

Pranjal Chandra

List of Publications by Citations

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105
papers

3,935
citations

39
h-index

61
g-index

106
ext. papers

4,600
ext. citations

6.2
avg, IF

6.46
L-index

#	Paper	IF	Citations
105	Ultrasensitive and selective electrochemical diagnosis of breast cancer based on a hydrazine-Au nanoparticle-aptamer bioconjugate. <i>Analytical Chemistry</i> , 2013 , 85, 1058-64	7.8	236
104	Prospects of using nanotechnology for food preservation, safety, and security. <i>Journal of Food and Drug Analysis</i> , 2018 , 26, 1201-1214	7	189
103	Label-free detection of kanamycin based on the aptamer-functionalized conducting polymer/gold nanocomposite. <i>Biosensors and Bioelectronics</i> , 2012 , 36, 29-34	11.8	182
102	Paper based diagnostics for personalized health care: Emerging technologies and commercial aspects. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 246-259	11.8	174
101	Application of a Cu ₂ O alloy dendrite on glucose and hydrogen peroxide sensors. <i>Electrochimica Acta</i> , 2012 , 61, 36-43	6.7	130
100	Prospects of Nanostructure Materials and Their Composites as Antimicrobial Agents. <i>Frontiers in Microbiology</i> , 2018 , 9, 422	5.7	118
99	Detection of daunomycin using phosphatidylserine and aptamer co-immobilized on Au nanoparticles deposited conducting polymer. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4442-9	11.8	115
98	Chitosan: An undisputed bio-fabrication material for tissue engineering and bio-sensing applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 110-123	7.9	111
97	Paper-based miniaturized immunosensor for naked eye ALP detection based on digital image colorimetry integrated with smartphone. <i>Biosensors and Bioelectronics</i> , 2019 , 128, 9-16	11.8	100
96	Biosensor nanoengineering: Design, operation, and implementation for biomolecular analysis. <i>Sensors International</i> , 2020 , 1, 100040	6.1	99
95	In vitro chloramphenicol detection in a Haemophilus influenza model using an aptamer-polymer based electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 337-42	11.8	89
94	Shifting paradigm of cancer diagnoses in clinically relevant samples based on miniaturized electrochemical nanobiosensors and microfluidic devices. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 411-428	11.8	83
93	Fundamentals and commercial aspects of nanobiosensors in point-of-care clinical diagnostics. <i>3 Biotech</i> , 2018 , 8, 149	2.8	78
92	Cancer cell detection based on the interaction between an anticancer drug and cell membrane components. <i>Chemical Communications</i> , 2013 , 49, 1900-2	5.8	75
91	Phytofabricated metallic nanoparticles and their clinical applications. <i>RSC Advances</i> , 2016 , 6, 105996-106010	5.7	74
90	Gold nanoparticle surface engineering strategies and their applications in biomedicine and diagnostics. <i>3 Biotech</i> , 2019 , 9, 57	2.8	68
89	Electropolymerized self-assembled layer on gold nanoparticles: detection of inducible nitric oxide synthase in neuronal cell culture. <i>Analytical Chemistry</i> , 2011 , 83, 6177-83	7.8	68

88	Ultrasensitive detection of drug resistant cancer cells in biological matrixes using an amperometric nanobiosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 418-25	11.8	67
87	Evolving trends in bio/chemical sensor fabrication incorporating bimetallic nanoparticles. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 546-561	11.8	66
86	Engineered Nanomaterial Assisted Signal-amplification Strategies for Enhancing Analytical Performance of Electrochemical Biosensors. <i>Electroanalysis</i> , 2019 , 31, 1615-1629	3	65
85	Smartphone-assisted personalized diagnostic devices and wearable sensors. <i>Current Opinion in Biomedical Engineering</i> , 2020 , 13, 42-50	4.4	64
84	An amperometric nanobiosensor using a biocompatible conjugate for early detection of metastatic cancer cells in biological fluid. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 883-890	11.8	61
83	Investigation on the downregulation of dopamine by acetaminophen administration based on their simultaneous determination in urine. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 139-44	11.8	61
82	In vivo detection of glutathione disulfide and oxidative stress monitoring using a biosensor. <i>Biomaterials</i> , 2012 , 33, 2600-7	15.6	60
81	Clinically practiced and commercially viable nanobio engineered analytical methods for COVID-19 diagnosis. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112361	11.8	59
80	A review on determination of steroids in biological samples exploiting nanobio-electroanalytical methods. <i>Analytica Chimica Acta</i> , 2013 , 762, 14-24	6.6	59
79	Uricase grafted nanoconducting matrix based electrochemical biosensor for ultrafast uric acid detection in human serum samples. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 333-341 ⁹	7.9	56
78	CD 59 Targeted Ultrasensitive Electrochemical Immunosensor for Fast and Noninvasive Diagnosis of Oral Cancer. <i>Electroanalysis</i> , 2016 , 28, 2565-2574	3	56
77	Separation and simultaneous detection of anticancer drugs in a microfluidic device with an amperometric biosensor. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 326-32	11.8	55
76	Miniaturized label-free smartphone assisted electrochemical sensing approach for personalized COVID-19 diagnosis. <i>Sensors International</i> , 2020 , 1, 100019	6.1	55
75	Biomarkers of oxidative stress in erythrocytes as a function of human age. <i>World Journal of Methodology</i> , 2015 , 5, 216-22	1.2	50
74	Clinical implications and electrochemical biosensing of monoamine neurotransmitters in body fluids, in vitro, in vivo, and ex vivo models. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 137-152	11.8	50
73	Novel electrochemical biosensor for serotonin detection based on gold nanorattles decorated reduced graphene oxide in biological fluids and in vitro model. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111502	11.8	49
72	In vitro monitoring of i-NOS concentrations with an immunosensor: the inhibitory effect of endocrine disruptors on i-NOS release. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 278-82	11.8	48
71	Chitosan stabilized gold nanoparticle mediated self-assembled gliP nanobiosensor for diagnosis of Invasive Aspergillosis. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 449-456	7.9	47

70	Synthesis, characterization and in vitro analysis of α -FeO-GdFeO biphasic materials as therapeutic agent for magnetic hyperthermia applications. <i>Materials Science and Engineering C</i> , 2018 , 92, 932-941	8.3	43
69	Engineered nanoporous materials mediated heterogeneous catalysts and their implications in biodiesel production. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 11-21	5.2	43
68	Nanoengineered material based biosensing electrodes for enzymatic biofuel cells applications. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 38-48	5.2	43
67	Detection of norfloxacin and monitoring its effect on caffeine catabolism in urine samples. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 307-12	11.8	41
66	Gold Nanoparticles and Nanocomposites in Clinical Diagnostics Using Electrochemical Methods. <i>Journal of Nanoparticles</i> , 2013 , 2013, 1-12		39
65	Clinically comparable impedimetric immunosensor for serum alkaline phosphatase detection based on electrochemically engineered Au-nano-Dendroids and graphene oxide nanocomposite. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111815	11.8	39
64	Simultaneous detection of antibacterial sulfonamides in a microfluidic device with amperometry. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 204-9	11.8	38
63	Design and characterization of novel Al-doped ZnO nanoassembly as an effective nanoantibiotic. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 1925-1941	3.3	36
62	Ultrasensitive dual probe immunosensor for the monitoring of nicotine induced-brain derived neurotrophic factor released from cancer cells. <i>Biosensors and Bioelectronics</i> , 2018 , 116, 108-115	11.8	35
61	Electrochemical Immunosensors 2018 , 359-414		28
60	Sputtering enhanced peroxidase like activity of a dendritic nanochip for amperometric determination of hydrogen peroxide in blood samples. <i>Mikrochimica Acta</i> , 2019 , 186, 658	5.8	27
59	Synthesis and Application of PHT-TiO ₂ Nanohybrid for Amperometric Glucose Detection in Human Saliva Sample. <i>Electroanalysis</i> , 2018 , 30, 2793-2802	3	27
58	Development of a bifunctional nanobiosensor for screening and detection of chemokine ligand in colorectal cancer cell line. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 396-403	11.8	26
57	Bioinspired Composite Materials: Applications in Diagnostics and Therapeutics. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1640004	1.3	26
56	Design of commercially comparable nanotherapeutic agent against human disease-causing parasite, Leishmania. <i>Scientific Reports</i> , 2018 , 8, 8814	4.9	24
55	Highly Sensitive in vitro Biosensor for Enterotoxigenic Escherichia coli Detection Based on ssDNA Anchored on PtNPs-Chitosan Nanocomposite. <i>Electroanalysis</i> , 2017 , 29, 2665-2671	3	23
54	Red blood cells as an efficient in vitro model for evaluating the efficacy of metallic nanoparticles. <i>3 Biotech</i> , 2019 , 9, 279	2.8	23
53	Gold-Iron Bimetallic Nanoparticles Impregnated Reduced Graphene Oxide Based Nanosensor for Label-free Detection of Biomarker Related to Non-alcoholic Fatty Liver Disease. <i>Electroanalysis</i> , 2019 , 31, 2417-2428	3	22

52	A simple separation method with a microfluidic channel based on alternating current potential modulation. <i>Analytical Chemistry</i> , 2012 , 84, 9738-44	7.8	21
51	Electrochemical Evaluation of Binding Affinity for Aptamer Selection Using the Microarray Chip. <i>Electroanalysis</i> , 2012 , 24, 1057-1064	3	21
50	Design and Development of Ultrafast Sinapic Acid Sensor Based on Electrochemically Nanotuned Gold Nanoparticles and Solvothermally Reduced Graphene Oxide. <i>Electroanalysis</i> , 2020 , 32, 59-69	3	20
49	Age-dependent detection of erythrocytes glucose-6-phosphate dehydrogenase and its correlation with oxidative stress. <i>Archives of Physiology and Biochemistry</i> , 2016 , 122, 61-6	2.2	19
48	Novel Sensing Assembly Comprising Engineered Gold Dendrites and MWCNT-AuNPs Nanohybrid for Acetaminophen Detection in Human Urine. <i>Electroanalysis</i> , 2020 , 32, 561-570	3	19
47	Cancer Cytosensing Approaches in Miniaturized Settings Based on Advanced Nanomaterials and Biosensors 2019 , 133-147		18
46	Prospects and advancements in C-reactive protein detection. <i>World Journal of Methodology</i> , 2014 , 4, 1-5	1.2	17
45	Nanostructured Ba/ZnO modified electrode as a sensor material for detection of organosulfur thiosalicylic acid. <i>Microchemical Journal</i> , 2020 , 159, 105409	4.8	16
44	Modernization of Biosensing Strategies for the Development of Lab-on-Chip Integrated Systems 2019 , 325-342		15
43	Glucose modified carbon paste sensor in the presence of cationic surfactant for mefenamic acid detection in urine and pharmaceutical samples. <i>Microchemical Journal</i> , 2021 , 160, 105599	4.8	15
42	Multi-target detection of oxidative stress biomarkers in quercetin and myricetin treated human red blood cells. <i>RSC Advances</i> , 2016 , 6, 53195-53202	3.7	14
41	Influence of Dietary Capsaicin on Redox Status in Red Blood Cells During Human Aging. <i>Advanced Pharmaceutical Bulletin</i> , 2015 , 5, 583-6	4.5	13
40	CHAPTER 11: Advance Engineered Nanomaterials in Point-of-care Immunosensing for Biomedical Diagnostics. <i>RSC Detection Science</i> , 2019 , 238-266	0.4	13
39	Nanotherapeutics: A Novel and Powerful Approach in Modern Healthcare System 2019 , 149-161		13
38	Smart Materials for Biosensing Applications 2018 , 421-431		11
37	Paper-based biosensors for clinical and biomedical applications: Emerging engineering concepts and challenges. <i>Comprehensive Analytical Chemistry</i> , 2020 , 89, 163-188	1.9	9
36	Advances in Clinical Diagnosis through Electrochemical Aptamer Sensors. <i>Journal of Bioanalysis & Biomedicine</i> , 2013 , 05,	1	9
35	Nanobioengineered Sensing Technologies Based on Cellulose Matrices for Detection of Small Molecules, Macromolecules, and Cells. <i>Biosensors</i> , 2021 , 11,	5.9	9

34	Electrochemical Nanobiosensors for Cancer Diagnosis. <i>Journal of Analytical & Bioanalytical Techniques</i> , 2015 , 6,		7
33	Ultrasensitive Aptasensors for the Detection of Viruses Based on Opto-Electrochemical Readout Systems.. <i>Biosensors</i> , 2022 , 12,	5.9	7
32	Marine Biomaterials in Therapeutics and Diagnostic 2015 , 1247-1263		6
31	Bio-Nano-Interface Engineering Strategies of AuNPs Passivation for Next-Generation Biomedical Applications 2020 , 215-231		5
30	HER2 Protein Biomarker Based Sensor Systems for Breast Cancer Diagnosis. <i>Journal of Molecular Biomarkers & Diagnosis</i> , 2013 , 05,	2	4
29	Advanced Biosensing Methodologies for Ultrasensitive Detection of Human Coronaviruses. <i>Medical Virology</i> , 2020 , 19-36	6.6	4
28	Amberlite XAD-4 based electrochemical sensor for diclofenac detection in urine and commercial tablets. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125044	4.4	4
27	Next-Generation Immunosensing Technologies Based on Nano-Bio-Engineered Paper Matrices 2021 , 93-110		3
26	Electroanalytical techniques for investigating biofilms: Applications in biosensing and biomolecular interfacing 2020 , 293-329		3
25	Chromatography-Based Determination of Anabolic Steroids in Biological Fluids: Future Prospects Using Electrochemistry and Miniaturized Microchip Device. <i>Chromatographia</i> , 2013 , 76, 1439-1448	2.1	2
24	Advance Diagnosis of Drug Resistance in Cancer: Towards Point-of-Care Electronic Nanodevice. <i>Journal of Analytical & Bioanalytical Techniques</i> , 2015 , 06,		2
23	Nano-Bio-engineered Silk Matrix based Devices for Molecular Bioanalysis.. <i>Biotechnology and Bioengineering</i> , 2021 ,	4.9	2
22	Insights into Novel Coronavirus and COVID-19 Outbreak. <i>Medical Virology</i> , 2020 , 1-17	6.6	2
21	Electrochemical biosensors for monitoring of bioorganic and inorganic chemical pollutants in biological and environmental matrices 2022 , 509-531		2
20	Spectroscopic determination of intracellular quercetin uptake using erythrocyte model and its implications in human aging. <i>3 Biotech</i> , 2018 , 8, 498	2.8	2
19	N-acetyl-d-glucosamine decorated nano-lipid-based carriers as theranostics module for targeted anti-cancer drug delivery. <i>Materials Chemistry and Physics</i> , 2022 , 282, 125956	4.4	2
18	Marine Biological Macromolecules as Matrix Material for Biosensor fabrication.. <i>Biotechnology and Bioengineering</i> , 2022 ,	4.9	2
17	Nanomaterial Functionalization Strategies in Bio-Interface Development for Modern Diagnostic Devices 2020 , 195-214		1

16	Materials for wearable sensors 2022 , 5-40		1
15	Nano-bioengineered sensing technologies for real-time monitoring of reactive oxygen species in in vitro and in vivo models. <i>Microchemical Journal</i> , 2022 , 180, 107615	4.8	1
14	Engineered three-dimensional Au-Cu bimetallic dendritic nanosensor for ultrasensitive drug detection in urine samples and in vitro human embryonic kidney cells model. <i>Microchemical Journal</i> , 2022 , 176, 107239	4.8	0
13	Ultra-sensitive detection of tizanidine in commercial tablets and urine samples using zinc oxide coated glassy carbon electrode. <i>Microchemical Journal</i> , 2022 , 172, 106956	4.8	0
12	Mutational studies on Leishmania donovani dihydrolipoamide dehydrogenase (LdBPK291950.1) indicates that the enzyme may not be classical class-I pyridine nucleotide-disulfide oxidoreductase. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2141-2150	7.9	0
11	Design and Development of Lactoferrin Conjugated Lipid-polymer Nano-bio-hybrid for Cancer Theranostics. <i>Materials Today Communications</i> , 2022 , 103548	2.5	0
10	Novel Therapeutics and Diagnostics Strategies Based on Engineered Nanobiomaterials 2019 , 1-27		
9	Strategy of Marine Viruses in Global Ecosystem 2013 , 33-44		
8	Biomedical Potential of Marine Sponges 2016 , 329-340		
7	Omics and Its Application in Clinical Nanotechnology and Nanodiagnostics 2016 , 497-512		
6	Advanced Microchannel Fabrication Technologies for Biomedical Devices. <i>Materials Horizons</i> , 2022 , 127-143		
5	Potential of Nanotechnology in Food Analysis and Quality Improvement 2022 , 169-194		
4	Onsite Quality Controls for Food Safety Based on Miniaturized Biosensing 2022 , 251-272		
3	Commercial Aspects and Market Pull of Biosensors in Diagnostic Industries 2022 , 351-368		
2	Continuous Glucose Monitoring for Diabetes Management Based on Miniaturized Biosensors 2022 , 149-175		
1	Engineering Design, Implementation, and Sensing Mechanisms of Wearable Bioelectronic Sensors in Clinical Settings. <i>Electroanalysis</i> ,		3