

# Javed H Niazi

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Iron oxide nanoparticles based magnetic luminescent quantum dots (MQDs) synthesis and biomedical/biological applications: A review. <i>Materials Science and Engineering C</i> , 2021, 118, 111545.	3.8	61
2	Graphene and carbon nanotubes interfaced electrochemical nanobiosensors for the detection of SARS-CoV-2 (COVID-19) and other respiratory viral infections: A review. <i>Materials Science and Engineering C</i> , 2021, 129, 112356.	3.8	34
3	Biosensors for detecting viral and bacterial infections using host biomarkers: a review. <i>Analyst</i> , The, 2020, 145, 7825-7848.	1.7	31
4	CdSe/CdS/ZnS nanocrystals decorated with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for point-of-care optomagnetic detection of cancer biomarker in serum. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128431.	4.0	17
5	<scp>l</scp>-Cysteine-Mediated Self-Assembled Ag@Au Nanoparticles As Fractal Patterns with Bowling-Alley-like Hollow Arrays for Electrochemical Sensing of Dopamine. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 8035-8043.	1.8	25
6	Development of an immunoblot assay for carcinoembryonic antigen (CEA) in human serum using a portable UV illuminator. <i>Analytical Methods</i> , 2018, 10, 947-949.	1.3	2
7	A Hand-Held Point-of-Care Biosensor Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers Using Interdigitated Capacitive Arrays. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1440-1449.	2.7	14
8	Role of p53 circuitry in tumorigenesis: A brief review. <i>European Journal of Medicinal Chemistry</i> , 2018, 158, 7-24.	2.6	52
9	Role of quaternary ammonium compound immobilized metallic graphene oxide in PMMA/PEG membrane for antibacterial, antifouling and selective gas permeability properties. <i>Polymer Bulletin</i> , 2018, 75, 5695-5712.	1.7	14
10	Development of Hand-Held Point-of-Care Diagnostic Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers. , 2018, , .		5
11	Revealing the molecular interactions of aptamers that specifically bind to the extracellular domain of HER2 cancer biomarker protein: An in silico assessment. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 83, 112-121.	1.3	16
12	Gold nanoparticles based sensor for in vitro analysis of drug-drug interactions using imipramine and isoniazid drugs: A proof of concept approach. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 1055-1062.	4.0	8
13	Graphene-interfaced electrical biosensor for label-free and sensitive detection of foodborne pathogenic <i>E. coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2017, 91, 225-231.	5.3	129
14	Inducing structural defects in multi-walled carbon nanotubes by biological oxidation. <i>Materials Today: Proceedings</i> , 2017, 4, 8788-8791.	0.9	0
15	Toxicity evaluation of e-juice and its soluble aerosols generated by electronic cigarettes using recombinant bioluminescent bacteria responsive to specific cellular damages. <i>Biosensors and Bioelectronics</i> , 2017, 90, 53-60.	5.3	10
16	Zn phthalocyanine conjugation to H <sub>2</sub> -ul aptamer for HER2-targeted breast cancer photodynamic therapy: Design, optimization and properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017, 21, 887-892.	0.4	11
17	Probing synergistic toxicity effects on living cells by combination of two different sized nanoparticles by a whole-cell based biochip. <i>Materials Today: Proceedings</i> , 2017, 4, 8427-8431.	0.9	2
18	Modifications in physicochemical property of engineered graphene oxide by nanomaterials resistant bacteria. <i>Materials Today: Proceedings</i> , 2017, 4, 8792-8795.	0.9	0

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19	Nanomaterial resistant microorganism mediated reduction of graphene oxide. Colloids and Surfaces B: Biointerfaces, 2016, 146, 39-46.	2.5	15
20	Biotransformation of multi-walled carbon nanotubes mediated by nanomaterial resistant soil bacteria. Chemical Engineering Journal, 2016, 298, 1-9.	6.6	42
21	Cells-on-chip based transducer platform for probing toxicity of metal nanoparticles. Sensors and Actuators B: Chemical, 2016, 231, 659-665.	4.0	3
22	Design, fabrication and performance evaluation of interdigital capacitive sensor for detection of Cardiac Troponin-I and Human Epidermal Growth Factor Receptor 2. , 2015, , .		3
23	Electronic Transducing Chip Platforms for Biosensing Applications. Macromolecular Symposia, 2015, 357, 109-115.	0.4	0
24	VEGF Cancer Biomarker Protein Detection in Real Human Serum Using Capacitive Label-Free Aptasensor. Macromolecular Symposia, 2015, 357, 74-78.	0.4	1
25	Determining the fate of fluorescent quantum dots on surface of engineered budding <i>S. cerevisiae</i> cell molecular landscape. Biosensors and Bioelectronics, 2015, 69, 26-33.	5.3	3
26	<i>S. cerevisiae</i> 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
27	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
28	Capacitive aptamer-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
29	Whole-cell based label-free capacitive biosensor for rapid nanosize-dependent toxicity detection. Biosensors and Bioelectronics, 2015, 67, 100-106.	5.3	18
30	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
31	Chemical toxicity detection using quantum dot encoded <i>E. coli</i> cells. Sensors and Actuators B: Chemical, 2014, 196, 381-387.	4.0	7
32	Quantum dot conjugated <i>S. cerevisiae</i> as smart nanotoxicity indicators for screening the toxicity of nanomaterials. Journal of Materials Chemistry B, 2014, 2, 3618-3625.	2.9	6
33	Quantum Dots Conjugated <i>E. coli</i> Living Cells as Fluorescent Reporters to Detect Cytotoxicity of Chemicals. , 2014, , 471-475.		0
34	Carbon nanotube decorated magnetic microspheres as an affinity matrix for biomolecules. Journal of Materials Chemistry B, 2013, 1, 1894.	2.9	8
35	<i>E. coli</i> -quantum dot bioconjugates as whole-cell fluorescent reporters for probing cellular damage. Journal of Materials Chemistry B, 2013, 1, 2724.	2.9	6
36	Capacitive Biosensor for Nanotoxicity Detection. Procedia Engineering, 2012, 47, 1331-1333.	1.2	0

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37	Rapid and sensitive detection of Nampt (PBEF/visfatin) in human serum using an ssDNA aptamer-based capacitive biosensor. <i>Biosensors and Bioelectronics</i> , 2012, 38, 233-238.	5.3	37
38	Biosensors for cardiac biomarkers detection: A review. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 62-76.	4.0	308
39	An aptamer based competition assay for protein detection using CNT activated gold-interdigitated capacitor arrays. <i>Biosensors and Bioelectronics</i> , 2012, 34, 165-170.	5.3	37
40	A new microfluidics system with a hand-operated, on-chip actuator for immunosensor applications. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 194-201.	4.0	21
41	Probing chemical induced cellular stress by non-Faradaic electrochemical impedance spectroscopy using an Escherichia coli capacitive biochip. <i>Analyst, The</i> , 2011, 136, 2726.	1.7	6
42	Label-Free Capacitive E. coli Biochip for Determining Chemicals that Induce Cellular Toxicity. <i>Procedia Engineering</i> , 2011, 25, 928-931.	1.2	1
43	Global Gene Response in <i>Saccharomyces cerevisiae</i> Exposed to Silver Nanoparticles. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 1278-1291.	1.4	47
44	Aptamers in Liposomes for Selective and Multiplexed Capture of Small Organic Compounds. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1169-1173.	2.0	11
45	Label-free capacitive biosensor for sensitive detection of multiple biomarkers using gold interdigitated capacitor arrays. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2318-2323.	5.3	111
46	Electrochemical aptasensor for tetracycline detection. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 31-37.	1.7	154
47	Label-free detection of cardiac biomarker using aptamer based capacitive biosensor. <i>Procedia Engineering</i> , 2010, 5, 828-830.	1.2	14
48	Label-free RNA aptamer-based capacitive biosensor for the detection of C-reactive protein. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9176.	1.3	70
49	Prediction and classification of the modes of genotoxic actions using bacterial biosensors specific for DNA damages. <i>Biosensors and Bioelectronics</i> , 2009, 25, 767-772.	5.3	32
50	ssDNA aptamers that recognize diclofenac and 2-anilinophenylacetic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5380-5387.	1.4	40
51	Specific detection of oxytetracycline using DNA aptamer-immobilized interdigitated array electrode chip. <i>Analytica Chimica Acta</i> , 2009, 634, 250-254.	2.6	109
52	Toxicity of Metallic Nanoparticles in Microorganisms- a Review. , 2009, , 193-206.		34
53	A novel bioluminescent bacterial biosensor using the highly specific oxidative stress-inducible <i>pgi</i> gene. <i>Biosensors and Bioelectronics</i> , 2008, 24, 670-675.	5.3	29
54	ssDNA aptamers that selectively bind oxytetracycline. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 1254-1261.	1.4	115

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55	Single-stranded DNA aptamers specific for antibiotics tetracyclines. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7245-7253.	1.4	141
56	ssDNA Aptamer-Based Surface Plasmon Resonance Biosensor for the Detection of Retinol Binding Protein 4 for the Early Diagnosis of Type 2 Diabetes. <i>Analytical Chemistry</i> , 2008, 80, 2867-2873.	3.2	148
57	Characterization of superoxide-stress sensing recombinant <i>Escherichia coli</i> constructed using promoters for genes <i>zwf</i> and <i>fpr</i> fused to <i>lux</i> operon. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 1276-1283.	1.7	13
58	Initial degradation of dimethylphthalate by esterases from <i>Bacillus</i> species. <i>FEMS Microbiology Letters</i> , 2001, 196, 201-205.	0.7	94
59	DEGRADATION OF DIMETHYLPHTHALATE BY CELLS OF <i>BACILLUS</i> SP. IMMOBILIZED IN CALCIUM ALGINATE AND POLYURETHANE FOAM. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 1135-1144.	0.9	14