Bansi D Malhotra

List of Publications by Citations

340 papers	19,458 citations	74 h-index	122 g-index
354 ext. papers	21,241 ext. citations	5.7 avg, IF	6.99 L-index

#	Paper	IF	Citations
340	Application of conducting polymers to biosensors. *Biosensors and Bioelectronics*, **2002**, 17, 345-59	11.8	1296
339	Mediated biosensors. *Biosensors and Bioelectronics*, **2002**, 17, 441-56	11.8	601
338	Nanostructured metal oxide-based biosensors. *NPG Asia Materials*, **2011**, 3, 17-24	10.3	500
337	Recent advances in polyaniline based biosensors. *Biosensors and Bioelectronics*, **2011**, 26, 2811-21	11.8	386
336	Iron oxide nanoparticles-chitosan composite based glucose biosensor. *Biosensors and Bioelectronics*, **2008**, 24, 676-83	11.8	376
335	Organic-inorganic hybrid nanocomposite-based gas sensors for environmental monitoring. *Chemical Reviews*, **2015**, 115, 4571-606	68.1	341
334	Prospects of conducting polymers in biosensors. *Analytica Chimica Acta*, **2006**, 578, 59-74	6.6	318
333	Glucose Biosensor Based on a Sol-Gel-Derived Platform. *Analytical Chemistry*, **1994**, 66, 3139-3144	7.8	232
332	Prospects of conducting polymers in molecular electronics. *Current Applied Physics*, **2003**, 3, 293-305	2.6	229
331	Zinc oxide nanoparticles-chitosan composite film for cholesterol biosensor. *Analytica Chimica Acta*, **2008**, 616, 207-13	6.6	217
330	Application of thiolated gold nanoparticles for the enhancement of glucose oxidase activity. *Langmuir*, **2007**, 23, 3333-7	4	214
329	Cholesterol biosensor based on rf sputtered zinc oxide nanoporous thin film. *Applied Physics Letters*, **2007**, 91, 063901	3.4	210
328	Biosensors for clinical diagnostics industry. *Sensors and Actuators B: Chemical*, **2003**, 91, 117-127	8.5	209
327	Recent advances in cholesterol biosensor. *Biosensors and Bioelectronics*, **2008**, 23, 1083-100	11.8	197
326	Sol-gel derived nanoporous cerium oxide film for application to cholesterol biosensor. *Electrochemistry Communications*, **2008**, 10, 1246-1249	5.1	182
325	Recent advances in mycotoxins detection. *Biosensors and Bioelectronics*, **2016**, 81, 532-545	11.8	178
324	Iron oxide-chitosan nanobiocomposite for urea sensor. *Sensors and Actuators B: Chemical*, **2009**, 138, 572-580	8.5	175

323	Recent advances in self-assembled monolayers based biomolecular electronic devices. *Biosensors and Bioelectronics*, **2009**, 24, 2810-7	11.8	175
322	Cholesterol biosensor based on cholesterol esterase, cholesterol oxidase and peroxidase immobilized onto conducting polyaniline films. *Sensors and Actuators B: Chemical*, **2006**, 115, 534-541	8.5	169
321	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 Escherichia coli O157:H7. *Mikrochimica Acta*, **2019**, 187, 1	5.8	159
320	Recent developments in urea biosensors. *Biochemical Engineering Journal*, **2009**, 44, 42-52	4.2	155
319	Recent advances in carbon based nanosystems for cancer theranostics. *Biomaterials Science*, **2017**, 5, 901-952	7.4	139
318	Prospects of Nanomaterials in Biosensors. *Analytical Letters*, **2008**, 41, 159-209	2.2	137
317	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. *Nanoscale*, **2013**, 5, 3043-51	7.7	136
316	Amperometric cholesterol biosensor based on immobilized cholesterol esterase and cholesterol oxidase on conducting polypyrrole films. *Analytica Chimica Acta*, **2004**, 502, 229-234	6.6	130
315	Metal/semiconductive polymer Schottky device. *Applied Physics Letters*, **1991**, 58, 51-52	3.4	126
314	Polyaniline-carbon nanotube composite film for cholesterol biosensor. *Analytical Biochemistry*, **2008**, 383, 194-9	3.1	125
313	Microfluidics Based Point-of-Care Diagnostics. *Biotechnology Journal*, **2018**, 13, 1700047	5.6	125
312	Nanostructured zirconia decorated reduced graphene oxide based efficient biosensing platform for non-invasive oral cancer detection. *Biosensors and Bioelectronics*, **2016**, 78, 497-504	11.8	122
311	Synthesis and characterization of poly(aniline-co-o-anisidine). A processable conducting copolymer. *Macromolecules*, **1993**, 26, 3190-3193	5.5	122
310	Biosensors for pathogen detection: A smart approach towards clinical diagnosis. *Sensors and Actuators B: Chemical*, **2014**, 197, 385-404	8.5	120
309	Antibody immobilized cysteamine functionalized-gold nanoparticles for aflatoxin detection. *Thin Solid Films*, **2010**, 519, 1213-1218	2.2	120
308	Sol-gel derived nanostructured cerium oxide film for glucose sensor. *Applied Physics Letters*, **2008**, 92, 263901	3.4	119
307	Co-immobilization of cholesterol oxidase and horseradish peroxidase in a sol gel film. *Analytica Chimica Acta*, **2000**, 414, 43-50	6.6	117
306	Hydrogen peroxide sensor based on horseradish peroxidase immobilized nanostructured cerium oxide film. *Journal of Biotechnology*, **2009**, 142, 179-84	3.7	116

305	Chitosan–iron oxide nanobiocomposite based immunosensor for ochratoxin-A. *Electrochemistry Communications*, **2008**, 10, 1364-1368	5.1	115
304	Reduced graphene oxide modified smart conducting paper for cancer biosensor. *Biosensors and Bioelectronics*, **2015**, 73, 114-122	11.8	114
303	Covalent immobilization of cholesterol esterase and cholesterol oxidase on polyaniline films for application to cholesterol biosensor. *Analytica Chimica Acta*, **2006**, 568, 126-32	6.6	114
302	Microfluidic-integrated biosensors: prospects for point-of-care diagnostics. *Biotechnology Journal*, **2013**, 8, 1267-79	5.6	113
301	Preparation of polyaniline/multiwalled carbon nanotube composite by novel electrophoretic route. *Carbon*, **2008**, 46, 1727-1735	10.4	112
300	Nanostructured zinc oxide platform for mycotoxin detection. *Bioelectrochemistry*, **2010**, 77, 75-81	5.6	111
299	Highly sensitive biofunctionalized mesoporous electrospun TiO(2) nanofiber based interface for biosensing. *ACS Applied Materials & Interfaces*, **2014**, 6, 2516-27	9.5	109
298	Multi-walled carbon nanotubes/sol–gel-derived silica/chitosan nanobiocomposite for total cholesterol sensor. *Sensors and Actuators B: Chemical*, **2009**, 137, 727-735	8.5	109
297	Carboxylated multiwalled carbon nanotubes based biosensor for aflatoxin detection. *Sensors and Actuators B: Chemical*, **2013**, 185, 258-264	8.5	106
296	Application of electrochemically prepared polypyrrole-polyvinyl sulphonate films to DNA biosensor. *Biosensors and Bioelectronics*, **2006**, 21, 1777-83	11.8	106
295	Cholesterol biosensor based on electrophoretically deposited conducting polymer film derived from nano-structured polyaniline colloidal suspension. *Analytica Chimica Acta*, **2007**, 602, 244-51	6.6	105
294	Recent trends in biosensors. *Current Applied Physics*, **2005**, 5, 92-97	2.6	105
293	Immobilization of cholesterol oxidase and potassium ferricyanide on dodecylbenzene sulfonate ion-doped polypyrrole film. *Journal of Applied Polymer Science*, **2001**, 82, 3486-3491	2.9	104
292	Nanoporous cerium oxide thin film for glucose biosensor. *Biosensors and Bioelectronics*, **2009**, 24, 2040-5	11.8	103
291	Co-immobilization of lactate oxidase and lactate dehydrogenase on conducting polyaniline films. *Analytica Chimica Acta*, **2000**, 407, 97-103	6.6	101
290	Cell-based biosensors: Recent trends, challenges and future perspectives. *Biosensors and Bioelectronics*, **2019**, 141, 111435	11.8	99
289	Cholesterol biosensor based on N-(2-aminoethyl)-3-aminopropyl-trimethoxysilane self-assembled monolayer. *Analytical Biochemistry*, **2007**, 363, 210-8	3.1	95
288	A nanostructured cerium oxide film-based immunosensor for mycotoxin detection. *Nanotechnology*, **2009**, 20, 055105	3.4	94

287	Nanostructured zinc oxide platform for cholesterol sensor. *Applied Physics Letters*, **2009**, 94, 143901	3.4	91
286	Polyaniline Langmuir-Blodgett film based aptasensor for ochratoxin A detection. *Biosensors and Bioelectronics*, **2011**, 26, 4006-11	11.8	90
285	Zinc oxide-chitosan nanobiocomposite for urea sensor. *Applied Physics Letters*, **2008**, 93, 163903	3.4	90
284	Covalent immobilization of glucose oxidase to poly(O-amino benzoic acid) for application to glucose biosensor. *Journal of Applied Polymer Science*, **2000**, 78, 662-667	2.9	90
283	Nanostructured nickel oxide-chitosan film for application to cholesterol sensor. *Applied Physics Letters*, **2011**, 98, 123702	3.4	89
282	Polyaniline Langmuir-Blodgett film based cholesterol biosensor. *Langmuir*, **2007**, 23, 13188-92	4	89
281	Nanostructured zinc oxide film for urea sensor. *Materials Letters*, **2009**, 63, 2473-2475	3.3	88
280	Electrochemical Cholesterol Sensor Based on Tin Oxide-Chitosan Nanobiocomposite Film. *Electroanalysis*, **2009**, 21, 965-972	3	88
279	Biofunctionalized Nanostructured Zirconia for Biomedical Application: A Smart Approach for Oral Cancer Detection. *Advanced Science*, **2015**, 2, 1500048	13.6	87
278	Anti-epidermal growth factor receptor conjugated mesoporous zinc oxide nanofibers for breast cancer diagnostics. *Nanoscale*, **2015**, 7, 7234-45	7.7	87
277	Immobilization of lactate dehydrogenase on electrochemically prepared polypyrrole–polyvinylsulphonate composite films for application to lactate biosensors. *Electrochimica Acta*, **2001**, 46, 723-729	6.7	85
276	Preparation, characterization and application of polyaniline nanospheres to biosensing. *Nanoscale*, **2010**, 2, 747-54	7.7	84
275	Recent developments in bio-molecular electronics techniques for food pathogens. *Analytica Chimica Acta*, **2006**, 568, 259-74	6.6	82
274	Coimmobilization of urease and glutamate dehydrogenase in electrochemically prepared polypyrrole-polyvinyl sulfonate films. *Applied Biochemistry and Biotechnology*, **2001**, 96, 249-57	3.2	81
273	Fundamentals and application of ordered molecular assemblies to affinity biosensing. *Chemical Society Reviews*, **2012**, 41, 1363-402	58.5	80
272	Immobilization of urease on poly(N-vinyl carbazole)/stearic acid Langmuir-Blodgett films for application to urea biosensor. *Biosensors and Bioelectronics*, **2002**, 17, 697-703	11.8	80
271	Improved performance of polyaniline-uricase biosensor. *Analytica Chimica Acta*, **2007**, 594, 17-23	6.6	77
270	Synthesis and characterization of a copolymer: Poly(aniline-co-fluoroaniline). *Journal of Applied Polymer Science*, **2001**, 81, 1460-1466	2.9	77

269	Escherichia coli genosensor based on polyaniline. *Analytical Chemistry*, **2007**, 79, 6152-8	7.8	76
268	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. *Talanta*, **2006**, 69, 918-26	6.2	76
267	Polyaniline/Polymeric acid composite, a novel conducting rubber. *Journal of Applied Polymer Science*, **1990**, 40, 1049-1052	2.9	75
266	Nanomaterial-based biosensors for food toxin detection. *Applied Biochemistry and Biotechnology*, **2014**, 174, 880-96	3.2	73
265	Poly-(3-hexylthiophene) self-assembled monolayer based cholesterol biosensor using surface plasmon resonance technique. *Biosensors and Bioelectronics*, **2007**, 22, 2516-24	11.8	73
264	Nanostructured cerium oxide film for triglyceride sensor. *Sensors and Actuators B: Chemical*, **2009**, 141, 551-556	8.5	72
263	Ultrasensitive DNA hybridization biosensor based on polyaniline. *Biosensors and Bioelectronics*, **2007**, 23, 613-20	11.8	72
262	LangmuirBlodgett films of poly(3-dodecyl thiophene) for application to glucose biosensor. *Sensors and Actuators B: Chemical*, **2002**, 86, 42-48	8.5	72
261	Highly sensitive electrochemical immunosensor based on graphene-wrapped copper oxide-cysteine hierarchical structure for detection of pathogenic bacteria. *Sensors and Actuators B: Chemical*, **2017**, 238, 1060-1069	8.5	71
260	Electrochemical Growth of Polyaniline in Porous SolGel Films. *Chemistry of Materials*, **1996**, 8, 822-824	9.6	71
259	Nucleic acid sensor for M. tuberculosis detection based on surface plasmon resonance. *Analyst, The*, **2008**, 133, 1587-92	5	70
258	Highly efficient bienzyme functionalized nanocomposite-based microfluidics biosensor platform for biomedical application. *Scientific Reports*, **2013**, 3, 2661	4.9	69
257	Electrochromic properties of polycarbazole films. *Polymer*, **1997**, 38, 1625-1629	3.9	68
256	Characteristics of aqueous polycarbazole batteries. *Journal of Applied Polymer Science*, **1999**, 74, 145-150	2.9	68
255	ReviewTextile Based Chemical and Physical Sensors for Healthcare Monitoring. *Journal of the Electrochemical Society*, **2020**, 167, 037546	3.9	67
254	Electrochemical DNA sensor for Neisseria meningitidis detection. *Biosensors and Bioelectronics*, **2010**, 25, 2586-91	11.8	67
253	Polyaniline based nucleic acid sensor. *Journal of Physical Chemistry B*, **2008**, 112, 4808-16	3.4	67
252	A Novel Protocol to Entrap Active Urease in a Tetraethoxysilane-Derived Sol-Gel Thin-Film Architecture. *Chemistry of Materials*, **1994**, 6, 1596-1598	9.6	67

251	A novel electrochemical piezoelectric label free immunosensor for aflatoxin B1 detection in groundnut. *Food Control*, **2015**, 52, 60-70	6.2	66
250	Vacuum-deposited metal/polyaniline Schottky device. *Applied Physics Letters*, **1992**, 61, 1219-1221	3.4	66
249	Iron oxide-chitosan hybrid nanobiocomposite based nucleic acid sensor for pyrethroid detection. *Biochemical Engineering Journal*, **2009**, 46, 132-140	4.2	65
248	Zirconia based nucleic acid sensor for Mycobacterium tuberculosis detection. *Applied Physics Letters*, **2010**, 96, 133703	3.4	64
247	Application of polyaniline-Langmuir-Blodgett films as a glucose biosensor. *Materials Science and Engineering C*, **1995**, 3, 159-163	8.3	64
246	Electrochemical paper based cancer biosensor using iron oxide nanoparticles decorated PEDOT:PSS. *Analytica Chimica Acta*, **2019**, 1056, 135-145	6.6	64
245	Lipid-lipid interactions in aminated reduced graphene oxide interface for biosensing application. *Langmuir*, **2014**, 30, 4192-201	4	63
244	A novel ternary NiFe2O4/CuO/FeO-chitosan nanocomposite as a cholesterol biosensor. *Process Biochemistry*, **2012**, 47, 2189-2198	4.8	63
243	Immobilization of cholesterol esterase and cholesterol oxidase onto sol-gel films for application to cholesterol biosensor. *Analytica Chimica Acta*, **2007**, 582, 335-43	6.6	63
242	Highly sensitive protein functionalized nanostructured hafnium oxide based biosensing platform for non-invasive oral cancer detection. *Sensors and Actuators B: Chemical*, **2016**, 235, 1-10	8.5	63
241	Chitosan encapsulated quantum dots platform for leukemia detection. *Biosensors and Bioelectronics*, **2012**, 38, 107-13	11.8	60
240	Prospects of nanomaterials-enabled biosensors for COVID-19 detection. *Science of the Total Environment*, **2021**, 754, 142363	10.2	59
239	Ring like self assembled Ni nanoparticles based biosensor for food toxin detection. *Applied Physics Letters*, **2012**, 100, 093702	3.4	58
238	Chitosan-iron oxide nano-composite platform for mismatch-discriminating DNA hybridization for Neisseria gonorrhoeae detection causing sexually transmitted disease. *Biosensors and Bioelectronics*, **2011**, 26, 2967-74	11.8	57
237	STD sensor based on nucleic acid functionalized nanostructured polyaniline. *Biosensors and Bioelectronics*, **2009**, 24, 2232-8	11.8	57
236	Application of nanostructured ZnO films for electrochemical DNA biosensor. *Thin Solid Films*, **2010**, 519, 1196-1201	2.2	57
235	A highly efficient microfluidic nano biochip based on nanostructured nickel oxide. *Nanoscale*, **2013**, 5, 2883-91	7.7	56
234	Cerium oxide-chitosan based nanobiocomposite for food borne mycotoxin detection. *Applied Physics Letters*, **2009**, 95, 173703	3.4	56

233	Polypyrrole-polyvinyl sulphonate film based disposable nucleic acid biosensor. *Analytica Chimica Acta*, **2007**, 589, 6-13	6.6	55
232	Langmuir-Blodgett films of processable polyaniline. *The Journal of Physical Chemistry*, **1993**, 97, 11580-11582		55
231	Mediator-free microfluidics biosensor based on titania–zirconia nanocomposite for urea detection. *RSC Advances*, **2013**, 3, 228-235	3.7	54
230	Metal oxide–chitosan based nanocomposite for cholesterol biosensor. *Thin Solid Films*, **2009**, 518, 614-620	2.2	54
229	Protein functionalized carbon nanotubes-based smart lab-on-a-chip. *ACS Applied Materials & Interfaces*, **2015**, 7, 5837-46	9.5	53
228	Electrophoretic fabrication of chitosan-zirconium-oxide nanobiocomposite platform for nucleic acid detection. *Biomacromolecules*, **2011**, 12, 540-7	6.9	53
227	Cholesterol biosensor based on amino-undecanethiol self-assembled monolayer using surface plasmon resonance technique. *Langmuir*, **2007**, 23, 7398-403	4	53
226	Lactose biosensor based on Langmuir-Blodgett films of poly(3-hexyl thiophene). *Biosensors and Bioelectronics*, **2004**, 20, 651-7	11.8	53
225	Highly sensitive porous carbon and metal/carbon conducting nanofiber based enzymatic biosensors for triglyceride detection. *Sensors and Actuators B: Chemical*, **2017**, 246, 202-214	8.5	52
224	Graphene oxide-based biosensor for food toxin detection. *Applied Biochemistry and Biotechnology*, **2014**, 174, 960-70	3.2	51
223	Highly Efficient Bienzyme Functionalized Biocompatible Nanostructured Nickel Ferrite–Chitosan Nanocomposite Platform for Biomedical Application. *Journal of Physical Chemistry C*, **2013**, 117, 8491-8502	3.8	51
222	Molecularly imprinted polyaniline film for ascorbic acid detection. *Journal of Molecular Recognition*, **2011**, 24, 700-6	2.6	50
221	Polyaniline nanotubes for impedimetric triglyceride detection. *Electrochemistry Communications*, **2009**, 11, 1482-1486	5.1	50
220	A highly efficient rare earth metal oxide nanorods based platform for aflatoxin detection. *Journal of Materials Chemistry B*, **2013**, 1, 4493-4503	7.3	49
219	Nanoengineered cellulosic biohydrogen production via dark fermentation: A novel approach. *Biotechnology Advances*, **2019**, 37, 107384	17.8	48
218	Synthesis of optically active silica-coated NdF3 core-shell nanoparticles. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 86, 432-6	4.4	48
217	Bienzyme-functionalized monodispersed biocompatible cuprous oxide/chitosan nanocomposite platform for biomedical application. *Journal of Physical Chemistry B*, **2013**, 117, 141-52	3.4	48
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214	Recent studies of heterocyclic and aromatic conducting polymers. *Progress in Polymer Science*, **1986**, 12, 179-218	29.6	48
213	Label-free piezoelectric immunosensor decorated with gold nanoparticles: Kinetic analysis and biosensing application. *Sensors and Actuators B: Chemical*, **2016**, 222, 804-814	8.5	47
212	Nanostructured zirconium oxide based genosensor for Escherichia coli detection. *Electrochemistry Communications*, **2009**, 11, 2272-2277	5.1	47
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210	Nanobiocomposite platform based on polyaniline-iron oxide-carbon nanotubes for bacterial detection. *Bioelectrochemistry*, **2012**, 86, 30-7	5.6	45
209	Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B1 detection. *RSC Advances*, **2015**, 5, 5406-5414	3.7	44
208	A dual enzyme functionalized nanostructured thulium oxide based interface for biomedical application. *Nanoscale*, **2014**, 6, 1195-208	7.7	44
207	Characterization of electrochemically synthesized poly(2-fluoroaniline) film and its application to glucose biosensor. *Current Applied Physics*, **2003**, 3, 239-245	2.6	44
206	Immobilization of Lactate Dehydrogenase on Electrochemically Prepared Polyaniline Films. *Electroanalysis*, **1999**, 11, 450-452	3	44
205	A solution processed carbon nanotube modified conducting paper sensor for cancer detection. *Journal of Materials Chemistry B*, **2015**, 3, 9305-9314	7.3	43
204	Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. *Biosensors and Bioelectronics*, **2018**, 105, 173-181	11.8	43
203	Microporous Nanocomposite Enabled Microfluidic Biochip for Cardiac Biomarker Detection. *ACS Applied Materials & Interfaces*, **2017**, 9, 33576-33588	9.5	43
202	Nanostructured Iron Oxide Platform for Impedimetric Cholesterol Detection. *Electroanalysis*, **2010**, 22, 1045-1055	3	43
201	Polyaniline/Single-Walled Carbon Nanotubes Composite Based Triglyceride Biosensor. *Electroanalysis*, **2010**, 22, 2683-2693	3	42
200	LangmuirBlodgett film based biosensor for estimation of galactose in milk. *Electrochimica Acta*, **2004**, 49, 2479-2485	6.7	42
199	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 7646-56	9.5	41
198	Nanopatterned cadmium selenide Langmuir-Blodgett platform for leukemia detection. *Analytical Chemistry*, **2012**, 84, 3082-9	7.8	41

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196	Application of electrochemically prepared poly-N-methylpyrrole-p-toluene sulphonate films to cholesterol biosensor. *Sensors and Actuators B: Chemical*, **2007**, 123, 829-839	8.5	39
195	Improved electrochemical nucleic acid biosensor based on polyaniline-polyvinyl sulphonate. *Electrochimica Acta*, **2008**, 53, 4344-4350	6.7	39
194	Some recent studies on metal/polyaniline schottky devices. *Journal of Applied Polymer Science*, **1992**, 44, 911-915	2.9	39
193	Nanostructured anatase-titanium dioxide based platform for application to microfluidics cholesterol biosensor. *Applied Physics Letters*, **2012**, 101, 084105	3.4	38
192	An amperomertic uric acid biosensor based on immobilization of uricase onto polyaniline-multiwalled carbon nanotube composite film. *Artificial Cells, Blood Substitutes, and Biotechnology*, **2010**, 38, 178-85		38
191	CtrA gene based electrochemical DNA sensor for detection of meningitis. *Electrochemistry Communications*, **2009**, 11, 969-973	5.1	38
190	Electrical properties of metal (indium)/polyaniline Schottky devices. *Journal of Applied Polymer Science*, **1997**, 65, 2745-2748	2.9	38
189	DNA entrapped polypyrrole-polyvinyl sulfonate film for application to electrochemical biosensor. *Analytical Biochemistry*, **2007**, 366, 71-9	3.1	38
188	Self-assembled monolayer for toxicant detection using nucleic acid sensor based on surface plasmon resonance technique. *Biomedical Microdevices*, **2008**, 10, 757-67	3.7	38
187	Molecularly imprinted polyaniline-polyvinyl sulphonic acid composite based sensor for para-nitrophenol detection. *Analytica Chimica Acta*, **2013**, 777, 63-71	6.6	37
186	Optical and structural properties of nanostructured CeO2:Tb3+ film. *Journal of Alloys and Compounds*, **2011**, 509, 262-265	5.7	37
185	Poly-3-hexyl thiophene Langmuir-Blodgett films for application to glucose biosensor. *Biotechnology and Bioengineering*, **2004**, 85, 277-82	4.9	37
184	Effect of Brownian motion on reduced agglomeration of nanostructured metal oxide towards development of efficient cancer biosensor. *Biosensors and Bioelectronics*, **2018**, 102, 247-255	11.8	37
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182	Biofunctionalized tungsten trioxide-reduced graphene oxide nanocomposites for sensitive electrochemical immunosensing of cardiac biomarker. *Journal of Alloys and Compounds*, **2018**, 763, 102-110	5.7	36
181	Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing. *Sensors and Actuators B: Chemical*, **2016**, 229, 82-91	8.5	36
180	Nanomaterials in Biosensors: Fundamentals and Applications **2018**, 1-74		36

179	Electrophoretically deposited CdS quantum dots based electrode for biosensor application. *Journal of Materials Chemistry*, **2012**, 22, 4970		36
178	Polyaniline/carbon nanotubes platform for sexually transmitted disease detection. *Journal of Molecular Recognition*, **2010**, 23, 472-9	2.6	36
177	Carbon nanotubes chitosan nanobiocomposite for immunosensor. *Thin Solid Films*, **2010**, 519, 1160-1166	2.2	36
176	Application of polyaniline as enzyme based biosensor. *Current Applied Physics*, **2005**, 5, 174-177	2.6	36
175	Application of poly(aniline) as a glucose biosensor. *Sensors and Actuators B: Chemical*, **1994**, 21, 165-169	8.5	36
174	Multiwalled carbon nanotube modified microfluidic-based biosensor chip for nucleic acid detection. *Sensors and Actuators B: Chemical*, **2018**, 266, 329-336	8.5	34
173	Zirconia grafted carbon nanotubes based biosensor for M. Tuberculosis detection. *Applied Physics Letters*, **2011**, 99, 143702	3.4	34
172	A self assembled monolayer based microfluidic sensor for urea detection. *Nanoscale*, **2011**, 3, 2971-7	7.7	34
171	Low density lipoprotein detection based on antibody immobilized self-assembled monolayer: investigations of kinetic and thermodynamic properties. *Journal of Physical Chemistry B*, **2009**, 113, 14405-12	3.4	34
170	A novel urea biosensor based on zirconia. *Thin Solid Films*, **2010**, 519, 1187-1191	2.2	34
169	Immobilization of glucose oxidase onto Langmuir Blodgett films of poly-3-hexylthiophene. *Current Applied Physics*, **2003**, 3, 275-279	2.6	34
168	Protein-conjugated quantum dots interface: binding kinetics and label-free lipid detection. *Analytical Chemistry*, **2014**, 86, 1710-8	7.8	33
167	Self-assembled monolayer based impedimetric platform for food borne mycotoxin detection. *Nanoscale*, **2010**, 2, 2811-7	7.7	33
166	Dielectric relaxation in thin conducting polyaniline films. *Polymer*, **1998**, 39, 3399-3404	3.9	33
165	Nucleic acid immobilized polypyrrole polyvinylsulphonate film for Mycobacterium tuberculosis detection. *Electrochemistry Communications*, **2008**, 10, 821-826	5.1	33
164	Thermal analysis of chemically synthesized polyemeraldine base. *Journal of Applied Polymer Science* , **2000**, 75, 149-155	2.9	33
163	A chitosan modified nickel oxide platform for biosensing applications. *Journal of Materials Chemistry B*, **2015**, 3, 6698-6708	7.3	32
162	Biocompatible nanostructured magnesium oxide-chitosan platform for genosensing application. *Biosensors and Bioelectronics*, **2013**, 45, 181-8	11.8	32

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160	Bismuth oxide nanorods based immunosensor for mycotoxin detection. *Materials Science and Engineering C*, **2017**, 70, 564-571	8.3	31
159	Fumed silica nanoparticles□hitosan nanobiocomposite for ochratoxin-A detection. *Electrochemistry Communications*, **2009**, 11, 1919-1923	5.1	31
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157	Performance of electrochromic cells of polyaniline in polymeric electrolytes. *Journal of Materials Science Letters*, **1994**, 13, 1490-1493		31
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