.	5.5	13
6	A label-free electrochemical aptasensor for breast cancer cell detection based on a reduced graphene oxide-chitosan-gold nanoparticle composite. <i>Bioelectrochemistry</i> , 2021, 140, 107807.	4.6	39
7	Trastuzumab and folic acid functionalized gold nanoclusters as a dual-targeted radiosensitizer for megavoltage radiation therapy of human breast cancer. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 153, 105487.	4.0	23
8	Cancer Cell Detection—Based on Released Hydrogen Peroxide Using a Non-Modified Closed Bipolar Electrochemical System. <i>ChemElectroChem</i> , 2020, 7, 3439-3444.	3.4	13
9	Spectrofluorometric genotyping of single nucleotide polymorphisms using carbon dots as fluorophores. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 154-159.	3.9	2
10	AS1411-conjugated gold nanoparticles affect cell proliferation through a mechanism that seems independent of nucleolin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 21, 102060.	3.3	14
11	Aptamer-based electrochemical biosensors. , 2019, , 213-251.		10
12	Rich-color visual genotyping of single-nucleotide polymorphisms based on platinum nanoparticle-induced etching of gold nanorods. <i>Emergent Materials</i> , 2019, 2, 351-361.	5.7	5
13	Investigation of different targeting decorations effect on the radiosensitizing efficacy of albumin-stabilized gold nanoparticles for breast cancer radiation therapy. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 130, 225-233.	4.0	42
14	Enhanced Visual Wireless Electrochemiluminescence Immunosensing of Prostate-Specific Antigen Based on the Luminol Loaded into MIL-53(Fe)-NH ₂ Accelerator and Hydrogen Evolution Reaction Mediation. <i>Analytical Chemistry</i> , 2019, 91, 6383-6390.	6.5	71
15	Alive attenuated <i>Salmonella</i> as a cargo shuttle for smart carrying of gold nanoparticles to tumour hypoxic regions. <i>Journal of Drug Targeting</i> , 2019, 27, 315-324.	4.4	17
16	Preparation and Characterization of Spion-CDs as a Multifunctional Fluorescence/Magnetic Resonance Nanoparticle. <i>Acta Chemica Iasi</i> , 2019, 27, 87-98.	0.1	2
17	AS1411 aptamer conjugated gold nanoclusters as a targeted radiosensitizer for megavoltage radiation therapy of 4T1 breast cancer cells. <i>RSC Advances</i> , 2018, 8, 4249-4258.	3.6	75
18	Visual electrochemiluminescence biosensing of aflatoxin M1 based on luminol-functionalized, silver nanoparticle-decorated graphene oxide. <i>Biosensors and Bioelectronics</i> , 2018, 100, 382-388.	10.1	119

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19	AS1411 aptamer-targeted gold nanoclusters effect on the enhancement of radiation therapy efficacy in breast tumor-bearing mice. <i>Nanomedicine</i> , 2018, 13, 2563-2578.	3.3	48
20	Green and Facile Synthesis of Highly Photoluminescent Multicolor Carbon Nanocrystals for Cancer Therapy and Imaging. <i>ACS Applied Bio Materials</i> , 2018, 1, 1458-1467.	4.6	12
21	Electrochemiluminescence detection of human breast cancer cells using aptamer modified bipolar electrode mounted into 3D printed microchannel. <i>Biosensors and Bioelectronics</i> , 2018, 118, 217-223.	10.1	78
22	Aptamer functionalized magnetic nanoparticles for effective extraction of ultratrace amounts of aflatoxin M1 prior its determination by HPLC. <i>Journal of Chromatography A</i> , 2018, 1564, 85-93.	3.7	52
23	Amplified detection of hepatitis B virus using an electrochemical DNA biosensor on a nanoporous gold platform. <i>Bioelectrochemistry</i> , 2017, 117, 83-88.	4.6	49
24	A simple non-enzymatic strategy for adenosine triphosphate electrochemical aptasensor using silver nanoparticle-decorated graphene oxide. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2007-2016.	2.2	15
25	Amplified detection of leukemia cancer cells using an aptamer-conjugated gold-coated magnetic nanoparticles on a nitrogen-doped graphene modified electrode. <i>Bioelectrochemistry</i> , 2017, 114, 24-32.	4.6	109
26	Carbon Dots-AS1411 Aptamer Nanoconjugate for Ultrasensitive Spectrofluorometric Detection of Cancer Cells. <i>Scientific Reports</i> , 2017, 7, 10513.	3.3	60
27	BSA-templated Pb Nanocluster as a Biocompatible Signaling Probe for Electrochemical EGFR Immunosensing. <i>Electroanalysis</i> , 2017, 29, 861-872.	2.9	8
28	Scanning Electrochemical Microscopy for Electrochemical Detection of Single-base Mismatches by Tagging Ferrocenecarboxylic Acid as a Redox Probe to DNA. <i>Electroanalysis</i> , 2016, 28, 823-832.	2.9	11
29	Closed Bipolar Electrochemistry for the Detection of Human Immunodeficiency Virus Short Oligonucleotide. <i>Electrochimica Acta</i> , 2016, 222, 1483-1490.	5.2	11
30	A digoxin electrochemical aptasensor using Ag nanoparticle decorated graphene oxide. <i>Analytical Methods</i> , 2016, 8, 7247-7253.	2.7	20
31	Label-free and sensitive impedimetric nanosensor for the detection of cocaine based on a supramolecular complexation with β -cyclodextrin, immobilized on a nanostructured polymer film. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 659-669.	2.2	13
32	Aptamer-conjugated Magnetic Nanoparticles as Targeted Magnetic Resonance Imaging Contrast Agent for Breast Cancer. <i>Journal of Medical Signals and Sensors</i> , 2016, 6, 243-247.	1.0	11
33	Amplified electrochemical genotyping of single-nucleotide polymorphisms using a graphene-gold nanoparticles modified glassy carbon platform. <i>RSC Advances</i> , 2015, 5, 29285-29293.	3.6	16
34	Wireless Electrochemiluminescence Bipolar Electrode Array for Visualized Genotyping of Single Nucleotide Polymorphism. <i>Analytical Chemistry</i> , 2015, 87, 8123-8131.	6.5	52
35	Prussian blue-modified nanoporous gold film electrode for amperometric determination of hydrogen peroxide. <i>Bioelectrochemistry</i> , 2014, 98, 64-69.	4.6	39
36	Ultrasensitive Detection of Human Liver Hepatocellular Carcinoma Cells Using a Label-Free Aptasensor. <i>Analytical Chemistry</i> , 2014, 86, 4956-4960.	6.5	112

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37	Dual amplification of single nucleotide polymorphism detection using graphene oxide and nanoporous gold electrode platform. <i>Analyst</i> , The, 2014, 139, 5192-5199.	3.5	24
38	Electrochemical Genotyping of Single Nucleotide Polymorphisms by using Monobase Conjugated Modified Nanoparticles. <i>ChemElectroChem</i> , 2014, 1, 779-786.	3.4	12
39	Electrochemical Investigation of Cytochrome c Immobilized onto Self Assembled Monolayer of Captopril. <i>Electroanalysis</i> , 2013, 25, 1689-1696.	2.9	7
40	Preparation of a new electrochemical biosensor for single base mismatch detection in DNA. <i>Analytical Methods</i> , 2013, 5, 6531.	2.7	17
41	Aptamer-based electrochemical biosensor for detection of adenosine triphosphate using a nanoporous gold platform. <i>Bioelectrochemistry</i> , 2013, 94, 47-52.	4.6	47
42	Aptamer-conjugated silver nanoparticles for electrochemical detection of adenosine triphosphate. <i>Biosensors and Bioelectronics</i> , 2012, 37, 94-98.	10.1	87
43	Nanoporous gold electrode as a platform for the construction of an electrochemical DNA hybridization biosensor. <i>Biosensors and Bioelectronics</i> , 2012, 38, 252-257.	10.1	47
44	Design and construction of a label free aptasensor for electrochemical detection of sodium diclofenac. <i>Biosensors and Bioelectronics</i> , 2012, 33, 184-189.	10.1	61
45	Editorial 'ICNANO 2011' Special Issue Part-1. <i>Advanced Materials Letters</i> , 2012, 3, 441-441.	0.6	0
46	3,4-Diaminobenzoic acid (DABA) as a redox label for electrochemical detection of single base mismatches. <i>Electrochimica Acta</i> , 2011, 56, 10264-10269.	5.2	10
47	Silver nanoparticles as redox reporters for the amplified electrochemical detection of the single base mismatches. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4308-4313.	10.1	46
48	Nanoparticle-functionalized nucleic acids: A strategy for amplified electrochemical detection of some single-base mismatches. <i>Electrochimica Acta</i> , 2011, 56, 2725-2729.	5.2	15
49	Electron transfer kinetics of cytochrome c immobilized on a phenolic terminated thiol self assembled monolayer determined by scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2011, 56, 6224-6229.	5.2	14
50	Electrochemical detection of different types of single-base mismatches in DNA using copper-phthalocyanine tetrasulfonic acid. <i>Journal of Electroanalytical Chemistry</i> , 2011, 650, 214-218.	3.8	11
51	Electrocatalytic activity of thianthrene toward one-electron oxidation of guanosine and DNA in a non-aqueous medium. <i>Journal of Electroanalytical Chemistry</i> , 2010, 644, 44-49.	3.8	3
52	Cyclic voltammetry and scanning electrochemical microscopy studies of methylene blue immobilized on the self-assembled monolayer of n-dodecanethiol. <i>Electrochimica Acta</i> , 2010, 56, 896-904.	5.2	17
53	Ion transport and degradation studies of a polyaniline-modified electrode using SECM. <i>Electrochimica Acta</i> , 2009, 54, 4638-4646.	5.2	30
54	Carbon Nanofiber Electrodes and Controlled Nanogaps for Scanning Electrochemical Microscopy Experiments. <i>Analytical Chemistry</i> , 2006, 78, 6959-6966.	6.5	22

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55	Speciation of iron(II), iron(III) and full-range pH monitoring using paptode: A simple colorimetric method as an appropriate alternative for optodes. Sensors and Actuators B: Chemical, 2006, 113, 857-865.	7.8	81
56	Electrocatalytic activity of Ce(III)â€“EDTA complex toward the oxidation of nitrite ion. Talanta, 2005, 67, 579-584.	5.5	37
57	Electrocatalytic oxidation of guanine and ss-DNA at a cobalt (II) phthalocyanine modified carbon paste electrode. Journal of Electroanalytical Chemistry, 2004, 568, 261-266.	3.8	51
58	Electrocatalytic Oxidation of Guanine and DNA on a Carbon Paste Electrode Modified by Cobalt Hexacyanoferrate Films. Analytical Chemistry, 2004, 76, 5690-5696.	6.5	102