Shimaa Eissa

List of Publications by Year
in descending order

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58 papers	2,844 citations	201575 27 h-index	168321 53 g-index
58 all docs	58 docs citations	58 times ranked	3517 citing authors

#	Article	IF	Citations
1	An electrochemical immunosensor for the corona virus associated with the Middle East respiratory syndrome using an array of gold nanoparticle-modified carbon electrodes. Mikrochimica Acta, 2019, 186, 224.	2.5	322
2	Development of a Low-Cost Cotton-Tipped Electrochemical Immunosensor for the Detection of SARS-CoV-2. Analytical Chemistry, 2021, 93, 1826-1833.	3.2	173
3	Aptamer-Based Label-Free Impedimetric Biosensor for Detection of Progesterone. Analytical Chemistry, 2015, 87, 1075-1082.	3.2	140
4	Aptamer-based competitive electrochemical biosensor for brevetoxinâ€2. Biosensors and Bioelectronics, 2015, 69, 148-154.	5.3	131
5	Electrochemical immunosensor for the milk allergen Î²-lactoglobulin based on electrografting of organic film on graphene modified screen-printed carbon electrodes. Biosensors and Bioelectronics, 2012, 38, 308-313.	5.3	129
6	Label-Free Voltammetric Aptasensor for the Sensitive Detection of Microcystin-LR Using Graphene-Modified Electrodes. Analytical Chemistry, 2014, 86, 7551-7557.	3.2	126
7	Selection and Identification of DNA Aptamers against Okadaic Acid for Biosensing Application. Analytical Chemistry, 2013, 85, 11794-11801.	3.2	117
8	Diagnostic techniques for COVID-19 and new developments. Talanta, 2020, 220, 121392.	2.9	116
9	Selection and Characterization of DNA Aptamers for Electrochemical Biosensing of Carbendazim. Analytical Chemistry, 2017, 89, 3138-3145.	3.2	113
10	Corrosion resistance of monolayer hexagonal boron nitride on copper. Scientific Reports, 2017, 7, 42139.	1.6	112
11	Selection, Characterization, and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers. Environmental Science & Technology, 2012, 46, 10697-10703.	4.6	109
12	In vitro selection of DNA aptamers targeting Î²-lactoglobulin and their integration in graphene-based biosensor for the detection of milk allergen. Biosensors and Bioelectronics, 2017, 91, 169-174.	5.3	96
13	A graphene-based label-free voltammetric immunosensor for sensitive detection of the egg allergen ovalbumin. Analyst, The, 2013, 138, 4378.	1.7	88
14	High affinity truncated DNA aptamers for the development of fluorescence based progesterone biosensors. Analytical Biochemistry, 2017, 525, 78-84.	1.1	72
15	A graphene-based electrochemical competitive immunosensor for the sensitive detection of okadaic acid in shellfish. Nanoscale, 2012, 4, 7593.	2.8	70
16	Aptamer- Based Label-Free Electrochemical Biosensor Array for the Detection of Total and Glycated Hemoglobin in Human Whole Blood. Scientific Reports, 2017, 7, 1016.	1.6	67
17	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. Mikrochimica Acta, 2018, 185, 61.	2.5	61
18	Functionalized CVD monolayer graphene for label-free impedimetric biosensing. Nano Research, 2015, 8, 1698-1709.	5.8	59

#	Article	IF	Citations
19	Voltammetric-based immunosensor for the detection of SARS-CoV-2 nucleocapsid antigen. Mikrochimica Acta, 2021, 188, 199.	2.5	59
20	Rapid colorimetric lactoferrin-based sandwich immunoassay on cotton swabs for the detection of foodborne pathogenic bacteria. Talanta, 2018, 185, 275-280.	2.9	57
21	Electrochemical immunosensors for the detection of survival motor neuron (SMN) protein using different carbon nanomaterials-modified electrodes. Biosensors and Bioelectronics, 2018, 101, 282-289.	5.3	55
22	Ultrasensitive peptide-based multiplexed electrochemical biosensor for the simultaneous detection of Listeria monocytogenes and Staphylococcus aureus. Mikrochimica Acta, 2020, 187, 486.	2.5	54
23	A dual electrochemical/colorimetric magnetic nanoparticle/peptide-based platform for the detection of Staphylococcus aureus. Analyst, The, 2020, 145, 4606-4614.	1.7	44
24	Competitive voltammetric morphine immunosensor using a gold nanoparticle decorated graphene electrode. Mikrochimica Acta, 2017, 184, 2281-2289.	2.5	36
25	A rapid colorimetric immunoassay for the detection of pathogenic bacteria on poultry processing plants using cotton swabs and nanobeads. Mikrochimica Acta, 2018, 185, 164.	2.5	33
26	Recent developments towards portable point-of-care diagnostic devices for pathogen detection. Sensors & Diagnostics, 2022, 1, 87-105.	1.9	31
27	Disposable electrochemical immunosensor array for the multiplexed detection of the drug metabolites morphine, tetrahydrocannabinol and benzoylecgonine. Mikrochimica Acta, 2019, 186, 523.	2.5	29
28	Electrochemical SELEX Technique for the Selection of DNA Aptamers against the Small Molecule 11-Deoxycortisol. ACS Applied Bio Materials, 2019, 2, 2624-2632.	2.3	29
29	InÂvitro selection of DNA aptamers and their integration in a competitive voltammetric biosensor for azlocillin determination in waste water. Analytica Chimica Acta, 2020, 1101, 149-156.	2.6	27
30	Electrochemical determination of zearalenone using aÂlabel-free competitive aptasensor. Mikrochimica Acta, 2020, 187, 266.	2.5	27
31	Truncated aptamers for total and glycated hemoglobin, and their integration into a graphene oxide-based fluorometric method for high-throughput screening for diabetes. Mikrochimica Acta, 2018, 185, 256.	2.5	26
32	A comparison of the performance of voltammetric aptasensors for glycated haemoglobin on different carbon nanomaterials-modified screen printed electrodes. Materials Science and Engineering C, 2019, 101, 423-430.	3.8	23
33	Multiplexed detection of DOCK8, PGM3 and STAT3 proteins for the diagnosis of Hyper-Immunoglobulin E syndrome using gold nanoparticles-based immunosensor array platform. Biosensors and Bioelectronics, 2018, 117, 613-619.	5.3	20
34	Probing the influence of graphene oxide sheets size on the performance of label-free electrochemical biosensors. Scientific Reports, 2020, 10, 13612.	1.6	20
35	Electrochemical study of indapamide and its complexation with Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 71, 95-102.	1.6	18
36	In Vitro Selection of Specific DNA Aptamers Against the Anti-Coagulant Dabigatran Etexilate. Scientific Reports, 2018, 8, 13290.	1.6	18

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37	Carbon nanofiber-based multiplexed immunosensor for the detection of survival motor neuron 1, cystic fibrosis transmembrane conductance regulator and Duchenne Muscular Dystrophy proteins. Biosensors and Bioelectronics, 2018, 117, 84-90.	5.3	18
38	Determination of minimal sequence for zearalenone aptamer by computational docking and application on an indirect competitive electrochemical aptasensor. Analytical and Bioanalytical Chemistry, 2021, 413, 3861-3872.	1.9	14
39	Voltammetric and spectrophotometric study on the complexation of glibenclamide with Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 68, 417-421.	1.6	12
40	Electrochemical Study of Gliclazide and Its Complexation with Î²â€Cyclodextrin. Electroanalysis, 2010, 22, 2991-2996.	1.5	12
41	Combination of Carbon Nanofiber-Based Electrochemical Biosensor and Cotton Fiber: A Device for the Detection of the Middle-East Respiratory Syndrome Coronavirus. ACS Omega, 2021, 6, 32072-32080.	1.6	11
42	Ultrasensitive Labelâ€free Electrochemical Immunosensors for Multiple Cell Surface Biomarkers on Liver Cancer Stem Cells. Electroanalysis, 2017, 29, 1994-2000.	1.5	10
43	Sensitive detection of mitragynine from Mitragyna speciosa Korth using an electrochemical immunosensor based on multiwalled carbon nanotubes/chitosan- modified carbon electrode. Sensors and Actuators B: Chemical, 2021, 345, 130356.	4.0	10
44	Selection, characterization, and electrochemical biosensing application of DNA aptamers for sepiapterin. Talanta, 2020, 216, 120951.	2.9	9
45	Electrochemical Immunosensors for the Rapid Screening of Cystic Fibrosis and Duchenne Muscular Dystrophy. Electroanalysis, 2017, 29, 1911-1917.	1.5	8
46	Electrochemical selection of a DNA aptamer, and an impedimetric method for determination of the dedicator of cytokinesis 8 by self-assembly of a thiolated aptamer on a gold electrode. Mikrochimica Acta, 2019, 186, 828.	2.5	6
47	Electrochemical study of glimepiride and its complexation with Î²-cyclodextrin. Collection of Czechoslovak Chemical Communications, 2011, 76, 13-25.	1.0	5
48	Voltammetric Labelâ€free Immunosensors for the Diagnosis of Cystic Echinococcosis. Electroanalysis, 2020, 32, 1170-1177.	1.5	5
49	Label-free Impedimetric Immunosensors for Liver Cancer Stem Cells. Procedia Technology, 2017, 27, 287-289.	1.1	4
50	AntibodiesVersusAptamers: A Comparative View. RSC Detection Science, 2019, , 303-331.	0.0	4
51	Diagnostic biosensors for coronaviruses and recent developments. , 2022, , 261-278.		4
52	Design and Fabrication of Integrated Multianalyte Sensing Platform With Magnetic Micro-Coils. Journal of Microelectromechanical Systems, 2013, 22, 1339-1346.	1.7	2
53	Development of Impedimetric Immunosensors for the Diagnosis of DOCK8 and STAT3 Related Hyperâ€Immunoglobulin E Syndrome. Electroanalysis, 2018, 30, 2021-2027.	1.5	2
54	CHAPTER 14. Graphene-Based Biosensors for Food Analysis. Food Chemistry, Function and Analysis, 2016, , 327-353.	0.1	1

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55	Development of Electrochemical Aptamer-Based Biosensors for the Detection of Hormonal Contaminants in Water. ECS Meeting Abstracts, 2015, , .	0.0	0
56	Aptamer-Based Electrochemical Biosensors for Marine Toxins. ECS Meeting Abstracts, 2015, , .	0.0	0
57	Selection, Characterization, and Application of High Affinity Microcystin-Targeting Aptamers in a Graphene-Based Biosensing Platform. ECS Meeting Abstracts, 2015, , .	0.0	0
58	Advances in Biosensor Technologies for Food Allergen Monitoring and Diagnosis. , 2017, , 289-310.		0