

Minhaz Uddin Ahmed

List of Publications by Year in descending order

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82
papers

3,069
citations

147566
31
h-index

161609
54
g-index

82
all docs

82
docs citations

82
times ranked

3460
citing authors

#	ARTICLE	IF	CITATIONS
1	Personalized diagnostics and biosensors: a review of the biology and technology needed for personalized medicine. <i>Critical Reviews in Biotechnology</i> , 2014, 34, 180-196.	5.1	174
2	Electrochemical immunosensors and their recent nanomaterial-based signal amplification strategies: a review. <i>RSC Advances</i> , 2016, 6, 24995-25014.	1.7	160
3	AuNPs/CNOs/SWCNTs/chitosan-nanocomposite modified electrochemical sensor for the label-free detection of carcinoembryonic antigen. <i>Biosensors and Bioelectronics</i> , 2018, 107, 211-217.	5.3	149
4	Electrochemical Biosensors for Medical and Food Applications. <i>Electroanalysis</i> , 2008, 20, 616-626.	1.5	143
5	Emerging Loop-Mediated Isothermal Amplification-Based Microchip and Microdevice Technologies for Nucleic Acid Detection. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 278-294.	2.6	141
6	Bacteria Screening, Viability, And Confirmation Assays Using Bacteriophage-Impedimetric/Loop-Mediated Isothermal Amplification Dual-Response Biosensors. <i>Analytical Chemistry</i> , 2013, 85, 4893-4901.	3.2	117
7	A bacteriophage endolysin-based electrochemical impedance biosensor for the rapid detection of <i>Listeria</i> cells. <i>Analyst, The</i> , 2012, 137, 5749.	1.7	114
8	Microfluidic electrochemical assay for rapid detection and quantification of <i>Escherichia coli</i> . <i>Biosensors and Bioelectronics</i> , 2012, 31, 523-528.	5.3	110
9	Meat species identification based on the loop mediated isothermal amplification and electrochemical DNA sensor. <i>Food Control</i> , 2010, 21, 599-605.	2.8	104
10	Toward the development of smart and low cost point-of-care biosensors based on screen printed electrodes. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 1-11.	5.1	101
11	Real-time electrochemical detection of pathogen DNA using electrostatic interaction of a redox probe. <i>Analyst, The</i> , 2013, 138, 907-915.	1.7	93
12	A simple cassette as point-of-care diagnostic device for naked-eye colorimetric bacteria detection. <i>Analyst, The</i> , 2014, 139, 482-487.	1.7	92
13	Trends and Advances in Electrochemiluminescence Nanobiosensors. <i>Sensors</i> , 2018, 18, 166.	2.1	85
14	Colorimetric Nucleic Acid Detection on Paper Microchip Using Loop Mediated Isothermal Amplification and Crystal Violet Dye. <i>ACS Sensors</i> , 2017, 2, 1713-1720.	4.0	79
15	Trends in Paper-based Electrochemical Biosensors: From Design to Application. <i>Analytical Sciences</i> , 2018, 34, 7-18.	0.8	79
16	From market to food plate: Current trusted technology and innovations in halal food analysis. <i>Trends in Food Science and Technology</i> , 2016, 58, 55-68.	7.8	75
17	Electrochemical genosensor for the rapid detection of GMO using loop-mediated isothermal amplification. <i>Analyst, The</i> , 2009, 134, 966.	1.7	71
18	High-throughput real-time electrochemical monitoring of LAMP for pathogenic bacteria detection. <i>Biosensors and Bioelectronics</i> , 2014, 58, 101-106.	5.3	66

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19	Electrochemical DNA biosensor using a disposable electrochemical printed (DEP) chip for the detection of SNPs from unpurified PCR amplicons. <i>Analyst, The</i> , 2007, 132, 431.	1.7	63
20	A highly sensitive gold nanoparticle bioprobe based electrochemical immunosensor using screen printed graphene biochip. <i>RSC Advances</i> , 2014, 4, 58460-58466.	1.7	62
21	Recent developments in colorimetric immunoassays using nanozymes and plasmonic nanoparticles. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 50-66.	5.1	62
22	Trends and advances in food analysis by real-time polymerase chain reaction. <i>Journal of Food Science and Technology</i> , 2016, 53, 2196-2209.	1.4	61
23	A label free electrochemical immunosensor for sensitive detection of porcine serum albumin as a marker for pork adulteration in raw meat. <i>Food Chemistry</i> , 2016, 206, 197-203.	4.2	59
24	A novel, sensitive and label-free loop-mediated isothermal amplification detection method for nucleic acids using luminophore dyes. <i>Biosensors and Bioelectronics</i> , 2016, 86, 346-352.	5.3	54
25	A carbon nanofiber-based label free immunosensor for high sensitive detection of recombinant bovine somatotropin. <i>Biosensors and Bioelectronics</i> , 2015, 70, 48-53.	5.3	45
26	Meat species identification using DNA-redox electrostatic interactions and non-specific adsorption on graphene biochips. <i>Food Control</i> , 2016, 61, 70-78.	2.8	40
27	A Simple DNA-based Electrochemical Biosensor for Highly Sensitive Detection of Ciprofloxacin Using Disposable Graphene. <i>Analytical Sciences</i> , 2016, 32, 687-693.	0.8	35
28	Meat species identification using DNA-luminol interaction and their slow diffusion onto the biochip surface. <i>Food Chemistry</i> , 2018, 248, 29-36.	4.2	35
29	Combining a gold nanoparticle-polyethylene glycol nanocomposite and carbon nanofiber electrodes to develop a highly sensitive salivary secretory immunoglobulin A immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 557-563.	4.0	34
30	Gold-microrods/Pd-nanoparticles/polyaniline-nanocomposite-interface as a peroxidase-mimic for sensitive detection of tropomyosin. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112108.	5.3	34
31	Paper-based rapid detection of pork and chicken using LAMP magnetic bead aggregates. <i>Analytical Methods</i> , 2016, 8, 2391-2399.	1.3	33
32	A highly sensitive and label-free electrochemiluminescence immunosensor for beta 2-microglobulin. <i>Analytical Methods</i> , 2017, 9, 2570-2577.	1.3	32
33	Current progresses and trends in carbon nanomaterials based electrochemical and electrochemiluminescence biosensors. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 937-960.	0.8	32
34	Recent developments towards portable point-of-care diagnostic devices for pathogen detection. <i>Sensors & Diagnostics</i> , 2022, 1, 87-105.	1.9	31
35	A highly sensitive electrochemical detection of human chorionic gonadotropin on a carbon nano-onions/gold nanoparticles/polyethylene glycol nanocomposite modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 462-470.	1.9	29
36	Development of fast and sensitive real-time qPCR assay based on a novel probe for detection of porcine DNA in food sample. <i>LWT - Food Science and Technology</i> , 2017, 84, 686-692.	2.5	25

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37	Nanomaterials as signal amplification elements in aptamer-based electrochemiluminescent biosensors. <i>Bioelectrochemistry</i> , 2022, 147, 108170.	2.4	20
38	Enzyme-free Gold-silver Core-shell Nanozyme Immunosensor for the Detection of Haptoglobin. <i>Analytical Sciences</i> , 2018, 34, 1257-1263.	0.8	18
39	An ultra-sensitive label-free electrochemiluminescence CKMB immunosensor using a novel nanocomposite-modified printed electrode. <i>RSC Advances</i> , 2019, 9, 34283-34292.	1.7	18
40	Recent trends in nanomaterial-based signal amplification in electrochemical aptasensors. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 794-812.	5.1	18
41	Recent Trends in Design and Development of Nanomaterial-based Aptasensors. <i>Biointerface Research in Applied Chemistry</i> , 2021, 11, 14057-14077.	1.0	17
42	Label-free Electrochemical Detection for Food Allergen using Screen Printed Carbon Electrode. <i>Electrochemistry</i> , 2008, 76, 606-609.	0.6	15
43	A Highly Sensitive Label-free Aptasensor Based on Gold Nanourchins and Carbon Nanohorns for the Detection of Lipocalin-2 (LCN-2). <i>Analytical Sciences</i> , 2021, 37, 825-831.	0.8	14
44	Fabrication of label-free electrochemical food biosensor for the sensitive detection of ovalbumin on nanocomposite-modified graphene electrode. <i>Biointerface Research in Applied Chemistry</i> , 2019, 9, 4655-4662.	1.0	14
45	A flexible and low-cost polypropylene pouch for naked-eye detection of herpes simplex viruses. <i>Analyst</i> , The, 2015, 140, 931-937.	1.7	13
46	Electrochemiluminescence immunosensor for tropomyosin using carbon nanohorns/Nafion/Fe ₃ O ₄ @Pd screen-printed electrodes. <i>Mikrochimica Acta</i> , 2020, 187, 456.	2.5	13
47	The role of copper nanoparticles decorating polydopamine/graphene film as catalyst in the enhancement of uric acid sensing. <i>Journal of Electroanalytical Chemistry</i> , 2021, 893, 115322.	1.9	12
48	Trends in the development of immunoassays for mycotoxins and food allergens using gold and carbon nanostructured material. , 2022, 1, 100069.		12
49	Electrochemical Detection of Î²-lactoglobulin Allergen Using Titanium Dioxide/Carbon Nanochips/Gold Nanocomposite-based Biosensor. <i>Electroanalysis</i> , 2022, 34, 684-691.	1.5	11
50	A solid-state electrochemiluminescence aptasensor for Î²-lactoglobulin using Ru-AuNP/GNP/Naf nanocomposite-modified printed sensor. <i>Mikrochimica Acta</i> , 2022, 189, 165.	2.5	11
51	Microfluidic biosensors for high throughput screening of pathogens in food. , 2015, , 327-357.		10
52	Electrochemiluminescence study of AuNPs/CdTe-QDs/SWCNTs/chitosan nanocomposite modified carbon nanofiber screen-printed electrode with [Ru(bpy) ₃] ²⁺ /TPrA. <i>Inorganic Chemistry Communication</i> , 2019, 106, 54-60.	1.8	10
53	Introduction to Food Biosensors. <i>Food Chemistry, Function and Analysis</i> , 2016, , 1-21.	0.1	10
54	Recent trends and developments of PCR-based methods for the detection of food-borne Salmonella bacteria and Norovirus. <i>Journal of Food Science and Technology</i> , 2022, 59, 4570-4582.	1.4	10

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55	HLA- α , β and DRB1 allele frequencies in the Bangladeshi population. <i>Tissue Antigens</i> , 2008, 72, 115-119.	1.0	9
56	A Label-free Cardiac Troponin T Electrochemiluminescence Immunosensor Enhanced by Graphene Nanoplatelets. <i>Analytical Sciences</i> , 2019, 35, 973-978.	0.8	9
57	Efficient double electrochemiluminescence quenching based label-free highly sensitive detection of haptoglobin on a novel nanocomposite modified carbon nanofibers interface. <i>Sensing and Bio-Sensing Research</i> , 2019, 24, 100284.	2.2	9
58	Graphene Nanoplatelets/Chitosan-Modified Electrochemical Immunosensor for the Label-Free Detection of Haptoglobin. <i>IEEE Sensors Journal</i> , 2021, 21, 4176-4183.	2.4	9
59	Electrochemiluminescence nanoimmunosensor for CD63 protein using a carbon nanochips/iron oxide/nafion-nanocomposite modified mesoporous carbon interface. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 170, 108755.	2.5	8
60	Colorimetric assay for urinary track infection disease diagnostic on flexible substrate. , 2012, , .		6
61	Fast and Sensitive Real-time PCR-based Detection of Porcine DNA in Food Samples by Using EvaGreen Dye. <i>Food Science and Technology Research</i> , 2018, 24, 803-810.	0.3	6
62	Graphene Nanoplatelets-Based Aptamer Biochip for the Detection of Lipocalin-2. <i>IEEE Sensors Journal</i> , 2019, 19, 9592-9599.	2.4	6
63	Single Wall Carbon Nanotube and Magnetic Bead Based Electrochemical Immunosensor for Sensitive Detection of Salivary Secretory Immunoglobulin A. <i>Current Analytical Chemistry</i> , 2018, 14, 399-405.	0.6	6
64	Rapid detection of pork DNA in food samples using reusable electrochemical sensor. <i>Scientia Bruneiana</i> , 0, 15, .	0.1	5
65	Construction of branched DNA for SNP determination on glass-chip using photochemical ligation. <i>Biochip Journal</i> , 2011, 5, 206-213.	2.5	4
66	CHAPTER 16. Isothermal DNA Amplification Strategies for Food Biosensors. <i>Food Chemistry, Function and Analysis</i> , 2016, , 367-392.	0.1	4
67	Novel nanocomposite of spiky-shaped gold nanourchins/ titanium dioxide/nafion for amplified signal and efficient electrochemiluminescence detection of ovomucoid. <i>Bioelectrochemistry</i> , 2022, 147, 108172.	2.4	4
68	Nanobioremediation: Ecofriendly Application of Nanomaterials. , 2019, , 3523-3535.		3
69	Electrochemical Study of Dimensional Specific Carbon Nanomaterials Modified Glassy Carbon Electrode for Highly Sensitive Label-free Detection of Immunoglobulin A. <i>Current Analytical Chemistry</i> , 2020, 16, 833-842.	0.6	3
70	An Eva Green Real-Time PCR Assay for Porcine DNA Analysis in Raw and Processed Foods. <i>Malaysian Journal of Halal Research</i> , 2022, 5, 33-39.	0.3	3
71	Nanobioremediation: Ecofriendly Application of Nanomaterials. , 2018, , 1-13.		2
72	Graphene Nanoplatelets-Based Aptamer Biochip for the Detection of Lipocalin-2. , 2018, , .		2

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73	Carbon Nanomaterials for Electrochemiluminescence-Based Immunosensors: Recent Advances and Applications. , 2020, , 71-90.		2
74	Point-of-Care Devices. , 2013, , 372-380.		1
75	A new mathematical model for equivalent salt deposit density and chemical anions and cations of busbar insulators. Electrical Engineering, 2018, 100, 1277-1285.	1.2	1
76	Nanobioremediation: Ecofriendly Application of Nanomaterials. , 2018, , 1-14.		1
77	Apolipoprotein E (Apo E) Gene Polymorphism in the Bangladeshi Population and its Comparison with Other Asian Populations. Journal of Medical Sciences (Faisalabad, Pakistan), 2006, 6, 203-208.	0.0	1
78	Characterization of immobilized DNA on sulfur-passivated InAs surfaces. Materials Research Society Symposia Proceedings, 2011, 1301, 259.	0.1	0
79	High throughput low cost electrochemical device for S.aureus bacteria detection. , 2013, , .		0
80	CHAPTER 5. Bionanotechnology-Based Colorimetric Sensors for Food Analysis. Food Chemistry, Function and Analysis, 2016, , 104-130.	0.1	0
81	Nanotechnology For Sensitive Detection Of The Carcinoembryonic Antigen: A Cancer Biomarker. , 2018, , .		0
82	Electrochemical nano-aptasensor as potential diagnostic device for thrombin. , 2022, , 105-141.		0