Javed H Niazi

List of Publications by Year
in descending order

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59 papers	2,358 citations	257101 24 h-index	205818 48 g-index
60 all docs	60 docs citations	60 times ranked	3381 citing authors

#	Article	IF	Citations
1	Biosensors for cardiac biomarkers detection: A review. Sensors and Actuators B: Chemical, 2012, 171-172, 62-76.	4.0	308
2	Electrochemical aptasensor for tetracycline detection. Bioprocess and Biosystems Engineering, 2010, 33, 31-37.	1.7	154
3	ssDNA Aptamer-Based Surface Plasmon Resonance Biosensor for the Detection of Retinol Binding Protein 4 for the Early Diagnosis of Type 2 Diabetes. Analytical Chemistry, 2008, 80, 2867-2873.	3.2	148
4	Single-stranded DNA aptamers specific for antibiotics tetracyclines. Bioorganic and Medicinal Chemistry, 2008, 16, 7245-7253.	1.4	141
5	Graphene-interfaced electrical biosensor for label-free and sensitive detection of foodborne pathogenic E. coli O157:H7. Biosensors and Bioelectronics, 2017, 91, 225-231.	5.3	129
6	ssDNA aptamers that selectively bind oxytetracycline. Bioorganic and Medicinal Chemistry, 2008, 16, 1254-1261.	1.4	115
7	Label-free capacitive biosensor for sensitive detection of multiple biomarkers using gold interdigitated capacitor arrays. Biosensors and Bioelectronics, 2010, 25, 2318-2323.	5.3	111
8	Specific detection of oxytetracycline using DNA aptamer-immobilized interdigitated array electrode chip. Analytica Chimica Acta, 2009, 634, 250-254.	2.6	109
9	Initial degradation of dimethylphthalate by esterases fromBacillusspecies. FEMS Microbiology Letters, 2001, 196, 201-205.	0.7	94
10	Label-free capacitance based aptasensor platform for the detection of HER2/ErbB2 cancer biomarker in serum. Sensors and Actuators B: Chemical, 2015, 220, 1145-1151.	4.0	87
11	Label-free RNA aptamer-based capacitive biosensor for the detection of C-reactive protein. Physical Chemistry Chemical Physics, 2010, 12, 9176.	1.3	70
12	Capacitive aptamerâ€“antibody based sandwich assay for the detection of VEGF cancer biomarker in serum. Sensors and Actuators B: Chemical, 2015, 209, 645-651.	4.0	70
13	Iron oxide nanoparticles based magnetic luminescent quantum dots (MQDs) synthesis and biomedical/biological applications: A review. Materials Science and Engineering C, 2021, 118, 111545.	3.8	61
14	In vitro HER2 protein-induced affinity dissociation of carbon nanotube-wrapped anti-HER2 aptamers for HER2 protein detection. Analyst, The, 2015, 140, 243-249.	1.7	60
15	Role of p53 circuitry in tumorigenesis: A brief review. European Journal of Medicinal Chemistry, 2018, 158, 7-24.	2.6	52
16	Global Gene Response in Saccharomyces cerevisiae Exposed to Silver Nanoparticles. Applied Biochemistry and Biotechnology, 2011, 164, 1278-1291.	1.4	47
17	Biotransformation of multi-walled carbon nanotubes mediated by nanomaterial resistant soil bacteria. Chemical Engineering Journal, 2016, 298, 1-9.	6.6	42
18	ssDNA aptamers that recognize diclofenac and 2-anilinophenylacetic acid. Bioorganic and Medicinal Chemistry, 2009, 17, 5380-5387.	1.4	40

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19	Rapid and sensitive detection of Nampt (PBEF/visfatin) in human serum using an ssDNA aptamer-based capacitive biosensor. Biosensors and Bioelectronics, 2012, 38, 233-238.	5.3	37
20	An aptamer based competition assay for protein detection using CNT activated gold-interdigitated capacitor arrays. Biosensors and Bioelectronics, 2012, 34, 165-170.	5.3	37
21	Toxicity of Metallic Nanoparticles in Microorganisms- a Review. , 2009, , 193-206.		34
22	Graphene and carbon nanotubes interfaced electrochemical nanobiosensors for the detection of SARS-CoV-2 (COVID-19) and other respiratory viral infections: A review. Materials Science and Engineering C, 2021, 129, 112356.	3.8	34
23	Prediction and classification of the modes of genotoxic actions using bacterial biosensors specific for DNA damages. Biosensors and Bioelectronics, 2009, 25, 767-772.	5.3	32
24	Biosensors for detecting viral and bacterial infections using host biomarkers: a review. Analyst, The, 2020, 145, 7825-7848.	1.7	31
25	A novel bioluminescent bacterial biosensor using the highly specific oxidative stress-inducible pgi gene. Biosensors and Bioelectronics, 2008, 24, 670-675.	5.3	29
26	<scp>l</scp>-Cysteine-Mediated Self-Assembled Agâ€“Au Nanoparticles As Fractal Patterns with Bowling-Alley-like Hollow Arrays for Electrochemical Sensing of Dopamine. Industrial & Engineering Chemistry Research, 2019, 58, 8035-8043.	1.8	25
27	A new microfluidics system with a hand-operated, on-chip actuator for immunosensor applications. Sensors and Actuators B: Chemical, 2012, 163, 194-201.	4.0	21
28	Whole-cell based label-free capacitive biosensor for rapid nanosize-dependent toxicity detection. Biosensors and Bioelectronics, 2015, 67, 100-106.	5.3	18
29	CdSe/CdS/ZnS nanocrystals decorated with Fe3O4 nanoparticles for point-of-care optomagnetic detection of cancer biomarker in serum. Sensors and Actuators B: Chemical, 2020, 321, 128431.	4.0	17
30	Revealing the molecular interactions of aptamers that specifically bind to the extracellular domain of HER2 cancer biomarker protein: An in silico assessment. Journal of Molecular Graphics and Modelling, 2018, 83, 112-121.	1.3	16
31	Nanomaterial resistant microorganism mediated reduction of graphene oxide. Colloids and Surfaces B: Biointerfaces, 2016, 146, 39-46.	2.5	15
32	DEGRADATION OF DIMETHYLPHTHALATE BY CELLS OFBACILLUSSP. IMMOBILIZED IN CALCIUM ALGINATE AND POLYURETHANE FOAM. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 1135-1144.	0.9	14
33	Label-free detection of cardiac biomarker using aptamer based capacitive biosensor. Procedia Engineering, 2010, 5, 828-830.	1.2	14
34	A Hand-Held Point-of-Care Biosensor Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers Using Interdigitated Capacitive Arrays. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 1440-1449.	2.7	14
35	Role of quaternary ammonium compound immobilized metallic graphene oxide in PMMA/PEG membrane for antibacterial, antifouling and selective gas permeability properties. Polymer Bulletin, 2018, 75, 5695-5712.	1.7	14
36	Characterization of superoxide-stress sensing recombinant Escherichia coli constructed using promoters for genes zwf and fpr fused to lux operon. Applied Microbiology and Biotechnology, 2007, 74, 1276-1283.	1.7	13

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37	Aptamersâ€inâ€Liposomes for Selective and Multiplexed Capture of Small Organic Compounds. Macromolecular Rapid Communications, 2011, 32, 1169-1173.	2.0	11
38	Zn phthalocyanine conjugation to H2-ul aptamer for HER2-targeted breast cancer photodynamic therapy: Design, optimization and properties. Journal of Porphyrins and Phthalocyanines, 2017, 21, 887-892.	0.4	11
39	Toxicity evaluation of e-juice and its soluble aerosols generated by electronic cigarettes using recombinant bioluminescent bacteria responsive to specific cellular damages. Biosensors and Bioelectronics, 2017, 90, 53-60.	5.3	10
40	S. cerevisiae whole-cell based capacitive biochip for the detection of toxicity of different forms of carbon nanotubes. Sensors and Actuators B: Chemical, 2015, 218, 253-260.	4.0	9
41	Carbon nanotube decorated magnetic microspheres as an affinity matrix for biomolecules. Journal of Materials Chemistry B, 2013, 1, 1894.	2.9	8
42	Gold nanoparticles based sensor for in vitro analysis of drug-drug interactions using imipramine and isoniazid drugs: A proof of concept approach. Sensors and Actuators B: Chemical, 2017, 252, 1055-1062.	4.0	8
43	Chemical toxicity detection using quantum dot encoded E. coli cells. Sensors and Actuators B: Chemical, 2014, 196, 381-387.	4.0	7
44	Probing chemical induced cellular stress by non-Faradaic electrochemical impedance spectroscopy using an Escherichia coli capacitive biochip. Analyst, The, 2011, 136, 2726.	1.7	6
45	E. coliâ€“quantum dot bioconjugates as whole-cell fluorescent reporters for probing cellular damage. Journal of Materials Chemistry B, 2013, 1, 2724.	2.9	6
46	Quantum dot conjugated S. cerevisiae as smart nanotoxicity indicators for screening the toxicity of nanomaterials. Journal of Materials Chemistry B, 2014, 2, 3618-3625.	2.9	6
47	Development of Hand-Held Point-of-Care Diagnostic Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers. , 2018, , .		5
48	Design, fabrication and performance evaluation of interdigital capacitive sensor for detection of Cardiac Troponin-I and Human Epidermal Growth Factor Receptor 2. , 2015, , .		3
49	Determining the fate of fluorescent quantum dots on surface of engineered budding S. cerevisiae cell molecular landscape. Biosensors and Bioelectronics, 2015, 69, 26-33.	5.3	3
50	Cells-on-chip based transducer platform for probing toxicity of metal nanoparticles. Sensors and Actuators B: Chemical, 2016, 231, 659-665.	4.0	3
51	Probing synergistic toxicity effects on living cells by combination of two different sized nanoparticles by a wholeâ€“cell based biochip. Materials Today: Proceedings, 2017, 4, 8427-8431.	0.9	2
52	Development of an immunoblot assay for carcinoembryonic antigen (CEA) in human serum using a portable UV illuminator. Analytical Methods, 2018, 10, 947-949.	1.3	2
53	Label-Free Capacitive E. coli Biochip for Determining Chemicals that Induce Cellular Toxicity. Procedia Engineering, 2011, 25, 928-931.	1.2	1
54	VEGF Cancer Biomarker Protein Detection in Real Human Serum Using Capacitive Labelâ€Free Aptasensor. Macromolecular Symposia, 2015, 357, 74-78.	0.4	1

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55	Capacitive Biosensor for Nanotoxicity Detection. Procedia Engineering, 2012, 47, 1331-1333.	1.2	0
56	Electronic Transducing Chip Platforms for Biosensing Applications. Macromolecular Symposia, 2015, 357, 109-115.	0.4	0
57	Inducing structural defects in multi-walled carbon nanotubes by biological oxidation. Materials Today: Proceedings, 2017, 4, 8788-8791.	0.9	0
58	Modifications in physiochemical property of engineered graphene oxide by nanomaterials resistant bacteria. Materials Today: Proceedings, 2017, 4, 8792-8795.	0.9	0
59	Quantum Dots Conjugated E. coli Living Cells as Fluorescent Reporters to Detect Cytotoxicity of Chemicals. , 2014, , 471-475.		0