Jaafar Abdullah

List of Publications by Year
in descending order

111 papers	2,948 citations	126708 33 h-index	197535 49 g-index
111 all docs	111 docs citations	111 times ranked	3388 citing authors

#	Article	IF	Citations
1	A simple and sensitive fluorescence based biosensor for the determination of uric acid using H_2O_2-sensitive quantum dots/dual enzymes. Biosensors and Bioelectronics, 2015, 67, 129-133.	5.3	150
2	Immobilization of tyrosinase in chitosan film for an optical detection of phenol. Sensors and Actuators B: Chemical, 2006, 114, 604-609.	4.0	106
3	Sensitive Detection of Dengue Virus Type 2 E-Proteins Signals Using Self-Assembled Monolayers/Reduced Graphene Oxide-PAMAM Dendrimer Thin Film-SPR Optical Sensor. Scientific Reports, 2020, 10, 2374.	1.6	106
4	PNA biosensor based on reduced graphene oxide/water soluble quantum dots for the detection of Mycobacterium tuberculosis. Sensors and Actuators B: Chemical, 2017, 241, 1024-1034.	4.0	88
5	Nanocrystalline cellulose decorated quantum dots based tyrosinase biosensor for phenol determination. Materials Science and Engineering C, 2019, 99, 37-46.	3.8	78
6	An Optical Biosensor based on Immobilization of Laccase and MBTH in Stacked Films for the Detection of Catechol.. Sensors, 2007, 7, 2238-2250.	2.1	75
7	Review—Electrochemical Detection of Uric Acid, Dopamine and Ascorbic Acid. Journal of the Electrochemical Society, 2018, 165, B258-B267.	1.3	72
8	Development of an optical sensor based on surface plasmon resonance phenomenon for diagnosis of dengue virus E-protein. Sensing and Bio-Sensing Research, 2018, 20, 16-21.	2.2	69
9	Sensitive surface plasmon resonance performance of cadmium sulfide quantum dots-amine functionalized graphene oxide based thin film towards dengue virus E-protein. Optics and Laser Technology, 2019, 114, 204-208.	2.2	66
10	Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/Chitosan for Phenolic Detection in Aqueous. Sensors, 2017, 17, 1132.	2.1	64
11	Construction of an Electrochemical Sensor Based on Carbon Nanotubes/Gold Nanoparticles for Trace Determination of Amoxicillin in Bovine Milk. Sensors, 2016, 16, 56.	2.1	63
12	Quantitative and Selective Surface Plasmon Resonance Response Based on a Reduced Graphene Oxide—Polyamidoamine Nanocomposite for Detection of Dengue Virus E-Proteins. Nanomaterials, 2020, 10, 569.	1.9	63
13	Folic acid targeted Mn:ZnS quantum dots for theranostic applications of cancer cell imaging and therapy. International Journal of Nanomedicine, 2016, 11, 413.	3.3	62
14	In vivo tumor targeting and anti-tumor effects of 5-fluororacil loaded, folic acid targeted quantum dot system. Journal of Colloid and Interface Science, 2016, 480, 146-158.	5.0	61
15	The Development of Silicon Nanowire as Sensing Material and Its Applications. Journal of Nanomaterials, 2013, 2013, 1-16.	1.5	57
16	A promising electrochemical sensor based on Au nanoparticles decorated reduced graphene oxide for selective detection of herbicide diuron in natural waters. Journal of Applied Electrochemistry, 2016, 46, 655-666.	1.5	57
17	Chitosan-based tyrosinase optical phenol biosensor employing hybrid nafion/sol—gel silicate for MBTH immobilization. Talanta, 2006, 70, 527-532.	2.9	54
18	A screen printed carbon electrode modified with carbon nanotubes and gold nanoparticles as a sensitive electrochemical sensor for determination of thiamphenicol residue in milk. RSC Advances, 2018, 8, 2714-2722.	1.7	54

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19	Electrochemical performance of poly(3, 4-ethylenedioxythipohene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor. Carbohydrate Polymers, 2019, 203, 128-138.	5.1	51
20	Synthesis and Characterization of Polyaniline/Graphene Composite Nanofiber and Its Application as an Electrochemical DNA Biosensor for the Detection of Mycobacterium tuberculosis. Sensors, 2017, 17, 2789.	2.1	50
21	Electrodeposition of poly(3,4-ethylenedioxythiophene)/reduced graphene oxide/manganese dioxide for simultaneous detection of uric acid, dopamine and ascorbic acid. Journal of Electroanalytical Chemistry, 2018, 820, 74-81.	1.9	48
22	A simple, portable, electrochemical biosensor to screen shellfish for Vibrio parahaemolyticus. AMB Express, 2017, 7, 41.	1.4	46
23	Exploration of surface plasmon resonance for sensing copper ion based on nanocrystalline cellulose-modified thin film. Optics Express, 2018, 26, 34880.	1.7	46
24	Electrochemical sensor based on gold nanoparticles/ethylenediamine-reduced graphene oxide for trace determination of fenitrothion in water. RSC Advances, 2016, 6, 89430-89439.	1.7	45
25	The utilization of SiNWs/AuNPs-modified indium tin oxide (ITO) in fabrication of electrochemical DNA sensor. Materials Science and Engineering C, 2014, 45, 270-276.	3.8	44
26	A Novel Disposable Biosensor Based on SiNWs/AuNPs Modified-Screen Printed Electrode for Dengue Virus DNA Oligomer Detection. IEEE Sensors Journal, 2015, 15, 4420-4427.	2.4	44
27	Design and analysis of surface plasmon resonance optical sensor for determining cobalt ion based on chitosan-graphene oxide decorated quantum dots-modified gold active layer. Optics Express, 2019, 27, 32294.	1.7	44
28	Label-free optical spectroscopy for characterizing binding properties of highly sensitive nanocrystalline cellulose-graphene oxide based nanocomposite towards nickel ion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 212, 25-31.	2.0	41
29	Fluorescence biosensor based on encapsulated quantum dots/enzymes/sol-gel for non-invasive detection of uric acid. Journal of Luminescence, 2018, 202, 309-315.	1.5	38
30	Biosensor based on glutamate dehydrogenase immobilized in chitosan for the determination of ammonium in water samples. Analytical Biochemistry, 2009, 388, 28-32.	1.1	37
31	Sandwich Electrochemical Immunosensor for Early Detection of Tuberculosis Based on Graphene/Polyaniline-Modified Screen-Printed Gold Electrode. Sensors, 2018, 18, 3926.	2.1	35
32	Voltammetric determination of hydroquinone, catechol, and resorcinol by using a glassy carbon electrode modified with electrochemically reduced graphene oxide-poly(Eriochrome black T) and gold nanoparticles. Mikrochimica Acta, 2019, 186, 261.	2.5	35
33	Reduced Graphene Oxide/TEMPO-Nanocellulose Nanohybrid-Based Electrochemical Biosensor for the Determination of <i>Mycobacterium tuberculosis</i>. Journal of Sensors, 2020, 2020, 1-11.	0.6	35
34	Electrochemical reduced graphene oxide-poly(eriochrome black T)/gold nanoparticles modified glassy carbon electrode for simultaneous determination of ascorbic acid, dopamine and uric acid. Arabian Journal of Chemistry, 2018, 11, 1301-1312.	2.3	34
35	Selective and simultaneous detection of cadmium, lead and copper by tapioca-derived carbon dotâ€"modified electrode. Environmental Science and Pollution Research, 2020, 27, 13315-13324.	2.7	33
36	Preparation and characterization of hexadecyltrimethylammonium bromide modified nanocrystalline cellulose/graphene oxide composite thin film and its potential in sensing copper ion using surface plasmon resonance technique. Optik, 2018, 173, 71-77.	1.4	31

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37	Development of a PrGO-Modified Electrode for Uric Acid Determination in the Presence of Ascorbic Acid by an Electrochemical Technique. Sensors, 2017, 17, 1539.	2.1	30
38	Detection of phenol by incorporation of gold modified-enzyme based graphene oxide thin film with surface plasmon resonance technique. Optics Express, 2020, 28, 9738.	1.7	30
39	Stacked films immobilization of MBTH in nafion/sol-gel silicate and horseradish peroxidase in chitosan for the determination of phenolic compounds. Analytical and Bioanalytical Chemistry, 2006, 386, 1285-1292.	1.9	29
40	Surface modifications to boost sensitivities of electrochemical biosensors using gold nanoparticles/silicon nanowires and response surface methodology approach. Journal of Materials Science, 2016, 51, 1083-1097.	1.7	29
41	Facile Hydrothermal and Solvothermal Synthesis and Characterization of Nitrogen-Doped Carbon Dots from Palm Kernel Shell Precursor. Applied Sciences (Switzerland), 2021, 11, 1630.	1.3	28
42	Sensitive detection of multiple pathogens using a single DNA probe. Biosensors and Bioelectronics, 2016, 86, 398-405.	5.3	27
43	Amperometric Biosensor Based on Zirconium Oxide/Polyethylene Glycol/Tyrosinase Composite Film for the Detection of Phenolic Compounds. Biosensors, 2016, 6, 31.	2.3	26
44	X-ray Photoelectron Spectroscopy Analysis of Chitosanâ€"Graphene Oxide-Based Composite Thin Films for Potential Optical Sensing Applications. Polymers, 2021, 13, 478.	2.0	26
45	Label Free Glucose Electrochemical Biosensor Based on Poly(3,4-ethylenedioxy thiophene):Polystyrene Sulfonate/Titanium Carbide/Graphene Quantum Dots. Biosensors, 2021, 11, 267.	2.3	25
46	Immuno Nanosensor for the Ultrasensitive Naked Eye Detection of Tuberculosis. Sensors, 2018, 18, 1932.	2.1	24
47	Surface Enhanced CdSe/ZnS QD/SiNP Electrochemical Immunosensor for the Detection of Mycobacterium Tuberculosis by Combination of CFP10-ESAT6 for Better Diagnostic Specificity. Materials, 2020, 13, 149.	1.3	24
48	Electrochemical Detection of Arsenite Using a Silica Nanoparticles-Modified Screen-Printed Carbon Electrode. Materials, 2020, 13, 3168.	1.3	24
49	Lateral Flow Immunoassay for Naked Eye Detection of <i>Mycobacterium tuberculosis</i>. Journal of Sensors, 2020, 2020, 1-10.	0.6	24
50	A Sensitive Impedimetric Aptasensor Based on Carbon Nanodots Modified Electrode for Detection of 17ÃŸ-Estradiol. Nanomaterials, 2020, 10, 1346.	1.9	23
51	Experimental evaluation on surface plasmon resonance sensor performance based on sensitive hyperbranched polymer nanocomposite thin films. Sensors and Actuators A: Physical, 2020, 303, 111830.	2.0	23
52	Structural and Optical Studies of Cadmium Sulfide Quantum Dot-Graphene Oxide-Chitosan Nanocomposite Thin Film as a Novel SPR Spectroscopy Active Layer. Journal of Nanomaterials, 2018, 2018, 1-8.	1.5	22
53	Drug Release Profiles of Mitomycin C Encapsulated Quantum Dotsâ€"Chitosan Nanocarrier System for the Possible Treatment of Non-Muscle Invasive Bladder Cancer. Pharmaceutics, 2021, 13, 1379.	2.0	21
54	Development of Electrochemical Sensor Based on Silica/Gold Nanoparticles Modified Electrode for Detection of Arsenite. IEEE Sensors Journal, 2020, 20, 3406-3414.	2.4	18

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55	Label-Free Dengue Detection Utilizing PNA/DNA Hybridization Based on the Aggregation Process of Unmodified Gold Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-5.	1.5	17
56	Structural, optical and sensing properties of CdS-NH2GO thin film as a dengue virus E-protein sensing material. Optik, 2018, 171, 934-940.	1.4	17
57	Nickel Nanoparticle-Modified Electrode for the Electrochemical Sensory Detection of Penicillin G in Bovine Milk Samples. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	17
58	Portable electrochemical immunosensor for detection of Mycobacterium tuberculosis secreted protein CFP10-ESAT6 in clinical sputum samples. Mikrochimica Acta, 2021, 188, 20.	2.5	17
59	Ultrasensitive Reduced Graphene Oxide-Poly(Procion)/Gold Nanoparticles Modified Glassy Carbon Electrode for Selective and Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. Journal of the Electrochemical Society, 2019, 166, B664-B672.	1.3	15
60	Thiolate-Capped CdSe/ZnS Core-Shell Quantum Dots for the Sensitive Detection of Glucose. Sensors, 2017, 17, 1537.	2.1	14
61	A fluorescence quenching based gene assay for Escherichia coli O157:H7 using graphene quantum dots and gold nanoparticles. Mikrochimica Acta, 2019, 186, 804.	2.5	14
62	Structural, optical and potential sensing properties of tyrosinase immobilized graphene oxide thin film on gold surface. Optik, 2020, 212, 164786.	1.4	14
63	Detection of Quinoline in G. boninense-Infected Plants Using Functionalized Multi-Walled Carbon Nanotubes: A Field Study. Sensors, 2017, 17, 1538.	2.1	13
64	Optical and structural properties of cadmium sulphide quantum dots based thin films as potential sensing material for dengue virus E-protein. Results in Physics, 2018, 11, 734-739.	2.0	13
65	Design and Optimization of Surface Plasmon Resonance Spectroscopy for Optical Constant Characterization and Potential Sensing Application: Theoretical and Experimental Approaches. Photonics, 2021, 8, 361.	0.9	13
66	An Optical Based Biosensor for the Determination of Ammonium in Aqueous Environment. American Journal of Analytical Chemistry, 2012, 03, 364-370.	0.3	13
67	Evaluation of Structural and Optical Properties of Graphene Oxide-Polyvinyl Alcohol Thin Film and Its Potential for Pesticide Detection Using an Optical Method. Photonics, 2022, 9, 300.	0.9	13
68	Study on the Spectrophotometric Detection of Free Fatty Acids in Palm Oil Utilizing Enzymatic Reactions. Molecules, 2015, 20, 12328-12340.	1.7	12
69	X-ray photoelectron study on gold/nanocrystalline cellulose-graphene oxide thin film as surface plasmon resonance active layer for metal ion detection. Thin Solid Films, 2020, 713, 138340.	0.8	12
70	Cauliflowerâ€like poly(3,4â€ethylenedioxythipohene)/nanocrystalline cellulose/manganese oxide ternary nanocomposite for supercapacitor. Journal of Applied Polymer Science, 2020, 137, 49162.	1.3	12
71	Electrochemical sensory detection of Sus scrofa mtDNA for food adulteration using hybrid ferrocenylnaphthalene diimide intercalator as a hybridization indicator. RSC Advances, 2020, 10, 27336-27345.	1.7	11
72	A Novel Amperometric Aptamerâ€"Antibody Sandwich Assay for the Detection of Tuberculosis With Diazonium Electrografted Enhanced Modified Electrode. IEEE Sensors Journal, 2021, 21, 22442-22449.	2.4	11

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73	Aptasensor for the Detection of Mycobacterium tuberculosis in Sputum Utilising CFP10-ESAT6 Protein as a Selective Biomarker. Nanomaterials, 2021, 11, 2446.	1.9	10
74	A sensing approach for manganese ion detection by carbon dots nanocomposite thin film-based surface plasmon resonance sensor. Optik, 2021, 243, 167435.	1.4	10
75	Preparation and characterization of amine functionalized graphene oxide with water soluble quantum dots for sensing material. AIP Conference Proceedings, 2017, , .	0.3	9
76	Histological analysis of anti-cancer drug loaded, targeted Mn:ZnS quantum dots in metastatic lesions of 4T1 challenged mice. Journal of Materials Science: Materials in Medicine, 2017, 28, 138.	1.7	8
77	Enhanced electrochemical sensing of secondary metabolites in oil palms for early detection of Ganoderma boninense based on novel nanoparticle-chitosan functionalized multi-walled carbon nanotube platform. Sensing and Bio-Sensing Research, 2019, 23, 100274.	2.2	8
78	DNA Electrochemical Biosensor Based on Iron Oxide/Nanocellulose Crystalline Composite Modified Screen-Printed Carbon Electrode for Detection of Mycobacterium tuberculosis. Molecules, 2020, 25, 3373.	1.7	8
79	Evaluation of an optical phenolic biosensor signal employing artificial neural networks. Sensors and Actuators B: Chemical, 2008, 134, 959-965.	4.0	7
80	Electrochemical Determination of 3-Nitrophenol with a Reduced Graphene Oxide Modified Screen Printed Carbon Electrode. Sensor Letters, 2017, 15, 187-195.	0.4	7
81	Electrochemical Behavior and Detection of Diclofenac at a Microporous Si3N4 Membrane Modified Waterâ€"1,6-dichlorohexane Interface System. Chemosensors, 2020, 8, 11.	1.8	7
82	An Optical Sensor for Dengue Envelope Proteins Using Polyamidoamine Dendrimer Biopolymer-Based Nanocomposite Thin Film: Enhanced Sensitivity, Selectivity, and Recovery Studies. Polymers, 2021, 13, 762.	2.0	7
83	IMMOBILIZATION OF TYROSINASE IN NANOCRYSTALLINE CELLULOSE/CHITOSAN COMPOSITE FILM FOR AMPEROMETRIC DETECTION OF PHENOL. Malaysian Journal of Analytical Sciences, 2016, 20, 978-985.	0.2	7
84	Quantitative measurement of amoxicillin in Ibuprofen tablets using UPLC. Measurement: Journal of the International Measurement Confederation, 2016, 93, 465-472.	2.5	6
85	A carbon dots based fluorescence sensing for the determination of Escherichia coli O157:H7. Measurement: Journal of the International Measurement Confederation, 2020, 160, 107845.	2.5	6
86	Cellulose and Vanadium Plasmonic Sensor to Measure Ni2+ Ions. Applied Sciences (Switzerland), 2021, 11, 2963.	1.3	6
87	Reduced Graphene Oxide/Gold Nanoparticles Modified Screen-Printed Electrode for the Determination of Palmitic Acid. Journal of Sensors, 2021, 2021, 1-14.	0.6	6
88	Poly(hydroxyl ethyl methacrylate) hydrogel matrix for phenol biosensor. , 0, , .		5
89	Fluorescence-based immunoassay for the detection of Xanthomonas oryzae pv. oryzae in rice leaf. Analytical Biochemistry, 2020, 610, 113876.	1.1	5
90	Enhanced Electrochemical Conductivity of Surface-Coated Gold Nanoparticles/Copper Nanowires onto Screen-Printed Gold Electrode. Coatings, 2022, 12, 622.	1.2	5

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91	Synthesis and Surface Modification of Biocompatible Water Soluble Core-Shell Quantum Dots. Advanced Materials Research, 2014, 879, 184-190.	0.3	4
92	Characterization of Polylactide-Stabilized Gold Nanoparticles and Its Application in the Fabrication of Electrochemical DNA Biosensors. Journal of the Brazilian Chemical Society, 2016, , .	0.6	4
93	Decoration of carbon nanotubes with gold nanoparticles by electroless deposition process using ethylenediamine as a cross linker. Journal of Materials Research, 2016, 31, 2897-2905.	1.2	4
94	Fabrication of Titania Nanotube and Its Application for Palmitic Acid Determination by Electrochemical Technique. Sensor Letters, 2018, 16, 729-736.	0.4	3
95	Voltammetric determination of iodide in iodized table salt using cetyltrimethylammonium bromide as ion-pairing. Journal of Food Science and Technology, 2019, 56, 3846-3853.	1.4	3
96	Strategies for the preparation of non-amplified and amplified genomic dengue gene samples for electrochemical DNA biosensing applications. RSC Advances, 2021, 12, 1-10.	1.7	3
97	Patterned Array of Poly(ethylene glycol) Silane Monolayer for Label-Free Detection of Dengue. Sensors, 2016, 16, 1365.	2.1	2
98	Nanosensors Based Detection of Foodborne Pathogens. , 2019, , 377-422.		2
99	Electrochemical Detection of a Local Anesthetic Dibucaine at Arrays of Liquid|Liquid MicroInterfaces. Chemosensors, 2021, 9, 15.	1.8	2
100	Electrooxidative Polymerization of Methylene Blue on Screen Printed Carbon Paste Electrode and Its Application in NADH Determination. Sensor Letters, 2011, 9, 1592-1597.	0.4	2
101	Label-free Binding Analysis of 4-(2-Pyridylazo)-resorcinol-based Composite Layer with Cobalt Ion Using Surface Plasmon Resonance Optical Sensor. Sensors and Materials, 2020, 32, 2877.	0.3	2
102	Laccase Electrochemical Biosensor Based on Graphene-Gold/Chitosan Nanocomposite Film for Bisphenol A Detection. Current Analytical Chemistry, 2020, 16, 570-579.	0.6	2
103	Fabrication of an Optical Biosensor Based on Immobilized MBTH and Tyrosinase for Determination of Phenolic Compounds. , 0, , .		1
104	Electrochemical Techniques-Based approaches for Mycobacterium Tuberculosis Detection: Last Decade Review. IOP Conference Series: Materials Science and Engineering, 2019, 705, 012019.	0.3	1
105	An Approach of Zirconium Oxide/Polyethylene Glycol Nanocomposite Film on Screen Printed Carbon Electrode and Its Application in Glucose Determination. Sensor Letters, 2014, 12, 1590-1596.	0.4	1
106	The Use of Artificial Neural Network for an Optical Phenol BiosensingBased on Tyrosinase Entrapped in Chitosan Film. Sensor Letters, 2006, 4, 235-240.	0.4	1
107	Enhancement of Electrochemical Properties Using Iron Oxide-Gold Nanocomposite for Tuberculosis Detection Based on rGO-APTES Modified Screen-Printed Electrode. IEEE Sensors Journal, 2021, 21, 7233-7241.	2.4	1
108	A Novel Base Catalyzed Esterification Reaction for Spectrophotometric Determination of Free Fatty Acid in Crude Palm Oil. Asian Journal of Chemistry, 2017, 29, 723-727.	0.1	0

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109	Voltammetric determination of palmitic acid by electrode modified with reduced graphene oxide. Journal of Food Science and Technology, 2022, 59, 1053-1062.	1.4	0
110	New modified mesoporous silica nanoparticles with bimetallic Ni-Zr for electroanalytical detection of dopamine. Journal of Electrochemical Science and Engineering, 0, , .	1.6	0
111	Enhanced electrochemical detection of iodide at a reduced graphene oxide–modified carbon electrode in iodized salts. Food Chemistry, 2022, 393, 133382.	4.2	0