

Rabeay Y A Hassan

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,444
citations

331259

21
h-index

344852

36
g-index

51
all docs

51
docs citations

51
times ranked

1136
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Impedance Spectroscopy (EIS): Principles, Construction, and Biosensing Applications. <i>Sensors</i> , 2021, 21, 6578.	2.1	360
2	Synthesis, characterization and electrochemical-sensor applications of zinc oxide/graphene oxide nanocomposite. <i>Journal of Nanostructure in Chemistry</i> , 2016, 6, 137-144.	5.3	97
3	Point-of-Care Diagnostics of COVID-19: From Current Work to Future Perspectives. <i>Sensors</i> , 2020, 20, 4289.	2.1	67
4	Multifunctional Nanotechnology-Enabled Sensors for Rapid Capture and Detection of Pathogens. <i>Sensors</i> , 2017, 17, 2121.	2.1	62
5	SARS-CoV-2-Impedimetric Biosensor: Virus-Imprinted Chips for Early and Rapid Diagnosis. <i>ACS Sensors</i> , 2021, 6, 4098-4107.	4.0	48
6	Direct electrochemical determination of <i>Candida albicans</i> activity. <i>Biosensors and Bioelectronics</i> , 2013, 49, 192-198.	5.3	35
7	Monitoring of microbial cell viability using nanostructured electrodes modified with Graphene/Alumina nanocomposite. <i>Biosensors and Bioelectronics</i> , 2017, 91, 857-862.	5.3	31
8	A viability assay for <i>Candida albicans</i> based on the electron transfer mediator 2,6-dichlorophenolindophenol. <i>Analytical Biochemistry</i> , 2011, 419, 26-32.	1.1	30
9	Sensing of bacterial cell viability using nanostructured bioelectrochemical system: rGO-hyperbranched chitosan nanocomposite as a novel microbial sensor platform. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 191-200.	4.0	30
10	A new disposable biosensor platform: carbon nanotube/poly(o-toluidine) nanocomposite for direct biosensing of urea. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1817-1823.	1.2	30
11	Designing and fabrication of new VIP biosensor for the rapid and selective detection of foot-and-mouth disease virus (FMDV). <i>Biosensors and Bioelectronics</i> , 2019, 141, 111467.	5.3	30
12	Fabrication of electrochemical immunosensor based on GCN- β -CD/Au nanocomposite for the monitoring of vitamin D deficiency. <i>Bioelectrochemistry</i> , 2022, 143, 107935.	2.4	30
13	Nanomaterials-based microbial sensor for direct electrochemical detection of <i>Streptomyces</i> Spp.. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 848-853.	4.0	29
14	Voltammetric determination of mercury in biological samples using crown ether/multiwalled carbon nanotube-based sensor. <i>Journal of Electroanalytical Chemistry</i> , 2015, 759, 101-106.	1.9	29
15	Microbial Electrochemical Systems: Principles, Construction and Biosensing Applications. <i>Sensors</i> , 2021, 21, 1279.	2.1	29
16	Mediated bioelectrochemical system for biosensing the cell viability of <i>Staphylococcus aureus</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 579-587.	1.9	27
17	Assisting the biofilm formation of exoelectrogens using nanostructured microbial fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 128-135.	1.9	27
18	Bio-electrochemical frameworks governing microbial fuel cell performance: technical bottlenecks and proposed solutions. <i>RSC Advances</i> , 2022, 12, 5749-5764.	1.7	25

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19	Manganese dioxide-coreâ€‘shell hyperbranched chitosan (MnO ₂ â€‘HBCs) nano-structured screen printed electrode for enzymatic glucose biosensors. RSC Advances, 2016, 6, 109185-109191.	1.7	24
20	Bioelectrochemical Systems for Measuring Microbial Cellular Functions. Electroanalysis, 2017, 29, 1498-1505.	1.5	24
21	Polyurethane-doped platinum nanoparticles modified carbon paste electrode for the sensitive and selective voltammetric determination of free copper ions in biological samples. Microchemical Journal, 2020, 155, 104765.	2.3	24
22	Formation of electroactive biofilms derived by nanostructured anodes surfaces. Bioprocess and Biosystems Engineering, 2021, 44, 759-768.	1.7	24
23	Sensing of oxygen in microtiter plates: a novel tool for screening drugs against pathogenic yeasts. Analytical and Bioanalytical Chemistry, 2008, 391, 1731-1737.	1.9	23
24	Direct Determination of Bacterial Cell Viability Using Carbon Nanotubes Modified Screenâ€‘printed Electrodes. Electroanalysis, 2019, 31, 1112-1117.	1.5	21
25	Microbial Sensing and Removal of Heavy Metals: Bioelectrochemical Detection and Removal of Chromium(VI) and Cadmium(II). Molecules, 2021, 26, 2549.	1.7	21
26	Synthesis, Characterization, and Electrochemical Sensing Applications of Bimetallic Oxide/Carbon Nanomaterials Hybrids. Journal of the Electrochemical Society, 2022, 169, 047518.	1.3	20
27	Development of Bioelectrochemical System for Monitoring the Biodegradation Performance of Activated Sludge. Applied Biochemistry and Biotechnology, 2015, 175, 3519-3530.	1.4	19
28	A Disposable Carbon Nanotubesâ€‘screen Printed Electrode (CNTsâ€‘SPE) for Determination of the Antifungal Agent Posaconazole in Biological Samples. Electroanalysis, 2017, 29, 843-849.	1.5	19
29	New sensing platform of poly(ester-urethane)urea doped with gold nanoparticles for rapid detection of mercury ions in fish tissue. RSC Advances, 2021, 11, 31845-31854.	1.7	19
30	High selectivity detection of FMDV- SAT-2 using a newly-developed electrochemical nanosensors. Biosensors and Bioelectronics, 2021, 191, 113435.	5.3	19
31	Carbon nanotube-based electrochemical biosensors for determination of Candida albicansâ€™ quorum sensing molecule. Sensors and Actuators B: Chemical, 2017, 244, 565-570.	4.0	18
32	Antifungal compounds redirect metabolic pathways in yeasts: metabolites as indicators of modes of action. Journal of Applied Microbiology, 2010, 108, 462-471.	1.4	17
33	Electrochemical detection of dihydronicotinamide adenine dinucleotide using Al ₂ O ₃ -GO nanocomposite modified electrode. Arabian Journal of Chemistry, 2018, 11, 942-949.	2.3	17
34	Exploring the Bioelectrochemical Characteristics of Activated Sludge Using Cyclic Voltammetry. Applied Biochemistry and Biotechnology, 2018, 184, 92-101.	1.4	16
35	Online-monitoring of biofilm formation using nanostructured electrode surfaces. Materials Science and Engineering C, 2019, 100, 178-185.	3.8	16
36	Voltammetric determination of <i>Salmonella typhimurium</i> in minced beef meat using a chip-based imprinted sensor. RSC Advances, 2022, 12, 3445-3453.	1.7	12

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37	Biosensing of algal photosynthetic productivity using nanostructured bioelectrochemical systems. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1028-1037.	1.6	11
38	Manganese dioxide (MnO ₂)/Fullerene-C60-Modified Electrodes for the Voltammetric Determination of Rifaximin. <i>Journal of Analysis and Testing</i> , 2021, 5, 341-349.	2.5	11
39	Core-shell hyperbranched chitosan nanostructure as a novel electrode modifier. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 543-546.	3.6	10
40	Regulation of <i>Candida albicans</i> Interaction with Macrophages through the Activation of HOG Pathway by Genistein. <i>Molecules</i> , 2016, 21, 162.	1.7	9
41	Effect of vitamins and cell constructions on the activity of microbial fuel cell battery. <i>Journal of Genetic Engineering and Biotechnology</i> , 2018, 16, 369-373.	1.5	7
42	Inhibition of Respiration of <i>Candida albicans</i> by Small Molecules Increases Phagocytosis Efficacy by Macrophages. <i>MSphere</i> , 2020, 5, .	1.3	6
43	Disposable impedimetric nano-immunochips for the early and rapid diagnosis of Vitamin-D deficiency. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100124.	0.9	6
44	Boosting the cathode function toward the oxygen reduction reaction in microbial fuel cell using nanostructured surface modification. <i>Electrochemical Science Advances</i> , 2021, 1, e2000002.	1.2	5
45	Synthesis and characterization of nanostructured copper and lanthanum doped zirconia for voltammetric sensing of tumor biomarkers. <i>Electrochemical Science Advances</i> , 2022, 2, e2100109.	1.2	3
46	Biological Insights of Fluoroaryl-2,2-Bichalcophene Compounds on Multi-Drug Resistant <i>Staphylococcus aureus</i> . <i>Molecules</i> , 2021, 26, 139.	1.7	3
47	Waste to energy conversion utilizing nanostructured Algal based microbial fuel cells. <i>Electrochemical Science Advances</i> , 2022, 2, e2100071.	1.2	3
48	A better understanding of the polymeric irradiation using physico-electrochemical characteristics. <i>Radiation Effects and Defects in Solids</i> , 2021, 176, 1021-1037.	0.4	1
49	Voltammetric Determination of Mercury in Biological Samples Using Crown Ether/Multiwalled Carbon Nanotube-Based Sensor. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
50	Biosynthesis and Bio-sensing Applications of Silver and Gold Metal Nanoparticles. <i>Egyptian Journal of Chemistry</i> , 2020, .	0.1	0