

Bansi D Malhotra

List of Publications by Year in descending order

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345
papers

23,516
citations

5896

81
h-index

11939

134
g-index

354
all docs

354
docs citations

354
times ranked

19393
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of conducting polymers to biosensors. <i>Biosensors and Bioelectronics</i> , 2002, 17, 345-359.	10.1	1,457
2	Mediated biosensors. <i>Biosensors and Bioelectronics</i> , 2002, 17, 441-456.	10.1	695
3	Nanostructured metal oxide-based biosensors. <i>NPG Asia Materials</i> , 2011, 3, 17-24.	7.9	612
4	Recent advances in polyaniline based biosensors. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2811-2821.	10.1	453
5	Organic-Inorganic Hybrid Nanocomposite-Based Gas Sensors for Environmental Monitoring. <i>Chemical Reviews</i> , 2015, 115, 4571-4606.	47.7	429
6	Iron oxide nanoparticles-chitosan composite based glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2008, 24, 676-683.	10.1	422
7	Prospects of conducting polymers in biosensors. <i>Analytica Chimica Acta</i> , 2006, 578, 59-74.	5.4	349
8	An impedimetric biosensor based on electrophoretically assembled ZnO nanorods and carboxylated graphene nanoflakes on an indium tin oxide electrode for detection of the DNA of <i>Escherichia coli</i> O157:H7. <i>Mikrochimica Acta</i> , 2020, 187, 1.	5.0	332
9	Glucose Biosensor Based on a Sol-Gel-Derived Platform. <i>Analytical Chemistry</i> , 1994, 66, 3139-3144.	6.5	265
10	Biosensors for clinical diagnostics industry. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 117-127.	7.8	254
11	Zinc oxide nanoparticles-chitosan composite film for cholesterol biosensor. <i>Analytica Chimica Acta</i> , 2008, 616, 207-213.	5.4	250
12	Prospects of conducting polymers in molecular electronics. <i>Current Applied Physics</i> , 2003, 3, 293-305.	2.4	246
13	Cholesterol biosensor based on rf sputtered zinc oxide nanoporous thin film. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	239
14	Recent advances in mycotoxins detection. <i>Biosensors and Bioelectronics</i> , 2016, 81, 532-545.	10.1	237
15	Recent advances in cholesterol biosensor. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1083-1100.	10.1	236
16	Application of Thiolated Gold Nanoparticles for the Enhancement of Glucose Oxidase Activity. <i>Langmuir</i> , 2007, 23, 3333-3337.	3.5	227
17	Sol-gel derived nanoporous cerium oxide film for application to cholesterol biosensor. <i>Electrochemistry Communications</i> , 2008, 10, 1246-1249.	4.7	213
18	Iron oxide-chitosan nanobiocomposite for urea sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 572-580.	7.8	205

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19	Recent advances in self-assembled monolayers based biomolecular electronic devices. Biosensors and Bioelectronics, 2009, 24, 2810-2817.	10.1	199
20	Cell-based biosensors: Recent trends, challenges and future perspectives. Biosensors and Bioelectronics, 2019, 141, 111435.	10.1	194
21	Microfluidics Based Point-of-Care Diagnostics. Biotechnology Journal, 2018, 13, 1700047.	3.5	193
22	Cholesterol biosensor based on cholesterol esterase, cholesterol oxidase and peroxidase immobilized onto conducting polyaniline films. Sensors and Actuators B: Chemical, 2006, 115, 534-541.	7.8	191
23	Recent developments in urea biosensors. Biochemical Engineering Journal, 2009, 44, 42-52.	3.6	177
24	Prospects of Nanomaterials in Biosensors. Analytical Letters, 2008, 41, 159-209.	1.8	174
25	Recent advances in carbon based nanosystems for cancer theranostics. Biomaterials Science, 2017, 5, 901-952.	5.4	172
26	Nanostructured zirconia decorated reduced graphene oxide based efficient biosensing platform for non-invasive oral cancer detection. Biosensors and Bioelectronics, 2016, 78, 497-504.	10.1	166
27	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. Nanoscale, 2013, 5, 3043.	5.6	158
28	Microfluidic integrated biosensors: Prospects for point-of-care diagnostics. Biotechnology Journal, 2013, 8, 1267-1279.	3.5	147
29	Biosensors for pathogen detection: A smart approach towards clinical diagnosis. Sensors and Actuators B: Chemical, 2014, 197, 385-404.	7.8	147
30	Amperometric cholesterol biosensor based on immobilized cholesterol esterase and cholesterol oxidase on conducting polypyrrole films. Analytica Chimica Acta, 2004, 502, 229-234.	5.4	139
31	Polyaniline-carbon nanotube composite film for cholesterol biosensor. Analytical Biochemistry, 2008, 383, 194-199.	2.4	139
32	Sol-gel derived nanostructured cerium oxide film for glucose sensor. Applied Physics Letters, 2008, 92, .	3.3	138
33	Carboxylated multiwalled carbon nanotubes based biosensor for aflatoxin detection. Sensors and Actuators B: Chemical, 2013, 185, 258-264.	7.8	138
34	Reduced graphene oxide modified smart conducting paper for cancer biosensor. Biosensors and Bioelectronics, 2015, 73, 114-122.	10.1	138
35	Metal/semiconductive polymer Schottky device. Applied Physics Letters, 1991, 58, 51-52.	3.3	137
36	Highly Sensitive Biofunctionalized Mesoporous Electrospun TiO ₂ Nanofiber Based Interface for Biosensing. ACS Applied Materials & Interfaces, 2014, 6, 2516-2527.	8.0	136

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37	Antibody immobilized cysteamine functionalized-gold nanoparticles for aflatoxin detection. <i>Thin Solid Films</i> , 2010, 519, 1213-1218.	1.8	133
38	Hydrogen peroxide sensor based on horseradish peroxidase immobilized nanostructured cerium oxide film. <i>Journal of Biotechnology</i> , 2009, 142, 179-184.	3.8	132
39	Synthesis and characterization of poly(aniline-co-o-anisidine). A processable conducting copolymer. <i>Macromolecules</i> , 1993, 26, 3190-3193.	4.8	131
40	Chitosan-iron oxide nanobiocomposite based immunosensor for ochratoxin-A. <i>Electrochemistry Communications</i> , 2008, 10, 1364-1368.	4.7	130
41	Co-immobilization of cholesterol oxidase and horseradish peroxidase in a sol-gel film. <i>Analytica Chimica Acta</i> , 2000, 414, 43-50.	5.4	129
42	Nanostructured zinc oxide platform for mycotoxin detection. <i>Bioelectrochemistry</i> , 2010, 77, 75-81.	4.6	127
43	Recent trends in biosensors. <i>Current Applied Physics</i> , 2005, 5, 92-97.	2.4	126
44	Application of electrochemically prepared polypyrrole-polyvinyl sulphonate films to DNA biosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1777-1783.	10.1	126
45	Covalent immobilization of cholesterol esterase and cholesterol oxidase on polyaniline films for application to cholesterol biosensor. <i>Analytica Chimica Acta</i> , 2006, 568, 126-132.	5.4	122
46	Multi-walled carbon nanotubes/sol-gel-derived silica/chitosan nanobiocomposite for total cholesterol sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 727-735.	7.8	121
47	Preparation of polyaniline/multiwalled carbon nanotube composite by novel electrophoretic route. <i>Carbon</i> , 2008, 46, 1727-1735.	10.3	118
48	Co-immobilization of lactate oxidase and lactate dehydrogenase on conducting polyaniline films. <i>Analytica Chimica Acta</i> , 2000, 407, 97-103.	5.4	117
49	Nanoporous cerium oxide thin film for glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2040-2045.	10.1	116
50	Review-Textile Based Chemical and Physical Sensors for Healthcare Monitoring. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037546.	2.9	115
51	Prospects of nanomaterials-enabled biosensors for COVID-19 detection. <i>Science of the Total Environment</i> , 2021, 754, 142363.	8.0	114
52	Immobilization of cholesterol oxidase and potassium ferricyanide on dodecylbenzene sulfonate ion-doped polypyrrole film. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3486-3491.	2.6	112
53	Cholesterol biosensor based on electrophoretically deposited conducting polymer film derived from nano-structured polyaniline colloidal suspension. <i>Analytica Chimica Acta</i> , 2007, 602, 244-251.	5.4	112
54	Zinc oxide-chitosan nanobiocomposite for urea sensor. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	111

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55	Biofunctionalized Nanostructured Zirconia for Biomedical Application: A Smart Approach for Oral Cancer Detection. <i>Advanced Science</i> , 2015, 2, 1500048.	11.2	111
56	Immobilization of lactate dehydrogenase on electrochemically prepared polypyrrole-polyvinylsulphonate composite films for application to lactate biosensors. <i>Electrochimica Acta</i> , 2001, 46, 723-729.	5.2	107
57	Anti-epidermal growth factor receptor conjugated mesoporous zinc oxide nanofibers for breast cancer diagnostics. <i>Nanoscale</i> , 2015, 7, 7234-7245.	5.6	107
58	A nanostructured cerium oxide film-based immunosensor for mycotoxin detection. <i>Nanotechnology</i> , 2009, 20, 055105.	2.6	106
59	Nanostructured zinc oxide platform for cholesterol sensor. <i>Applied Physics Letters</i> , 2009, 94, 143901.	3.3	105
60	Cholesterol biosensor based on N-(2-aminoethyl)-3-aminopropyl-trimethoxysilane self-assembled monolayer. <i>Analytical Biochemistry</i> , 2007, 363, 210-218.	2.4	103
61	Electrochemical Cholesterol Sensor Based on Tin Oxide-Chitosan Nanobiocomposite Film. <i>Electroanalysis</i> , 2009, 21, 965-972.	2.9	103
62	Nanostructured nickel oxide-chitosan film for application to cholesterol sensor. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	102
63	Nanoengineered cellulosic biohydrogen production via dark fermentation: A novel approach. <i>Biotechnology Advances</i> , 2019, 37, 107384.	11.7	101
64	Nanostructured zinc oxide film for urea sensor. <i>Materials Letters</i> , 2009, 63, 2473-2475.	2.6	100
65	Polyaniline Langmuir-Blodgett film based aptasensor for ochratoxin A detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4006-4011.	10.1	100
66	Covalent immobilization of glucose oxidase to poly(O-amino benzoic acid) for application to glucose biosensor. <i>Journal of Applied Polymer Science</i> , 2000, 78, 662-667.	2.6	98
67	Polyaniline Langmuir-Blodgett Film Based Cholesterol Biosensor. <i>Langmuir</i> , 2007, 23, 13188-13192.	3.5	98
68	Nanomaterials in Biosensors. , 2018, , 1-74.		98
69	Electrochemical paper based cancer biosensor using iron oxide nanoparticles decorated PEDOT:PSS. <i>Analytica Chimica Acta</i> , 2019, 1056, 135-145.	5.4	98
70	Fundamentals and application of ordered molecular assemblies to affinity biosensing. <i>Chemical Society Reviews</i> , 2012, 41, 1363-1402.	38.1	94
71	Nanomaterial-Based Biosensors for Food Toxin Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 880-896.	2.9	94
72	Immobilization of urease on poly(N-vinyl carbazole)/stearic acid Langmuir-Blodgett films for application to urea biosensor. <i>Biosensors and Bioelectronics</i> , 2002, 17, 697-703.	10.1	93

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73	Recent developments in bio-molecular electronics techniques for food pathogens. <i>Analytica Chimica Acta</i> , 2006, 568, 259-274.	5.4	92
74	Preparation, characterization and application of polyaniline nanospheres to biosensing. <i>Nanoscale</i> , 2010, 2, 747.	5.6	92
75	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1060-1069.	7.8	91
76	Polyaniline/Polymeric acid composite, a novel conducting rubber. <i>Journal of Applied Polymer Science</i> , 1990, 40, 1049-1052.	2.6	88
77	Nanostructured cerium oxide film for triglyceride sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 551-556.	7.8	86
78	Coimmobilization of Urease and Glutamate Dehydrogenase in Electrochemically Prepared Polypyrrole - Polyvinyl Sulfonate Films. <i>Applied Biochemistry and Biotechnology</i> , 2001, 96, 249-258.	2.9	85
79	Synthesis and characterization of a copolymer: Poly(aniline-co-fluoroaniline). <i>Journal of Applied Polymer Science</i> , 2001, 81, 1460-1466.	2.6	84
80	Highly sensitive protein functionalized nanostructured hafnium oxide based biosensing platform for non-invasive oral cancer detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 1-10.	7.8	84
81	<i>E. coli</i> Genosensor Based on Polyaniline. <i>Analytical Chemistry</i> , 2007, 79, 6152-6158.	6.5	83
82	Improved performance of polyaniline-uricase biosensor. <i>Analytica Chimica Acta</i> , 2007, 594, 17-23.	5.4	83
83	A novel electrochemical piezoelectric label free immunosensor for aflatoxin B1 detection in groundnut. <i>Food Control</i> , 2015, 52, 60-70.	5.5	83
84	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. <i>Talanta</i> , 2006, 69, 918-926.	5.5	81
85	Nucleic acid sensor for <i>M. tuberculosis</i> detection based on surface plasmon resonance. <i>Analyst</i> , 2008, 133, 1587.	3.5	81
86	Ultrasensitive DNA hybridization biosensor based on polyaniline. <i>Biosensors and Bioelectronics</i> , 2007, 23, 613-620.	10.1	79
87	A novel ternary NiFe ₂ O ₄ /CuO/FeO-chitosan nanocomposite as a cholesterol biosensor. <i>Process Biochemistry</i> , 2012, 47, 2189-2198.	3.7	79
88	Poly-(3-hexylthiophene) self-assembled monolayer based cholesterol biosensor using surface plasmon resonance technique. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2516-2524.	10.1	78
89	Langmuir-Blodgett films of poly(3-dodecyl thiophene) for application to glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 42-48.	7.8	77
90	Characteristics of aqueous polycarbazole batteries. <i>Journal of Applied Polymer Science</i> , 1999, 74, 145-150.	2.6	76

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91	Highly Efficient Bienenzyme Functionalized Nanocomposite-Based Microfluidics Biosensor Platform for Biomedical Application. <i>Scientific Reports</i> , 2013, 3, 2661.	3.3	76
92	Gold nanomaterials for optical biosensing and bioimaging. <i>Nanoscale Advances</i> , 2021, 3, 2679-2698.	4.6	76
93	Electrochemical Growth of Polyaniline in Porous Sol-Gel Films. <i>Chemistry of Materials</i> , 1996, 8, 822-824.	6.7	75
94	Lipid-Lipid Interactions in Aminated Reduced Graphene Oxide Interface for Biosensing Application. <i>Langmuir</i> , 2014, 30, 4192-4201.	3.5	75
95	A Novel Protocol to Entrap Active Urease in a Tetraethoxysilane-Derived Sol-Gel Thin-Film Architecture. <i>Chemistry of Materials</i> , 1994, 6, 1596-1598.	6.7	73
96	Electrochemical DNA sensor for <i>Neisseria meningitidis</i> detection. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2586-2591.	10.1	73
97	Point-of-Care PCR Assays for COVID-19 Detection. <i>Biosensors</i> , 2021, 11, 141.	4.7	73
98	Vacuum-deposited metal/polyaniline Schottky device. <i>Applied Physics Letters</i> , 1992, 61, 1219-1221.	3.3	72
99	Iron oxide-chitosan hybrid nanobiocomposite based nucleic acid sensor for pyrethroid detection. <i>Biochemical Engineering Journal</i> , 2009, 46, 132-140.	3.6	72
100	Electrochromic properties of polycarbazole films. <i>Polymer</i> , 1997, 38, 1625-1629.	3.8	71
101	Immobilization of cholesterol esterase and cholesterol oxidase onto sol-gel films for application to cholesterol biosensor. <i>Analytica Chimica Acta</i> , 2007, 582, 335-343.	5.4	71
102	Polyaniline Based Nucleic Acid Sensor. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4808-4816.	2.6	70
103	Zirconia based nucleic acid sensor for <i>Mycobacterium tuberculosis</i> detection. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	70
104	Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2018, 105, 173-181.	10.1	69
105	Application of polyaniline-Langmuir-Blodgett films as a glucose biosensor. <i>Materials Science and Engineering C</i> , 1995, 3, 159-163.	7.3	68
106	Chitosan encapsulated quantum dots platform for leukemia detection. <i>Biosensors and Bioelectronics</i> , 2012, 38, 107-113.	10.1	67
107	Amine-Functionalized MoO ₃ @RGO Nanohybrid-Based Biosensor for Breast Cancer Detection. <i>ACS Applied Bio Materials</i> , 2019, 2, 5366-5378.	4.6	67
108	Cerium oxide-chitosan based nanobiocomposite for food borne mycotoxin detection. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	66

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109	Recent advances in 3D printing technologies for wearable (bio)sensors. Additive Manufacturing, 2021, 46, 102088.	3.0	66
110	Chitosan-iron oxide nano-composite platform for mismatch-discriminating DNA hybridization for Neisseria gonorrhoeae detection causing sexually transmitted disease. Biosensors and Bioelectronics, 2011, 26, 2967-2974.	10.1	65
111	Ring like self assembled Ni nanoparticles based biosensor for food toxin detection. Applied Physics Letters, 2012, 100, .	3.3	65
112	Highly Efficient Bienzyme Functionalized Biocompatible Nanostructured Nickel Ferrite-Chitosan Nanocomposite Platform for Biomedical Application. Journal of Physical Chemistry C, 2013, 117, 8491-8502.	3.1	65
113	Highly sensitive porous carbon and metal/carbon conducting nanofiber based enzymatic biosensors for triglyceride detection. Sensors and Actuators B: Chemical, 2017, 246, 202-214.	7.8	65
114	Application of nanostructured ZnO films for electrochemical DNA biosensor. Thin Solid Films, 2010, 519, 1196-1201.	1.8	64
115	Mediator-free microfluidics biosensor based on titania-zirconia nanocomposite for urea detection. RSC Advances, 2013, 3, 228-235.	3.6	64
116	Lactose biosensor based on Langmuir-Blodgett films of poly(3-hexyl thiophene). Biosensors and Bioelectronics, 2004, 20, 651-657.	10.1	63
117	Metal oxide-chitosan based nanocomposite for cholesterol biosensor. Thin Solid Films, 2009, 518, 614-620.	1.8	63
118	A highly efficient rare earth metal oxide nanorods based platform for aflatoxin detection. Journal of Materials Chemistry B, 2013, 1, 4493.	5.8	63
119	A highly efficient microfluidic nano biochip based on nanostructured nickel oxide. Nanoscale, 2013, 5, 2883.	5.6	63
120	Microporous Nanocomposite Enabled Microfluidic Biochip for Cardiac Biomarker Detection. ACS Applied Materials & Interfaces, 2017, 9, 33576-33588.	8.0	63
121	Electrophoretic Fabrication of Chitosan-Zirconium-Oxide Nanobiocomposite Platform for Nucleic Acid Detection. Biomacromolecules, 2011, 12, 540-547.	5.4	62
122	Effect of Brownian motion on reduced agglomeration of nanostructured metal oxide towards development of efficient cancer biosensor. Biosensors and Bioelectronics, 2018, 102, 247-255.	10.1	61
123	Polypyrrole-polyvinyl sulphonate film based disposable nucleic acid biosensor. Analytica Chimica Acta, 2007, 589, 6-13.	5.4	60
124	Bienzyme-Functionalized Monodispersed Biocompatible Cuprous Oxide/Chitosan Nanocomposite Platform for Biomedical Application. Journal of Physical Chemistry B, 2013, 117, 141-152.	2.6	60
125	Graphene Oxide-Based Biosensor for Food Toxin Detection. Applied Biochemistry and Biotechnology, 2014, 174, 960-970.	2.9	60
126	STD sensor based on nucleic acid functionalized nanostructured polyaniline. Biosensors and Bioelectronics, 2009, 24, 2232-2238.	10.1	59

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127	Sol-gel derived nano-structured zinc oxide film for sexually transmitted disease sensor. <i>Analyst</i> , The, 2009, 134, 997.	3.5	59
128	Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B ₁ detection. <i>RSC Advances</i> , 2015, 5, 5406-5414.	3.6	59
129	Molecularly imprinted polyaniline film for ascorbic acid detection. <i>Journal of Molecular Recognition</i> , 2011, 24, 700-706.	2.1	58
130	Protein Functionalized Carbon Nanotubes-based Smart Lab-on-a-Chip. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5837-5846.	8.0	58
131	Langmuir-Blodgett films of processable polyaniline. <i>The Journal of Physical Chemistry</i> , 1993, 97, 11580-11582.	2.9	57
132	Cholesterol Biosensor Based on Amino-Undecanethiol Self-Assembled Monolayer Using Surface Plasmon Resonance Technique. <i>Langmuir</i> , 2007, 23, 7398-7403.	3.5	57
133	Current progress in organic-inorganic hetero-nano-interfaces based electrochemical biosensors for healthcare monitoring. <i>Coordination Chemistry Reviews</i> , 2022, 452, 214282.	18.8	57
134	Polyaniline nanotubes for impedimetric triglyceride detection. <i>Electrochemistry Communications</i> , 2009, 11, 1482-1486.	4.7	56
135	A dual enzyme functionalized nanostructured thulium oxide based interface for biomedical application. <i>Nanoscale</i> , 2014, 6, 1195-1208.	5.6	56
136	Recent studies of heterocyclic and aromatic conducting polymers. <i>Progress in Polymer Science</i> , 1986, 12, 179-218.	24.7	55
137	Poly-1-naphthalene oxide-pyrrole: A new electro-chemically-generated conducting polymer. <i>Synthetic Metals</i> , 1989, 31, 155-162.	3.9	55
138	Immobilization of single stranded DNA probe onto polypyrrole-polyvinyl sulfonate for application to DNA hybridization biosensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 655-663.	7.8	55
139	Label-free piezoelectric immunosensor decorated with gold nanoparticles: Kinetic analysis and biosensing application. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 804-814.	7.8	54
140	Immobilization of Lactate Dehydrogenase on Electrochemically Prepared Polyaniline Films. <i>Electroanalysis</i> , 1999, 11, 450-452.	2.9	51
141	Langmuir-Blodgett film based biosensor for estimation of galactose in milk. <i>Electrochimica Acta</i> , 2004, 49, 2479-2485.	5.2	51
142	Nanobiocomposite platform based on polyaniline-iron oxide-carbon nanotubes for bacterial detection. <i>Bioelectrochemistry</i> , 2012, 86, 30-37.	4.6	51
143	Synthesis of optically active silica-coated NdF ₃ core-shell nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 432-436.	3.9	50
144	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7646-7656.	8.0	50

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145	Polyaniline/Single-Walled Carbon Nanotubes Composite Based Triglyceride Biosensor. <i>Electroanalysis</i> , 2010, 22, 2683-2693.	2.9	49
146	Multiwalled carbon nanotube modified microfluidic-based biosensor chip for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 329-336.	7.8	49
147	Improved electrochemical nucleic acid biosensor based on polyaniline-polyvinyl sulphonate. <i>Electrochimica Acta</i> , 2008, 53, 4344-4350.	5.2	48
148	Nanostructured zirconium oxide based genosensor for Escherichia coli detection. <i>Electrochemistry Communications</i> , 2009, 11, 2272-2277.	4.7	48
149	Nanostructured Iron Oxide Platform for Impedimetric Cholesterol Detection. <i>Electroanalysis</i> , 2010, 22, 1045-1055.	2.9	48
150	A solution processed carbon nanotube modified conducting paper sensor for cancer detection. <i>Journal of Materials Chemistry B</i> , 2015, 3, 9305-9314.	5.8	48
151	Characterization of electrochemically synthesized poly(2-fluoroaniline) film and its application to glucose biosensor. <i>Current Applied Physics</i> , 2003, 3, 239-245.	2.4	46
152	An Amperometric Uric Acid Biosensor Based on Immobilization of Uricase onto Polyaniline-multiwalled Carbon Nanotube Composite Film. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2010, 38, 178-185.	0.9	46
153	Nanopatterned Cadmium Selenide Langmuir-Blodgett Platform for Leukemia Detection. <i>Analytical Chemistry</i> , 2012, 84, 3082-3089.	6.5	46
154	Nanostructured anatase-titanium dioxide based platform for application to microfluidics cholesterol biosensor. <i>Applied Physics Letters</i> , 2012, 101, 084105.	3.3	46
155	Application of electrochemically prepared poly-N-methylpyrrole-p-toluene sulphonate films to cholesterol biosensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 829-839.	7.8	45
156	Cholesterol biosensor based on electrochemically prepared polyaniline conducting polymer film in presence of a nonionic surfactant. <i>Journal of Polymer Research</i> , 2009, 16, 363-373.	2.4	45
157	CtrA gene based electrochemical DNA sensor for detection of meningitis. <i>Electrochemistry Communications</i> , 2009, 11, 969-973.	4.7	45
158	Optical and structural properties of nanostructured CeO ₂ :Tb ³⁺ film. <i>Journal of Alloys and Compounds</i> , 2011, 509, 262-265.	5.5	45
159	Biofunctionalized tungsten trioxide-reduced graphene oxide nanocomposites for sensitive electrochemical immunosensing of cardiac biomarker. <i>Journal of Alloys and Compounds</i> , 2018, 763, 102-110.	5.5	45
160	Some recent studies on metal/polyaniline schottky devices. <i>Journal of Applied Polymer Science</i> , 1992, 44, 911-915.	2.6	44
161	Bismuth oxide nanorods based immunosensor for mycotoxin detection. <i>Materials Science and Engineering C</i> , 2017, 70, 564-571.	7.3	44
162	DNA entrapped polypyrrole-polyvinyl sulfonate film for application to electrochemical biosensor. <i>Analytical Biochemistry</i> , 2007, 366, 71-79.	2.4	43

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163	Molecularly imprinted polyaniline-polyvinyl sulphonic acid composite based sensor for para-nitrophenol detection. <i>Analytica Chimica Acta</i> , 2013, 777, 63-71.	5.4	43
164	Low Density Lipoprotein Detection Based on Antibody Immobilized Self-Assembled Monolayer: Investigations of Kinetic and Thermodynamic Properties. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14405-14412.	2.6	42
165	Electrical properties of metal (indium)/polyaniline Schottky devices. <i>Journal of Applied Polymer Science</i> , 1997, 65, 2745-2748.	2.6	41
166	A novel urea biosensor based on zirconia. <i>Thin Solid Films</i> , 2010, 519, 1187-1191.	1.8	41
167	Zirconia grafted carbon nanotubes based biosensor for <i>M. Tuberculosis</i> detection. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	41
168	PEDOT:PSS/PVA Nanofibers Decorated Conducting Paper for Cancer Diagnostics. <i>Advanced Materials Technologies</i> , 2016, 1, 1600056.	5.8	41
169	Poly-3-hexyl thiophene Langmuir-Blodgett films for application to glucose biosensor. <i>Biotechnology and Bioengineering</i> , 2004, 85, 277-282.	3.3	40
170	Self-assembled monolayer for toxicant detection using nucleic acid sensor based on surface plasmon resonance technique. <i>Biomedical Microdevices</i> , 2008, 10, 757-767.	2.8	40
171	Polyaniline/carbon nanotubes platform for sexually transmitted disease detection. <i>Journal of Molecular Recognition</i> , 2010, 23, 472-479.	2.1	40
172	Electrophoretically deposited CdS quantum dots based electrode for biosensor application. <i>Journal of Materials Chemistry</i> , 2012, 22, 4970.	6.7	40
173	Protein Conjugated Quantum Dots Interface: Binding Kinetics and Label-Free Lipid Detection. <i>Analytical Chemistry</i> , 2014, 86, 1710-1718.	6.5	40
174	Carbon nanotubes chitosan nanobiocomposite for immunosensor. <i>Thin Solid Films</i> , 2010, 519, 1160-1166.	1.8	39
175	Application of poly(aniline) as a glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 1994, 21, 165-169.	7.8	38
176	Nucleic acid immobilized polypyrrole polyvinylsulphonate film for <i>Mycobacterium tuberculosis</i> detection. <i>Electrochemistry Communications</i> , 2008, 10, 821-826.	4.7	38
177	Polyaniline-Cerium Oxide Nanocomposite for Hydrogen Peroxide Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4679-4685.	0.9	38
178	A self assembled monolayer based microfluidic sensor for urea detection. <i>Nanoscale</i> , 2011, 3, 2971.	5.6	38
179	Application of polyaniline as enzyme based biosensor. <i>Current Applied Physics</i> , 2005, 5, 174-177.	2.4	37
180	Electrochemical piezoelectric reusable immunosensor for aflatoxin B1 detection. <i>Biochemical Engineering Journal</i> , 2015, 103, 103-113.	3.6	37

#	ARTICLE	IF	CITATIONS
181	A chitosan modified nickel oxide platform for biosensing applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6698-6708.	5.8	37
182	Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 82-91.	7.8	37
183	Protein functionalised self assembled monolayer based biosensor for colon cancer detection. <i>Talanta</i> , 2019, 201, 465-473.	5.5	37
184	Immobilization of glucose oxidase onto Langmuir-Blodgett films of poly-3-hexylthiophene. <i>Current Applied Physics</i> , 2003, 3, 275-279.	2.4	36
185	Electrophoretically deposited nano-structured polyaniline film for glucose sensing. <i>Thin Solid Films</i> , 2010, 519, 1145-1150.	1.8	36
186	Phase control of nanostructured iron oxide for application to biosensor. <i>Journal of Materials Chemistry B</i> , 2013, 1, 464-474.	5.8	36
187	Mesoporous silica particle embedded functional graphene oxide as an efficient platform for urea biosensing. <i>Analytical Methods</i> , 2014, 6, 6711-6720.	2.7	36
188	Nanomaterials based biosensors for cancer biomarker detection. <i>Journal of Physics: Conference Series</i> , 2016, 704, 012011.	0.4	36
189	A biocompatible serine functionalized nanostructured zirconia based biosensing platform for non-invasive oral cancer detection. <i>RSC Advances</i> , 2016, 6, 77037-77046.	3.6	36
190	Electrochemical genosensor based on carboxylated graphene for detection of water-borne pathogen. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 312-321.	7.8	36
191	A hollow-nanosphere-based microfluidic biosensor for biomonitoring of cardiac troponin I. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3826-3839.	5.8	36
192	Dual-modality microfluidic biosensor based on nanoengineered mesoporous graphene hydrogels. <i>Lab on A Chip</i> , 2020, 20, 760-777.	6.0	36
193	Thermal analysis of chemically synthesized polyemeraldine base. <i>Journal of Applied Polymer Science</i> , 2000, 75, 149-155.	2.6	35
194	Fumed silica nanoparticles-chitosan nanobiocomposite for ochratoxin-A detection. <i>Electrochemistry Communications</i> , 2009, 11, 1919-1923.	4.7	35
195	Self-assembled monolayer based impedimetric platform for food borne mycotoxin detection. <i>Nanoscale</i> , 2010, 2, 2811.	5.6	35
196	Biofunctionalized graphene oxide wrapped carbon nanotubes enabled microfluidic immuno chip for bacterial cells detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2495-2503.	7.8	35
197	Recent Advances of Conducting Polymers and Their Composites for Electrochemical Biosensing Applications. <i>Journal of Functional Biomaterials</i> , 2020, 11, 71.	4.4	35
198	Dielectric relaxation in thin conducting polyaniline films. <i>Polymer</i> , 1998, 39, 3399-3404.	3.8	34

#	ARTICLE	IF	CITATIONS
199	Polypyrrole/multiwalled carbon nanotubes-based biosensor for cholesterol estimation. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1084-1091.	3.2	34
200	Performance of electrochromic cells of polyaniline in polymeric electrolytes. <i>Journal of Materials Science Letters</i> , 1994, 13, 1490-1493.	0.5	33
201	Sol-gel-derived titanium oxide-cerium oxide biocompatible nanocomposite film for urea sensor. <i>Journal of Materials Research</i> , 2009, 24, 1667-1673.	2.6	33
202	Biocompatible self-assembled monolayer platform based on (3-glycidoxypropyl)trimethoxysilane for total cholesterol estimation. <i>Analytical Methods</i> , 2011, 3, 2237.	2.7	33
203	Biocompatible nanostructured magnesium oxide-chitosan platform for genosensing application. <i>Biosensors and Bioelectronics</i> , 2013, 45, 181-188.	10.1	33
204	Quantum dot monolayer for surface plasmon resonance signal enhancement and DNA hybridization detection. <i>Biosensors and Bioelectronics</i> , 2016, 80, 477-482.	10.1	33
205	Hybrid Cross-Linked Polyaniline-WO ₃ Nanocomposite Thin Film for NO _x Gas Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1792-1796.	0.9	32
206	Functionalized Gold Nanoparticles Octadecylamine Hybrid Langmuir-Blodgett Film for Enzyme Sensor. <i>Electroanalysis</i> , 2009, 21, 1587-1596.	2.9	32
207	Zinc oxide-potassium ferricyanide composite thin film matrix for biosensing applications. <i>Analytica Chimica Acta</i> , 2009, 653, 212-216.	5.4	32
208	Electrochemical genosensor based on modified octadecanethiol self-assembled monolayer for Escherichia coli detection. <i>Sensors and Actuators B: Chemical</i> , 2011, 151, 333-340.	7.8	32
209	Microstructured Cystine Dendrites-Based Impedimetric Sensor for Nucleic Acid Detection. <i>Biomacromolecules</i> , 2011, 12, 2925-2932.	5.4	31
210	A surface functionalized nanoporous titania integrated microfluidic biochip. <i>Nanoscale</i> , 2014, 6, 13958-13969.	5.6	31
211	Immobilization and Characterization of Lactate Dehydrogenase on TEOS Derived Sol-Gel Films. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 10, 309-316.	2.4	30
212	Quantum Dots Self Assembly Based Interface for Blood Cancer Detection. <i>Langmuir</i> , 2013, 29, 8753-8762.	3.5	30
213	Protein functionalized nanostructured zirconia based electrochemical immunosensor for cardiac troponin I detection. <i>Journal of Materials Research</i> , 2017, 32, 2966-2972.	2.6	30
214	Graphene oxide-metal nanocomposites for cancer biomarker detection. <i>RSC Advances</i> , 2017, 7, 35982-35991.	3.6	30
215	Electrochemical copolymerization and doping of phenylene oxide-pyrrole: A new conducting polymer. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1985, 23, 57-61.	0.4	29
216	Polyaniline-Carboxymethyl Cellulose Nanocomposite for Cholesterol Detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6479-6488.	0.9	29

#	ARTICLE	IF	CITATIONS
217	Production and Optimization of Physicochemical Parameters of Cellulase Using Untreated Orange Waste by Newly Isolated <i>Emericella varicolor</i> NS3. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 601-612.	2.9	29
218	Emerging Trends in Microfluidics Based Devices. <i>Biotechnology Journal</i> , 2020, 15, e1900279.	3.5	29
219	Enhanced loading of glucose oxidase on polyaniline films based on anion exchange. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1447-1453.	2.6	28
220	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3999-4006.	2.6	28
221	DNA biosensor for detection of <i>Neisseria gonorrhoeae</i> causing sexually transmitted disease. <i>Journal of Biotechnology</i> , 2010, 150, 357-365.	3.8	27
222	Mediator-free biosensor using chitosan capped CdS quantum dots for detection of total cholesterol. <i>RSC Advances</i> , 2015, 5, 45928-45934.	3.6	27
223	Interfacial polarization in semiconducting polypyrrole thin films. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5747-5756.	1.8	26
224	Dithiobissuccinimidyl propionate self assembled monolayer based cholesterol biosensor. <i>Analyst</i> , The, 2007, 132, 1005.	3.5	26
225	Biofunctionalized nanostructured tungsten trioxide based sensor for cardiac biomarker detection. <i>Materials Letters</i> , 2017, 186, 202-205.	2.6	26
226	Biofunctionalized Nanostructured Yttria Modified Non-Invasive Impedometric Biosensor for Efficient Detection of Oral Cancer. <i>Nanomaterials</i> , 2019, 9, 1190.	4.1	26
227	Electrochemical characterization of self-assembled monolayers (SAMs) of thiophenol and aminothiophenols on polycrystalline Au: Effects of potential cycling and mixed SAM formation. <i>Journal of Electroanalytical Chemistry</i> , 2008, 619-620, 87-97.	3.8	25
228	Peptide Nucleic Acid Immobilized Biocompatible Silane Nanocomposite Platform for <i>Mycobacterium tuberculosis</i> Detection. <i>Electroanalysis</i> , 2010, 22, 2672-2682.	2.9	25
229	Facile synthesis of 2-dimensional transparent graphene flakes for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 281-289.	7.8	25
230	Quantum dot-based microfluidic biosensor for cancer detection. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	25
231	Exploring <i>Providencia rettgeri</i> for application to eco-friendly paper based microbial fuel cell. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112323.	10.1	25
232	Langmuir-Blodgett film based on MEH-PPV for cholesterol biosensor. <i>Analytica Chimica Acta</i> , 2009, 634, 243-249.	5.4	24
233	Horse radish peroxidase immobilized polyaniline for hydrogen peroxide sensor. <i>Polymers for Advanced Technologies</i> , 2011, 22, 903-908.	3.2	24
234	Chitosan-Modified Carbon Nanotubes-Based Platform for Low-Density Lipoprotein Detection. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 926-935.	2.9	24

#	ARTICLE	IF	CITATIONS
235	Reduced graphene oxide-titania based platform for label-free biosensor. RSC Advances, 2014, 4, 60386-60396.	3.6	24
236	Controlled deposition of functionalized silica coated zinc oxide nano-assemblies at the air/water interface for blood cancer detection. Analytica Chimica Acta, 2016, 937, 29-38.	5.4	24
237	Ultrasensitive biosensing platform based on yttria doped zirconia-reduced graphene oxide nanocomposite for detection of salivary oral cancer biomarker. Bioelectrochemistry, 2021, 140, 107799.	4.6	24
238	Application of conducting poly(aniline-co-pyrrole) film to cholesterol biosensor. Journal of Applied Polymer Science, 2007, 105, 3211-3219.	2.6	23
239	Cationic poly(lactic-co-glycolic acid) iron oxide microspheres for nucleic acid detection. Nanoscale, 2013, 5, 3800.	5.6	23
240	Polyaniline modified flexible conducting paper for cancer detection. Applied Physics Letters, 2016, 108, .	3.3	23
241	Nanomaterial-Modified Conducting Paper: Fabrication, Properties, and Emerging Biomedical Applications. Global Challenges, 2019, 3, 1900041.	3.6	23
242	Photocarrier mobility in processable polyaniline. Journal of Applied Physics, 1993, 74, 2109-2111.	2.5	22
243	Preparation and characterization of bio-functionalized iron oxide nanoparticles for biomedical application. Thin Solid Films, 2010, 519, 1219-1223.	1.8	22
244	A biofunctionalized quantum dot-nickel oxide nanorod based smart platform for lipid detection. Journal of Materials Chemistry B, 2016, 4, 2706-2714.	5.8	22
245	Immobilization of Lactate Dehydrogenase on Tetraethylorthosilicate-Derived Sol-Gel Films for Application to Lactate Biosensor. Applied Biochemistry and Biotechnology, 2001, 96, 303-312.	2.9	21
246	Conducting polymer based biomolecular electronic devices. Pramana - Journal of Physics, 2003, 61, 331-343.	1.8	21
247	Biosensor for total cholesterol estimation using N-(2-aminoethyl)-3-aminopropyltrimethoxysilane self-assembled monolayer. Analytical and Bioanalytical Chemistry, 2007, 389, 2235-2242.	3.7	21
248	Polyaniline-based biosensors. Nanobiosensors in Disease Diagnosis, 0, , 25.	0.0	21
249	Antibody conjugated metal nanoparticle decorated graphene sheets for a mycotoxin sensor. RSC Advances, 2016, 6, 56518-56526.	3.6	21
250	Preparation and characterization of an enzyme electrode based on cholesterol esterase and cholesterol oxidase immobilized onto conducting polypyrrole films. Journal of Applied Polymer Science, 2004, 91, 3769-3773.	2.6	20
251	Poly (pyrrole-co-N-methyl pyrrole) for application to cholesterol sensor. Journal of Materials Science, 2009, 44, 954-961.	3.7	20
252	Graphitic carbon nitride-based nanoplatfoms for biosensors: design strategies and applications. Materials Today Chemistry, 2022, 24, 100770.	3.5	20

#	ARTICLE	IF	CITATIONS
253	Muon studies of conducting polymers. <i>Synthetic Metals</i> , 1993, 55, 677-684.	3.9	19
254	Influence of pH on the electroactivity of polycarbazole. <i>Materials Science and Engineering C</i> , 1995, 3, 215-218.	7.3	19
255	Biosensor based on Langmuir-Blodgett films of poly(3-hexyl thiophene) for detection of galactose in human blood. <i>Biotechnology Letters</i> , 2004, 26, 645-647.	2.2	19
256	Fabrication of Neisseria gonorrhoeae biosensor based on chitosan-MWCNT platform. <i>Thin Solid Films</i> , 2010, 519, 1135-1140.	1.8	19
257	Mediator free cholesterol biosensor based on self-assembled monolayer platform. <i>Analyst</i> , 2012, 137, 747-753.	3.5	19
258	Quantum dots based platform for application to fish freshness biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 627-633.	7.8	19
259	Magnesium oxide grafted carbon nanotubes based impedimetric genosensor for biomedical application. <i>Biosensors and Bioelectronics</i> , 2013, 50, 406-413.	10.1	19
260	Enhancing Performance of Uricase Using Multiwalled Carbon Nanotube Doped Polyaniline. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1174-1187.	2.9	19
261	Conducting paper based sensor for cancer biomarker detection. <i>Journal of Physics: Conference Series</i> , 2016, 704, 012010.	0.4	19
262	In-situ electrosynthesized nanostructured Mn ₃ O ₄ -polyaniline nanofibers- biointerface for endocrine disrupting chemical detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 781-793.	7.8	19
263	Novel electrochromism phenomenon observed in polyaniline films. <i>Synthetic Metals</i> , 1995, 75, 119-122.	3.9	18
264	Polythiophene gold nanoparticles composite film for application to glucose sensor. <i>Journal of Applied Polymer Science</i> , 2008, 110, 988-994.	2.6	18
265	Sol-Gel Derived Nanostructured Metal Oxide Platform for Bacterial Detection. <i>Electroanalysis</i> , 2011, 23, 2699-2708.	2.9	18
266	Highly sensitive biofunctionalized nickel oxide nanowires for nanobiosensing applications. <i>RSC Advances</i> , 2013, 3, 16060.	3.6	18
267	Bioinspired synthesis of iron-based nanomaterials for application in biofuels production: A new in-sight. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111206.	16.4	18
268	Electroactivity and proton doping of polycarbazole. <i>Journal of Materials Science Letters</i> , 1995, 14, 401-404.	0.5	18
269	Dielectric spectroscopic studies on polypyrrole glucose oxidase films. <i>Journal of Applied Polymer Science</i> , 1996, 60, 2309-2316.	2.6	17
270	Synthesis and Characterization of Fluoro-Substituted Polyaniline. <i>Applied Biochemistry and Biotechnology</i> , 2001, 96, 155-166.	2.9	17

#	ARTICLE	IF	CITATIONS
271	Surface plasmon resonance-based DNA biosensor for arsenic trioxide detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 49-57.	3.3	17
272	Ion exchanged polypyrrole-based glucose biosensor: Enhanced loading and response. <i>Electroanalysis</i> , 1995, 7, 579-582.	2.9	16
273	Electrical properties of metal/Langmuir-Blodgett (polymeraldine base) layer/metal devices. <i>Journal of Applied Polymer Science</i> , 1997, 63, 141-145.	2.6	16
274	Application of Polyaniline/Sol-Gel Derived Tetraethylorthosilicate Films to an Amperometric Lactate Biosensor. <i>Analytical Sciences</i> , 2003, 19, 1477-1480.	1.6	16
275	Nanostructured nickel oxide film for application to fish freshness biosensor. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	16
276	Nanostructured platform for the detection of <i>Neisseria gonorrhoeae</i> using electrochemical impedance spectroscopy and differential pulse voltammetry. <i>Mikrochimica Acta</i> , 2012, 177, 201-210.	5.0	16
277	A Label-Free Photoluminescence Genosensor Using Nanostructured Magnesium Oxide for Cholera Detection. <i>Scientific Reports</i> , 2015, 5, 17384.	3.3	16
278	Multi-organ on a chip for personalized precision medicine. <i>MRS Communications</i> , 2018, 8, 652-667.	1.8	16
279	Nanostructured conducting polymer based reagentless capacitive immunosensor. <i>Biomedical Microdevices</i> , 2010, 12, 63-70.	2.8	15
280	Langmuir-Blodgett films of polyaniline for low density lipoprotein detection. <i>Thin Solid Films</i> , 2010, 519, 1110-1114.	1.8	15
281	Optical and electro-catalytic studies of nanostructured thulium oxide for vitamin C detection. <i>Journal of Alloys and Compounds</i> , 2013, 578, 405-412.	5.5	15
282	Biosensors for Food Toxin Detection: Carbon Nanotubes and Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1725, 24.	0.1	15
283	Excellent storage stability and sensitive detection of neurotoxin quinolinic acid. <i>Biosensors and Bioelectronics</i> , 2017, 90, 224-229.	10.1	15
284	Nucleic acid sensor for insecticide detection. <i>Journal of Molecular Recognition</i> , 2008, 21, 217-223.	2.1	14
285	Optical and electrical characteristics of electrodeposited polypyrrole films. <i>Journal of Applied Polymer Science</i> , 1993, 50, 411-417.	2.6	13
286	Immobilization of glucose oxidase in electrochemically prepared polypyrrole films. <i>Journal of Materials Science Letters</i> , 1996, 15, 124-128.	0.5	13
287	Self-assembled monolayer for low density lipoprotein detection. <i>Journal of Molecular Recognition</i> , 2008, 21, 419-424.	2.1	13
288	Self-assembled monolayer based electrochemical nucleic acid sensor for <i>Vibrio cholerae</i> detection. <i>Journal of Physics: Conference Series</i> , 2012, 358, 012009.	0.4	13

#	ARTICLE	IF	CITATIONS
289	Electrochemical Urea Biosensor Based on Sol-gel Derived Nanostructured Cerium Oxide. Journal of Physics: Conference Series, 2012, 358, 012006.	0.4	13
290	Nanostructured magnesium oxide biosensing platform for cholera detection. Applied Physics Letters, 2013, 102, 144106.	3.3	13
291	Coupling electrochemical response of a DNA biosensor with PCR for Neisseria gonorrhoeae detection. Diagnostic Microbiology and Infectious Disease, 2014, 78, 16-23.	1.8	13
292	Sol-gel Derived Nanostructured Tin Oxide Film for Glucose Sensor. Sensor Letters, 2009, 7, 64-71.	0.4	13
293	Time-of-Flight Photocarrier Mobility in Langmuir-Blodgett Films of Regioregular Poly(3-hexylthiophene). Japanese Journal of Applied Physics, 1999, 38, 6768-6771.	1.5	12
294	Electrophoretically deposited polyaniline nanotubes based film for cholesterol detection. Electrophoresis, 2010, 31, 3754-3762.	2.4	12
295	Opportunities in nano-structured metal oxides based biosensors. Journal of Physics: Conference Series, 2012, 358, 012007.	0.4	12
296	Electrophoretically fabricated core-shell CNT-DNA biowires for biosensing. Journal of Materials Chemistry, 2012, 22, 2727-2732.	6.7	12
297	Nanoengineered Conductive Polyaniline Enabled Sensor for Sensitive Humidity Detection. IEEE Sensors Journal, 2020, 20, 12574-12581.	4.7	12
298	Polycarbazole film-coated electrodes as electrochromic devices. Advanced Materials for Optics and Electronics, 1996, 6, 399-402.	0.4	11
299	Preparation and characterization of Langmuir-Blodgett films of polyemeraldine base. Polymer, 1996, 37, 4809-4813.	3.8	11
300	Characterization of DNA Immobilized on Electrochemically Prepared Conducting Polypyrrole - Polyvinyl Sulfonate Films. Applied Biochemistry and Biotechnology, 2001, 96, 313-320.	2.9	11
301	An emerging nanostructured molybdenum trioxide-based biocompatible sensor platform for breast cancer biomarker detection. MRS Communications, 2018, 8, 668-679.	1.8	11
302	Electrical properties of metal/Langmuir-Blodgett layer/semiconductive devices. Journal of Applied Polymer Science, 1996, 60, 407-411.	2.6	10
303	Electrochromic response of thin polypyrrole film in semi-solid electrolyte. Journal of Materials Science Letters, 1996, 15, 997.	0.5	10
304	Low density lipoprotein sensor based on surface plasmon resonance. Thin Solid Films, 2009, 518, 719-723.	1.8	10
305	Electrochemical studies of cystine modified self-assembled monolayer for Escherichia coli detection. Thin Solid Films, 2010, 519, 1178-1183.	1.8	10
306	Functionalized Carbon Nanomaterials for Biosensors. , 2018, , 75-103.		10

#	ARTICLE	IF	CITATIONS
307	AC conductivity of polyemeraldine base. Journal of Physics Condensed Matter, 1994, 6, 8913-8922.	1.8	9
308	Simulation of Electrochemical Process for Glucose Oxidase Immobilized Conducting Polymer Electrodes. Analytical Letters, 1996, 29, 1477-1484.	1.8	9
309	Aptamer based electrochemical sensor for detection of human lung adenocarcinoma A549 cells. Journal of Physics: Conference Series, 2012, 358, 012001.	0.4	9
310	TCAD Analysis and Simulation of Double Metal Negative Capacitance FET (DM NCFET). , 2021, , .		9
311	Defects in conducting polymers. Bulletin of Materials Science, 1988, 10, 85-96.	1.7	8
312	Thiol Modified Chitosan Self-Assembled Monolayer Platform for Nucleic Acid Biosensor. Applied Biochemistry and Biotechnology, 2014, 174, 1201-1213.	2.9	8
313	Nanocomposite Materials. , 2018, , 145-159.		8
314	Emerging DNA-based multifunctional nano-biomaterials towards electrochemical sensing applications. Nanoscale, 2021, 13, 10305-10319.	5.6	8
315	Chapter 3 Electrochemical biosensors. Advances in Biosensors, 2003, , 63-100.	0.2	8
316	Biofunctionalized nanodot zirconia-based efficient biosensing platform for noninvasive oral cancer detection. MRS Communications, 2020, 10, 652-659.	1.8	8
317	Analog/RF Performance and Effect of Temperature on Ferroelectric Layer Improved FET device with Spacer. Silicon, 2022, 14, 12269-12280.	3.3	8
318	Sol-gel derived cerium-oxide-silicon-oxide nanocomposite for cypermethrin detection. Thin Solid Films, 2010, 519, 1122-1127.	1.8	7
319	Impedance spectroscopic study of biofilm formation on pencil lead graphite anode in microbial fuel cell. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 114-123.	5.3	7
320	A Numerical Study of Analog Parameter of Negative Capacitance Field Effect Transistor with Spacer. , 2021, , .		6
321	Detection of biomolecules in dielectric modulated double metal below ferroelectric layer FET with improved sensitivity. Journal of Materials Science: Materials in Electronics, 2022, 33, 13558-13567.	2.2	6
322	Is the glass transition in some super-cooled polyphenyls preceded by molecular cluster formation?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 153-156.	2.1	5
323	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. Journal of Applied Polymer Science, 2004, 92, 1374-1374.	2.6	4
324	PLD grown ZnO-K ₃ [Fe(CN) ₆] composite thin film for biosensing application. Thin Solid Films, 2010, 519, 1184-1186.	1.8	4

#	ARTICLE	IF	CITATIONS
325	Covalent immobilization of urease on polypyrrole microspheres for application as a urea biosensor. <i>E-Polymers</i> , 2002, 2, .	3.0	3
326	An experimental set-up for the study of electromechanical properties of conducting polymer films. <i>Current Applied Physics</i> , 2003, 3, 317-320.	2.4	3
327	Sol-gel Derived Nanostructured Zirconia Platform for Vitamin C Detection. <i>Journal of the Electrochemical Society</i> , 2013, 160, H93-H97.	2.9	3
328	Biopolymeric Nanostructures. , 2018, , 127-144.		3
329	A Chemosensor Based on Gold Nanoparticles and Dithiothreitol (DTT) for Acrylamide Electroanalysis. <i>Nanomaterials</i> , 2021, 11, 2610.	4.1	3
330	Immobilization of lactate dehydrogenase on tetraethylorthosilicate-derived sol-gel films for application to lactate biosensor. <i>Applied Biochemistry and Biotechnology</i> , 2001, 96, 293-301.	2.9	3
331	CeO ₂ thin film for mediator-less glucose biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1138, 1.	0.1	2
332	Bioconjugated Nanostructured Metals and Metal Oxides for Biosensors. , 2018, , 105-125.		1
333	Characteristics of aqueous polycarbazole batteries. , 1999, 74, 145.		1
334	Chapter 4 Diagnostics applications of enzyme-doped sol-gel derived glasses. <i>Advances in Biosensors</i> , 2003, , 101-130.	0.2	1
335	Conducting Polymer Based Nucleic Acid Sensor for Environment Monitoring. <i>IEICE Transactions on Electronics</i> , 2008, E91-C, 1889-1893.	0.6	1
336	Self-Assembled Monolayer Based Nucleic Acid Sensor for <i>M. Tuberculosis</i> Detection. <i>Sensor Letters</i> , 2011, 9, 499-506.	0.4	1
337	Linearity Performance of Double Metal Negative Capacitance Field-Effect Transistors: A Numerical Study. , 2022, , .		1
338	Special Issue on Biomolecular Electronics - Interfacing Physics and Chemistry with Biology. <i>Applied Biochemistry and Biotechnology</i> , 2001, 96, 001-002.	2.9	0
339	National Symposium on Biomolecular Electronics - Interfacing Physics and Chemistry with Biology. <i>Applied Biochemistry and Biotechnology</i> , 2001, 96, 003-008.	2.9	0
340	P4-S1.02 Coupling of electrochemical detection with PCR amplification for sensitive detection of <i>Neisseria gonorrhoeae</i> . <i>Sexually Transmitted Infections</i> , 2011, 87, A307-A307.	1.9	0
341	Fabrication of nanocrystalline CdS electrode via chemical bath deposition technique for application to cholesterol sensor. <i>Journal of Physics: Conference Series</i> , 2012, 358, 012008.	0.4	0
342	Preface. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 867-868.	2.9	0

#	ARTICLE	IF	CITATIONS
343	Nanostructured Materials for DNA Biochip. , 2018, , 221-262.		0
344	Nanobioelectrochemistry: Fundamentals and biosensor applications. Frontiers of Nanoscience, 2021, , 87-128.	0.6	0
345	Metal/Semiconducting Polyaniline Heterojunctions. , 1991, , 401-405.		0