

CITATION REPORT

List of articles citing

Electrochemical biosensors: towards point-of-care cancer diagnostics

DOI: 10.1016/j.bios.2005.10.027

Biosensors and Bioelectronics, 2006, 21, 1887-92.

Source: <https://exaly.com/paper-pdf/40463721/citation-report.pdf>

Version: 2024-04-24

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1095	A tris(2,2'-bipyridyl)cobalt(III)-bovine serum albumin composite membrane for biosensors. 2006 , 27, 5420-9		41
1094	Prostate specific antigen detection using AlGaNGaN high electron mobility transistors. 2007 , 91, 112106		80
1093	Nanomaterial labels in electrochemical immunosensors and immunoassays. <i>Talanta</i> , 2007 , 74, 308-17	6.2	252
1092	Development of combined DNA-based piezoelectric biosensors for the simultaneous detection and genotyping of high risk Human Papilloma Virus strains. 2007 , 383, 140-6		42
1091	Indirect electrochemical sensing of DNA hybridization based on the catalytic oxidation of cobalt (II). 2007 , 129, 1854-5		27
1090	An Overview of Label-free Electrochemical Protein Sensors. <i>Sensors</i> , 2007 , 7, 3442-3458	3.8	130
1089	An introduction to electrochemical DNA biosensors. <i>Analyst, The</i> , 2007 , 132, 603-10	5	215
1088	Amperometric immunosensor for detecting Schistosoma mansoni antibody. 2007 , 5, 673-82		8
1087	New Antibody Immobilization Strategy Based on Gold Nanoparticles and Azure I/Multi-Walled Carbon Nanotube Composite Membranes for an Amperometric Enzyme Immunosensor. 2007 , 111, 8443-8450		61
1086	A bioorganometallic approach for the electrochemical detection of proteins: a study on the interaction of ferrocene-peptide conjugates with papain in solution and on Au surfaces. 2007 , 13, 5885-95		76
1085	A Suggestion of Electrochemical Biosensor for Study of Platinum(II)-DNA Interactions. 2007 , 19, 331-338		44
1084	Label-Free Impedance Biosensors: Opportunities and Challenges. 2007 , 19, 1239-1257		885
1083	Biomedical and clinical applications of immunoassays and immunosensors for tumor markers. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 679-688	14.6	363
1082	Electrochemical DNA hybridization detection using peptide nucleic acids and [Ru(NH ₃) ₆] ³⁺ on gold electrodes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2237-43	11.8	101
1081	Electrochemical detection of cardiac troponin I using a microchip with the surface-functionalized poly(dimethylsiloxane) channel. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 51-9	11.8	75
1080	Electrochemical detection of phenolic compounds using cylindrical carbon-ink electrodes and microchip capillary electrophoresis. 2007 , 584, 244-51		35
1079	Silicon nanowire and polyethylene superhydrophobic surfaces for discrete magnetic microfluidics. 2007 , 254, 330-334		38

1078	DNA-enhanced assembly of [Ru(bpy) ₂ ITATP] ^{3+/2+} on an ITO electrode. 2007 , 52, 4956-4961		8
1077	Single-molecule selection and recovery of structure-specific antibodies using atomic force microscopy. 2007 , 3, 192-7		12
1076	Biosensor developments: application to prostate-specific antigen detection. 2007 , 25, 125-31		216
1075	DNA-based methods for monitoring invasive species: a review and prospectus. 2007 , 9, 751-765		168
1074	Biosensors based on immobilized insects fragments. 2007 , 12, 7-14		2
1073	Carbon nanotube/polysulfone screen-printed electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 332-40	11.8	100
1072	Fabrication and characterization of DNA-thionine-carbon nanotube nanocomposites. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 623, 8-14	4.1	25
1071	Superporous agarose-reticulated vitreous carbon electrodes for electrochemical sandwich bioassays. 2008 , 628, 190-7		3
1070	Rapid detection of influenza A virus in clinical samples using an ion channel switch biosensor. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1161-5	11.8	26
1069	An impedimetric immunosensor based on interdigitated microelectrodes (IDmicroE) for the determination of atrazine residues in food samples. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1367-73	11.8	73
1068	Determination of serum alcohol using a disposable biosensor. 2008 , 179, 192-8		21
1067	Immunofunctionalisation of gold transducers for bacterial detection by physisorption. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2825-35	4.4	21
1066	Sensors for detecting biological agents. 2008 , 11, 38-49		79
1065	Quantum-dot-based electrochemical immunoassay for high-throughput screening of the prostate-specific antigen. 2008 , 4, 82-6		111
1064	Chemoselective nanowire fuses: chemically induced cleavage and electrical detection of carbon nanofiber bridges. 2008 , 4, 795-801		4
1063	A Facile Preparation of H ₂ O ₂ Sensors Using Layer-by-Layer Deposited Thin Films Composed of Poly(ethyleneimine) and Carboxymethyl Cellulose as Matrices for Immobilizing Hemin. 2008 , 20, 1028-1031		16
1062	Investigation of Airbrushing for Fabricating Microelectrodes in Microfluidic Devices. 2008 , 20, 663-670		14
1061	Electrochemical Biosensors for Medical and Food Applications. 2008 , 20, 616-626		125

1060	Electrochemical DNA Hybridization Detection Using DNA Cleavage. 2008 , 20, 1204-1208		8
1059	Electrochemical Aptasensor for the Determination of Cocaine Incorporating Gold Nanoparticles Modification. 2008 , 20, 1475-1482		55
1058	Field-Effect Nanoparticle-Based Glucose Sensor on a Chip: Amplification Effect of Coimmobilized Redox Species. 2008 , 20, 1748-1753		52
1057	Comparison of Electrochemical and Surface Plasmon Resonance Immunosensor Responses on Single Thin Film. 2008 , 20, 2241-2246		6
1056	Electrochemical techniques for microfluidic applications. 2008 , 29, 1787-800		63
1055	CYP450 biosensors based on gold chips for antiepileptic drugs determination. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1733-7	11.8	26
1054	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. 2008 , 609, 139-59		217
1053	Preparation and characterization of superporous agarose-reticulated vitreous carbon electrodes as platforms for electrochemical bioassays. 2008 , 622, 1-10		6
1052	Electrochemical enzyme immunoassay using model labels. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 543-553	14.6	73
1051	Capillary-based immunoassays, immunosensors and DNA sensors β Steps towards integration and multi-analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 771-784	14.6	22
1050	Sensing bacteria but treating them well: determination of optimal incubation and storage conditions. 2008 , 383, 68-75		11
1049	Electric field-driven strategy for multiplexed detection of protein biomarkers using a disposable reagentless electrochemical immunosensor array. 2008 , 80, 6072-7		120
1048	Electrochemical detection of blood alcohol concentration using a disposable biosensor based on screen-printed electrode modified with Nafion and gold nanoparticles. 2008 , 46, 1641-7		17
1047	Electrochemical sensors. 2008 , 80, 4499-517		180
1046	Recent advances in DNA sensors. <i>Analyst, The</i> , 2008 , 133, 984-91	5	114
1045	Assembling Amperometric Biosensors for Clinical Diagnostics. <i>Sensors</i> , 2008 , 8, 1366-1399	3.8	92
1044	Biosensors for biomarkers in medical diagnostics. 2008 , 13, 637-57		128
1043	Electrical detection of biomaterials using AlGaIn/GaN high electron mobility transistors. 2008 , 104, 031101		101

1042	Electrochemical Biosensors - Sensor Principles and Architectures. <i>Sensors</i> , 2008 , 8, 1400-1458	3.8	524
1041	Nucleic acid biosensors for environmental pollution monitoring. <i>Analyst, The</i> , 2008 , 133, 846-54	5	170
1040	Rapid and cost-effective detection of sequence-specific DNA by monitoring the electrochemical response of 2'-deoxyguanosine 5'-triphosphate in a PCR sample. <i>Analyst, The</i> , 2008 , 133, 1729-35	5	17
1039	Disposable reagentless electrochemical immunosensor array based on a biopolymer/sol-gel membrane for simultaneous measurement of several tumor markers. 2008 , 54, 1481-8		71
1038	Theory and practice of enzyme bioaffinity electrodes. Direct electrochemical product detection. 2008 , 130, 7259-75		35
1037	Microfluidic device architecture for electrochemical patterning and detection of multiple DNA sequences. 2008 , 24, 1102-7		74
1036	Identification of species with DNA-based technology: current progress and challenges. 2008 , 2, 187-99		91
1035	Vesicles for Signal Amplification in a Biosensor for the Detection of Low Antigen Concentrations. <i>Sensors</i> , 2008 , 8, 7894-7903	3.8	16
1034	Optimal probe length and target location for electrochemical detection of selected uropathogens at ambient temperature. 2008 , 46, 2707-16		12
1033	Nano-porous electrode systems by colloidal lithography for sensitive electrochemical detection: fabrication technology and properties. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 11501†		31
1032	Nanomaterial Based Electrochemical DNA Biosensors and Bioassays. 2008 , 4, 419-431		22
1031	. 2009 ,		16
1030	Separation of beta-human chorionic gonadotropin and immunoglobulin G by a miniaturized size exclusion chromatography column. 2009 , 94, 173902		3
1029	Amperometric Biosensors Equipped with Enzyme Micelle Membrane Using Polymaleimidostyrene as Stabilizer. 2009 , 614, 79-84		
1028	Nanosensors. 2009 , 412-443		1
1027	On-chip detection of cellular activity. 2010 , 117, 179-91		1
1026	Principles and Applications of Electrochemical Oxidation of Nucleic Acids. 357-387		
1025	Gold Nanoparticles: A Versatile Label for Affinity Electrochemical Biosensors. 177-197		7

1024	Investigation of a DNA-Based Biosensor with Chitosan-Carbon Nanotubes Interface by Cyclic and Elimination Voltammetry. 2009 , 21, 563-572		14
1023	Advantages of Odd Random Phase Multisine Electrochemical Impedance Measurements. 2009 , 21, 730-739		69
1022	Sensor Array: Impedimetric Label-Free Sensing of DNA Hybridization in Real Time for Rapid, PCR-Based Detection of Microorganisms. 2009 , 21, 1459-1468		24
1021	Whispering gallery mode biosensors consisting of quantum dot-embedded microspheres. 2009 , 37, 1974-83		35
1020	Bienzyme functionalized three-layer composite magnetic nanoparticles for electrochemical immunosensors. 2009 , 30, 2284-90		196
1019	Enzyme logic gates for the digital analysis of physiological level upon injury. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3569-74	11.8	77
1018	Electrochemical detection of the neomycin phosphotransferase gene (NPT-II) in transgenic plants with a novel DNA biosensor. 2009 , 39, 935-945		7
1017	Disposable amperometric immunosensor based on layer-by-layer electro-depositing of the nanogold particles, prussian blue-modified indium tin oxide for determination of α Fetoprotein. 2009 , 121, 1069-1076		9
1016	QCM-based DNA biosensor for detection of genetically modified organisms (GMOs). 2009 , 44, 142-150		52
1015	New reactive polymer for protein immobilisation on sensor surfaces. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1365-71	11.8	27
1014	Status of biomolecular recognition using electrochemical techniques. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2749-65	11.8	245
1013	A simple strategy of probe DNA immobilization by diazotization-coupling on self-assembled 4-aminothiophenol for DNA electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2160-4	11.8	24
1012	Sequence-specific DNA detection by using biocatalyzed electrochemiluminescence and non-fouling surfaces. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 368-72	11.8	38
1011	Localized electrochemistry on a 10 microm spot on a monolith large electrode: an avenue for electrochemical microarray analysis. 2009 , 81, 6055-60		14
1010	A label-free, rapid multimarker protein impedance-based immunosensor. 2009 ,		3
1009	Detection of protein binding using activator generated by electron transfer for atom transfer radical polymerization. 2009 , 81, 9824-7		33
1008	Multiplex detection of DNA sequences using the volume-amplified magnetic nanobead detection assay. 2009 , 81, 3398-406		53
1007	Biosensors for cancer markers diagnosis. 2009 , 20, 55-62		353

1006	Interaction of D-amino acid oxidase with carbon nanotubes: implications in the design of biosensors. 2009 , 81, 1016-22		51
1005	Electrochemical biosensor of nanocube-augmented carbon nanotube networks. 2009 , 3, 37-44		210
1004	Electrochemical biosensors at the nanoscale. 2009 , 9, 2123-31		117
1003	Biological Interactions on Materials Surfaces. 2009 ,		31
1002	Label-free Electrochemical Impedance Detection of Ovarian Cancer Markers CA-125 and CEA. 2009 , 1236, 1		1
1001	Dual signal amplification of glucose oxidase-functionalized nanocomposites as a trace label for ultrasensitive simultaneous multiplexed electrochemical detection of tumor markers. 2009 , 81, 9730-6		254
1000	Electrochemical detection for paper-based microfluidics. 2009 , 81, 5821-6		902
999	Ion-selective electrodes using multi-walled carbon nanotubes as ion-to-electron transducers for the detection of perchlorate. <i>Analyst, The</i> , 2009 , 134, 1905-10	5	73
998	The solid-state Ag/AgCl process as a highly sensitive detection mechanism for an electrochemical immunosensor. 2009 , 6231-3		45
997	Split hybridisation probes for electrochemical typing of single-nucleotide polymorphisms. <i>Analyst, The</i> , 2009 , 134, 52-9	5	11
996	On the nature of DNA self-assembled monolayers on Au: measuring surface heterogeneity with electrochemical in situ fluorescence microscopy. 2009 , 131, 4042-50		111
995	Nanotechnologies for Water Environment Applications. 2009 ,		25
994	Recent Advances of Sensitive Electroanalytical Tools and Probes in the Study of DNA Structure. 2010 , 14, 2300-2309		2
993	Steps along the road to electrochemical devices for early cancer diagnosis. 2010 , 2, 847-50		4
992	Biosensors: the new wave in cancer diagnosis. 2010 , 4, 1-10		89
991	Optical properties and orientational order of deoxyribonucleic acid molecules at interfaces. 2010 , 52, 49-54		1
990	Sensor systems for medical application based on hemoproteins and nanocomposite materials. 2010 , 4, 25-36		6
989	3D nanogap interdigitated electrode array biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1493-502	4.4	38

988	Biosensors with label-free detection designed for diagnostic applications. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2403-12	4.4	92
987	Electrochemical impedance spectroscopy in label-free biosensor applications: multivariate data analysis for an objective interpretation. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2341-9	4.4	37
986	Electrochemical probe for the monitoring of DNA-protein interactions. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2598-602	11.8	21
985	Separation of beta-human chorionic gonadotropin from fibrinogen using a MEMS size exclusion chromatography column. 2010 , 8, 477-484		3
984	DNA hybridization detection by electrochemical impedance spectroscopy using interdigitated gold nanoelectrodes. <i>Mikrochimica Acta</i> , 2010 , 170, 275-281	5.8	50
983	Rapid detection of bacterial proliferation in food samples using microchannel impedance measurements at multiple frequencies. 2010 , 4, 108-118		11
982	A Signal-Amplified Electrochemical Immunosensor Based on Prussian Blue and Pt Hollow Nanospheres as Matrix. 2010 , 22, 2577-2586		3
981	Nanomaterial-Based Electrochemical Biosensors and Bioassays. 2010 , 61-88		
980	Electrochemistry and in situ fluorescence microscopy of octadecanol layers doped with a BODIPY-labeled phospholipid: Investigating an adsorbed heterogeneous layer. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 649, 126-135	4.1	5
979	Fabrication of flexible interdigitated Electrodes (FIDEs) for the development of a conductimetric immunosensor for atrazine detection based on antibodies labelled with gold nanoparticles. 2010 , 87, 167-173		26
978	Emerging synergy between nanotechnology and implantable biosensors: a review. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1553-65	11.8	284
977	Structure-activity relationship in binding ligands to library of artificial receptors: the search for biocompatible sensor. 2010 , 80, 2-9		2
976	Ternary mixed monolayers for simultaneous DNA orientation control and surface passivation for label free DNA hybridization electrochemical sensing. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2129-34	11.8	33
975	Impedimetric genosensing of DNA polymorphism correlated to cystic fibrosis: a comparison among different protocols and electrode surfaces. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1245-51	11.8	25
974	A gold nanorod-based optical DNA biosensor for the diagnosis of pathogens. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 667-73	11.8	130
973	Electrochemical immunosensor detection of urinary lactoferrin in clinical samples for urinary tract infection diagnosis. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 649-54	11.8	73
972	Challenges in the use of 1D nanostructures for on-chip biosensing and diagnostics: a review. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1195-204	11.8	68
971	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 418-23	11.8	58

970 Sensing, actuation, and interaction. 121-173

969 Drug-device combination products. **2010**, 3-28 1

968 Surface Immobilizations of AlGaN/GaN High Electron Mobility Transistor Based Sensors. **2010**, 33, 3-22 5

967 NanoMonitor: a miniature electronic biosensor for glycan biomarker detection. **2010**, 5, 369-78 47

966 Driving Forces and Consequences of the Adsorption of Proteins to Carbon Nanotubes. **2010**, 441, 75-94 2

965 Using competitive protein adsorption to measure fibrinogen in undiluted human serum. **2010**, 97, 253701 6

964 Catalysis of semiconductor nanoparticles towards electro-oxidation of ascorbic acid. **2010**,

963 Engineering a continuous flow electrochemical micro-cell for biosensor applications: new achievements. **2010**, 90, 31-39 1

962 Atomic force microscopy study of immunosensor surface to scale down the size of ELISA-type sensors. **2010**, 21, 145503 12

961 A fibre optic chemical sensor for the detection of cocaine. **2010**, 3

960 Miniaturization of molecular biological techniques for gene assay. *Analyst, The*, **2010**, 135, 1499-518 5 36

959 Analytical connotations of point-of-care testing. *Analyst, The*, **2010**, 135, 2220-32 5 30

958 An electrochemical peptide-based biosensing platform for HIV detection. **2010**, 46, 395-7 62

957 'Dispersible electrodes': a solution to slow response times of sensitive sensors. **2010**, 46, 8821-3 40

956 Antibody functionalized interdigitated micro-electrode (IDmicroE) based impedimetric cortisol biosensor. *Analyst, The*, **2010**, 135, 1941-6 5 58

955 Reagentless amperometric cancer antigen 15-3 immunosensor based on enzyme-mediated direct electrochemistry. *Biosensors and Bioelectronics*, **2010**, 25, 2548-52 11.8 61

954 Measurement of biomarker proteins for point-of-care early detection and monitoring of cancer. *Analyst, The*, **2010**, 135, 2496-511 5 401

953 Electrochemical immunosensor for simultaneous detection of dual cardiac markers based on a poly(dimethylsiloxane)-gold nanoparticles composite microfluidic chip: a proof of principle. **2010**, 56, 1701-7 105

952	Quantum dots based electrochemiluminescent immunosensor by coupling enzymatic amplification with self-produced coreactant from oxygen reduction. 2010 , 82, 7351-6		96
951	Development of a DNA Microelectrochemical Biosensor for CEACAM5 Detection. 2010 , 10, 1368-1374		14
950	Towards Biosensing Strategies Based on Biochemical Logic Systems. 2010 ,		4
949	"Proof-of-principle" concept for ultrasensitive detection of cytokines based on the electrically heated carbon paste electrode. 2011 , 47, 6551-3		32
948	Electrochemical Biosensing for Direct Biopsy Slices Screening for Colorectal Cancer Detection. 2011 , 158, P1		18
947	Detection of multiple disease indicators by an autonomous biomolecular computer. 2011 , 11, 2989-96		35
946	. 2011 , 11, 305-311		21
945	Inkjet-printed gold nanoparticle electrochemical arrays on plastic. Application to immunodetection of a cancer biomarker protein. 2011 , 13, 4888-94		123
944	Amperometric Immunosensor for Prostate Specific Antigen Based on Gold Nanoparticles/Ionic Liquid/Chitosan Hybrid Film. <i>Analytical Letters</i> , 2011 , 44, 908-921	2.2	6
943	Genetic analysis of H1N1 influenza virus from throat swab samples in a microfluidic system for point-of-care diagnostics. 2011 , 133, 9129-35		160
942	Nanobiosensing for Clinical Diagnosis. 2011 , 535-567		3
941	Lung cancer and its early detection using biomarker-based biosensors. 2011 , 111, 6783-809		188
940	Nanotechnology-Based Modern Sensors and Biosensors. 2011 , 3-24		
939	Electrochemical detection of testosterone by use of three-dimensional disc-ring microelectrode sensing platforms: application to doping monitoring. 2011 , 83, 4037-44		14
938	Biosensors based on combined optical and electrochemical transduction for molecular diagnostics. 2011 , 11, 533-46		21
937	Carbon nanotube microwell array for sensitive electrochemiluminescent detection of cancer biomarker proteins. 2011 , 83, 6698-703		195
936	A Sensitive Nanoporous Gold-Based Electrochemical DNA Biosensor for Escherichia coli Detection. <i>Analytical Letters</i> , 2011 , 44, 2559-2570	2.2	14
935	Electrochemical quantification of DNA using aluminum oxide membranes. 2011 , 25, 713-716		1

934	Increased cross-platform microarray data set correlation via substrate-independent nanofilms. 2011 , 83, 5592-7		3
933	Microfluidics. 2011 ,		31
932	NanoBiosensing. 2011 ,		26
931	Electrochemical detection of DNA mutations on a PNA-modified electrode utilizing a single-stranded DNA specific endonuclease. 2011 , 47, 6611-3		16
930	Hybrid electrokinetic manipulation in high-conductivity media. 2011 , 11, 1770-5		72
929	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. 2011 , 21, 11224		51
928	A review of opportunities for electrospun nanofibers in analytical chemistry. 2011 , 706, 25-36		98
927	Evaluation of probe orientation and effect of the digoxigenin-enzymatic label in a sandwich hybridization format to develop toxic algae biosensors. 2011 , 10, 489-494		12
926	Emerging nanoproteomics approaches for disease biomarker detection: a current perspective. 2011 , 74, 2660-81		53
925	Biosensors in microfluidic chips. 2011 , 304, 117-52		16
924	A novel sensitive electrochemical DNA biosensor for assaying of anticancer drug leuprolide and its adsorptive stripping voltammetric determination. <i>Talanta</i> , 2011 , 83, 780-8	6.2	39
923	Fe ₂ O ₃ @Au core/shell nanoparticle-based electrochemical DNA biosensor for Escherichia coli detection. <i>Talanta</i> , 2011 , 84, 607-13	6.2	81
922	Nanomaterials based biosensors for food analysis applications. 2011 , 22, 625-639		187
921	Biosensor diagnosis of urinary tract infections: a path to better treatment?. 2011 , 32, 330-6		62
920	Amperometric detection of antibodies in serum: performance of self-assembled cyclodextrin/cellulose polymer interfaces as antigen carriers. 2011 , 9, 4770-3		15
919	"Off-on" electrochemical hairpin-DNA-based genosensor for cancer diagnostics. 2011 , 83, 1594-602		140
918	Cancer nanotechnology: Recent trends and developments. 2011 , 6,		3
917	An electrochemical outlook on tamoxifen biotransformation: current and future prospects. 2011 , 12, 372-82		6

916	AlGaN/GaN High Electron Mobility Transistor Based Sensors for Bio-Applications. 2011,		
915	Electrochemical DNA Sensors: From Nanoconstruction to Biosensing. 2011, 15, 506-517		13
914	Recent Advances in Wide-Bandgap Semiconductor Biological and Gas Sensors. 2011, 43-96		3
913	Optimized ferrocene-functionalized ZnO nanorods for signal amplification in electrochemical immunoassay of Escherichia coli. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4661-6	11.8	28
912	Ultrasensitive electrochemical immunosensor employing glucose oxidase catalyzed deposition of gold nanoparticles for signal amplification. <i>Biosensors and Bioelectronics</i> , 2011, 27, 53-7	11.8	18
911	Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. <i>Biosensors and Bioelectronics</i> , 2011, 28, 166-73	11.8	83
910	Simple detection of nucleic acids with a single-walled carbon-nanotube-based electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2011, 28, 257-62	11.8	27
909	P450-based porous silicon biosensor for arachidonic acid detection. <i>Biosensors and Bioelectronics</i> , 2011, 28, 320-5	11.8	15
908	Field-effect amperometric immuno-detection of protein biomarker. <i>Biosensors and Bioelectronics</i> , 2011, 29, 210-4	11.8	16
907	Microfluidic-based biosensors toward point-of-care detection of nucleic acids and proteins. 2011, 10, 231-247		178
906	Electrochemical sensor for blood deoxyribonucleases: design and application to the diagnosis of autoimmune thyroiditis. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2591-7	4-4	5
905	Ternary monolayers as DNA recognition interfaces for direct and sensitive electrochemical detection in untreated clinical samples. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3577-83	11.8	95
904	Graphene-assisted dual amplification strategy for the fabrication of sensitive amperometric immunosensor. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3627-32	11.8	107
903	Microfluidic electrochemical immunoarray for ultrasensitive detection of two cancer biomarker proteins in serum. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4477-83	11.8	181
902	System Integration - A Major Step toward Lab on a Chip. 2011, 5, 6		64
901	Molecular analysis of blood with micro-/nanoscale field-effect-transistor biosensors. 2011, 7, 1863-75		86
900	Immobilization-Free Electrochemical DNA Polymerase Assay. 2011, 23, 923-926		4
899	Signal Enhancement of Electrochemical Biomemory Device Composed of Recombinant Azurin/Gold Nanoparticle. 2011, 23, 2023-2029		14

898	Nanobioelectroanalysis Based on Carbon/Inorganic Hybrid Nanoarchitectures. 2011 , 23, 1289-1300		57
897	Signal-Enhanced Amperometric Immunosensor Based on Ferrocene-Branched Poly(allylamine)/Multiwalled Carbon Nanotubes Redox-Active Composite. 2011 , 23, 1975-1983		7
896	Optical biosensors to analyze novel biomarkers in oncology. 2011 , 4, 442-52		23
895	Ultrasensitive nucleic acid biosensor based on enzyme-gold nanoparticle dual label and lateral flow strip biosensor. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2018-24	11.8	164
894	Simultaneous immobilization of glucose oxidase on the surface and cavity of hollow gold nanospheres as labels for highly sensitive electrochemical immunoassay of tumor marker. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2776-80	11.8	30
893	Paper based point-of-care testing disc for multiplex whole cell bacteria analysis. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4342-8	11.8	172
892	Electrochemical detection and discrimination of single copy gene target DNA in non-amplified genomic DNA. 2011 , 56, 1925-1931		35
891	Electrochemical determination of anticancer drug fulvestrant at dsDNA modified pencil graphite electrode. 2011 , 56, 4433-4438		20
890	A novel microassay for measuring blood alcohol concentration using a disposable biosensor strip. 2011 , 207, 177-82		23
889	Electrochemical detection of short HIV sequences on chitosan/Fe ₃ O ₄ nanoparticle based screen printed electrodes. 2011 , 31, 477-485		66
888	Development of amperometric immunoassays (AIAs) for calpastatin and Calcipain with possible applications in the biomedical field. <i>Sensors and Actuators B: Chemical</i> , 2011 , 152, 248-253	8.5	
887	Correlation between cell growth rate and glucose consumption determined by electrochemical monitoring. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 416-422	8.5	10
886	Nanotechniques and Proteomics: An Integrated Platform for Diagnostics, Targeted Therapeutics and Personalized Medicine. 2011 , 9, 264-285		1
885	Assessing antibody microarrays for space missions: effect of long-term storage, gamma radiation, and temperature shifts on printed and fluorescently labeled antibodies. 2011 , 11, 759-73		22
884	SOLID3: a multiplex antibody microarray-based optical sensor instrument for in situ life detection in planetary exploration. 2011 , 11, 15-28		76
883	Prospects of Nanobiomaterials for Biosensing. 2011 , 2011, 1-30		40
882	Design and fabrication of a high-performance electrochemical glucose sensor. 2011 , 5, 1044-51		29
881	Hydrogels in Biosensing Applications. 2011 , 491-517		6

880	Detection of target ssDNA using a microfabricated Hall magnetometer with correlated optical readout. 2012 , 2012, 492730		6
879	Label-free electrochemical diagnosis of viral antigens with genetically engineered fusion protein. <i>Sensors</i> , 2012 , 12, 10097-108	3.8	17
878	Impedance interrogated affinity biosensors for medical applications: novel targets and mechanistic studies. 2012 , 103-134		4
877	Electrochemical Study of the Interaction Between the Antibacterial Drug Gemifloxacin and dsDNA Using Pencil Graphite Electrode. 2012 , 8, 528-533		8
876	Electrochemical Sensor Systems for Medicine. 2012 , 68-95		3
875	- Microelectrode Array Analysis of Prostate Cancer. 2012 , 668-681		
874	- Label-Free Electrochemical Sensing of DNA Hybridization for Cancer Analysis. 2012 , 696-717		
873	- Electrochemical Biosensor for Detection of Chronic Myelogenous Leukemia and Acute Promyelocytic Leukemia. 2012 , 718-737		
872	- Next Generation Calorimetry Based on Nanohole Array Sensing. 2012 , 802-827		
871	Silicon Nanowire Biosensor for Cancer Markers. 2012 , 180-200		2
870	A new dual immunoassay for tumor markers based on chemiluminescence signal amplification by magnetic mesoporous silica and enzyme modified gold nanoparticles. 2012 , 28, 21-5		17
869	Hydrogels in sensing applications. 2012 , 37, 1678-1719		483
868	Detection of biomarkers using recombinant antibodies coupled to nanostructured platforms. 2012 , 3,		44
867	Nanophotonic lab-on-a-chip platforms including novel bimodal interferometers, microfluidics and grating couplers. 2012 , 12, 1987-94		66
866	Recent advances in electrochemical sensing for hydrogen peroxide: a review. <i>Analyst, The</i> , 2012 , 137, 49-58	5	720
865	Electrochemical immunosensors for detection of cancer protein biomarkers. 2012 , 6, 6546-61		515
864	Electrochemical Biosensors for Cancer Biomarker Detection. 2012 , 24, 2213-2229		77
863	A novel biosensor based on hafnium oxide: Application for early stage detection of human interleukin-10. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 201-207	8.5	64

862	Label-free electrical detection of pyrophosphate generated from DNA polymerase reactions on field-effect devices. <i>Analyst, The</i> , 2012 , 137, 1351-62	5	30
861	Piezoelectric biosensors for medical applications. 2012 , 41-64		7
860	Calorimetric sensing system for real-time urea and creatinine measurements. 2012 ,		0
859	In situ electrokinetic enhancement for self-assembled-monolayer-based electrochemical biosensing. 2012 , 84, 2702-7		30
858	Graphene for impedimetric biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 37, 12-21	14.6	125
857	Highly sensitive electrochemical detection of proteins using aptamer-coated gold nanoparticles and surface enzyme reactions. <i>Analyst, The</i> , 2012 , 137, 2011-6	5	36
856	Amplified detection of DNA through the enzyme-free autonomous assembly of hemin/G-quadruplex DNAzyme nanowires. 2012 , 84, 1042-8		281
855	Electrochemical sandwich assay for attomole analysis of DNA and RNA from beer spoilage bacteria <i>Lactobacillus brevis</i> . <i>Biosensors and Bioelectronics</i> , 2012 , 37, 99-106	11.8	25
854	Intrinsic Fluorescence-Based Optical Fiber Sensor for Cocaine Using a Molecularly Imprinted Polymer as the Recognition Element. 2012 , 12, 255-260		41
853	Hybridization chain reaction-based aptameric system for the highly selective and sensitive detection of protein. <i>Analyst, The</i> , 2012 , 137, 1396-401	5	57
852	Theoretical assessment of binding and mass-transport effects in electrochemical affinity biosensors that utilize nanoparticle labels for signal amplification. 2012 , 18, 15167-77		6
851	Highly sensitive hydrogen peroxide biosensors based on TiO ₂ nanodots/ITO electrodes. 2012 , 22, 9019		32
850	An electrochemically reduced graphene oxide-based electrochemical immunosensing platform for ultrasensitive antigen detection. 2012 , 84, 1871-8		159
849	Sensitive sepiolite-carbon nanotubes based disposable electrodes for direct detection of DNA and anticancer drug-DNA interactions. <i>Analyst, The</i> , 2012 , 137, 4001-4	5	27
848	Mediator free highly sensitive polyaniline-gold hybrid nanocomposite based immunosensor for prostate-specific antigen (PSA) detection. 2012 , 22, 14763		67
847	Chemiluminescence imaging immunoassay of multiple tumor markers for cancer screening. 2012 , 84, 2410-5		150
846	Interferometric waveguide biosensors based on Si-technology for point-of-care diagnostic. 2012 ,		8
845	Basics of broadband impedance spectroscopy measurements using periodic excitations. 2012 , 23, 105501		49

844	Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection. 2012 , 1, 1-7		15
843	Fuel cell-powered microfluidic platform for lab-on-a-chip applications. 2012 , 12, 74-9		30
842	Using distal-site mutations and allosteric inhibition to tune, extend, and narrow the useful dynamic range of aptamer-based sensors. 2012 , 134, 20601-4		104
841	Immunoassay for SKOV-3 human ovarian carcinoma cells using a graphene oxide-modified electrode. <i>Mikrochimica Acta</i> , 2012 , 179, 201-207	5.8	10
840	Ultrasensitive nanostructured immunosensor for stem and carcinoma cell pluripotency gatekeeper protein NANOG. 2012 , 7, 957-65		15
839	Nanomaterials-based electrochemical immunosensors for proteins. 2012 , 12, 164-76		45
838	Size-dependent nonlinear weak-field magnetic behavior of maghemite nanoparticles. 2012 , 8, 1945-56		41
837	Rapid, Sensitive, and Quantitative Detection of Pathogenic DNA at the Point of Care through Microfluidic Electrochemical Quantitative Loop-Mediated Isothermal Amplification. <i>Angewandte Chemie</i> , 2012 , 124, 4980-4984	3.6	55
836	Re-engineering Electrochemical Biosensors To Narrow or Extend Their Useful Dynamic Range. <i>Angewandte Chemie</i> , 2012 , 124, 6821-6825	3.6	1
835	Rapid, sensitive, and quantitative detection of pathogenic DNA at the point of care through microfluidic electrochemical quantitative loop-mediated isothermal amplification. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4896-900	16.4	193
834	Re-engineering electrochemical biosensors to narrow or extend their useful dynamic range. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6717-21	16.4	65
833	Electrochemical Immunosensor for α Fetoprotein Based on Gold Nanoparticles/Graphene-Prussian Blue. 2012 , 30, 485-490		4
832	Fabrication of immunosensor microwell arrays from gold compact discs for detection of cancer biomarker proteins. 2012 , 12, 281-6		67
831	Sensitive amperometric detection of omeprazole and pantoperazole at electrodeposited nickel oxide nanoparticles modified glassy carbon electrode. 2012 , 16, 1369-1375		16
830	A fully microfabricated carbon nanotube three-electrode system on glass substrate for miniaturized electrochemical biosensors. 2012 , 14, 613-24		7
829	A label-free immunosensor by controlled fabrication of monoclonal antibodies and gold nanoparticles inside the mesopores. 2012 , 421, 97-102		29
828	Label-free impedimetric aptasensor for lysozyme detection based on carbon nanotube-modified screen-printed electrodes. 2012 , 421, 454-9		100
827	A Basic Approach Towards the Development of Bioelectric Bacterial Biosensors for the Detection of Plant Viruses. 2012 , 160, 106-111		9

826	Simultaneous and sensitive voltammetric determination of acetaminophen and its degradation product for pharmaceutical quality control and pharmacokinetic research by using ultrathin poly (calconcarboxylic acid) film modified glassy carbon electrode. 2012 , 63, 161-168		24
825	Decorating graphene sheets with gold nanoparticles for the detection of sequence-specific DNA. 2012 , 71, 239-245		63
824	Biosensing using dynamic-mode cantilever sensors: a review. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 1-18	11.8	209
823	Nanoporous impedemetric biosensor for detection of trace atrazine from water samples. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 155-62	11.8	34
822	Assays for aptamer-based platforms. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 1-11	11.8	149
821	Graphene/quantum dot bionanoconjugates as signal amplifiers in stripping voltammetric detection of EpCAM biomarkers. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 251-257	11.8	63
820	Voltammetric Immunoassay for the Detection of Protein Biomarkers. 2012 , 24, 264-272		17
819	Towards in vitro molecular diagnostics using nanostructures. 2012 , 69, 373-88		22
818	Label-free electrochemical DNA biosensor based on a glassy carbon electrode modified with gold nanoparticles, polythionine, and graphene. <i>Mikrochimica Acta</i> , 2012 , 176, 463-470	5.8	43
817	An electrochemical magneto immunosensor (EMIS) for the determination of paraquat residues in potato samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 7841-9	4.4	16
816	Electroanalysis of single-nucleotide polymorphism by hairpin DNA architectures. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3693-703	4.4	30
815	Aptamer--nanoparticle-based chemiluminescence for p53 protein. 2013 , 441, 73-9		16
814	Lab-on-a-Chip, Micro- and Nanoscale Immunoassay Systems, and Microarrays. 2013 , 175-202		3
813	Applications of Nanomaterials in Sensors and Diagnostics. 2013 ,		24
812	Stainless steel modified with an aminosilane layer and gold nanoparticles as a novel disposable substrate for impedimetric immunosensors. <i>Biosensors and Bioelectronics</i> , 2013 , 48, 61-6	11.8	16
811	Graphene-modified electrode for DNA detection via PNADNA hybridization. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 563-570	8.5	38
810	Gold nanoparticles deposited on amine functionalized silica sphere and its modified electrode for hydrogen peroxide sensing. 2013 , 43, 1005-1010		8
809	Utilization of nanoparticle labels for signal amplification in ultrasensitive electrochemical affinity biosensors: a review. 2013 , 797, 1-12		96

808	Detection of IP-10 protein marker in undiluted blood serum via an electrochemical E-DNA scaffold sensor. <i>Analyst, The</i> , 2013 , 138, 5580-3	5	20
807	Ultra-sensitive nucleic acids detection with electrical nanosensors based on CMOS-compatible silicon nanowire field-effect transistors. 2013 , 63, 212-8		21
806	Point-of-care nucleic acid detection using nanotechnology. 2013 , 5, 10141-54		65
805	How can we exploit the protein corona?. 2013 , 8, 1-3		42
804	Electrochemical immunosensors in breast and ovarian cancer. 2013 , 425, 128-38		73
803	Fabrication of an ultrasensitive electrochemical immunosensor for CEA based on conducting long-chain polythiols. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 1-7	11.8	60
802	Sensitive Electrochemical Aptasensor for Thrombin Detection with Platinum Nanoparticles, Blocking Reagent-Horseradish Peroxidase and Graphene Oxide as Enhancers. 2013 , 25, n/a-n/a		1
801	Interaction Between DNA and Some Salicylic Acid Derivatives and Characterization of Their DNA Targets. 2013 , 25, 2547-2556		7
800	Electrochemical single-molecule detection in aqueous solution using self-aligned nanogap transducers. 2013 , 7, 10931-7		68
799	Patterned biochemical functionalization improves aptamer-based detection of unlabeled thrombin in a sandwich assay. 2013 , 5, 12029-35		26
798	Green synthesis and characterization of novel gold nanocomposites for electrochemical sensing applications. <i>Talanta</i> , 2013 , 117, 352-8	6.2	11
797	Point-of-Care Diagnostics on a Chip. 2013 ,		15
796	Novel approach of processing electrical bioimpedance data using differential impedance analysis. 2013 , 35, 1349-57		28
795	Ultrasensitive detection of carcinoembryonic antigen by a simple label-free immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 1044-1050	8.5	39
794	An electrochemical DNA biosensor based on gold nanorods decorated graphene oxide sheets for sensing platform. 2013 , 443, 117-23		73
793	Field-portable lensfree holographic color microscope for telemedicine applications. 2013 ,		
792	A Universal Electrode Approach for Automated Electrochemical Molecular Analyses. 2013 , 22, 1126-1132		14
791	Rapid, Affordable, and Point-of-Care Water Monitoring Via a Microfluidic DNA Sensor and a Mobile Interface for Global Health. 2013 , 1, 3700207		13

790	Quantitative measurement of sugar concentration using in house fabricated microgap biosensor. 2013,		1
789	Optical imaging techniques for point-of-care diagnostics. 2013, 13, 51-67		264
788	Nanoscience-Based Electrochemical Sensors and Arrays for Detection of Cancer Biomarker Proteins. 2013, 1-26		3
787	Biosensors based on nanomechanical systems. 2013, 42, 1287-311		269
786	Electronic Detection Strategies for a MEMS-Based Biosensor. 2013, 22, 276-284		4
785	Investigation of Protein Binding With All Solid-State Ion-Selective Electrodes. 2013, 25, 1887-1894		6
784	A one-step, electrochemical biosensing strategy that is based on transport of signaling CdS nanoparticles controlled by biomolecules. <i>Biosensors and Bioelectronics</i> , 2013, 42, 603-7	11.8	6
783	Colorimetric and electrochemical genosensors for the detection of Escherichia coli DNA without amplification in seawater. <i>Talanta</i> , 2013, 115, 133-42	6.2	39
782	Direct label free ultrasensitive impedimetric DNA biosensor using dendrimer functionalized GaN nanowires. <i>Biosensors and Bioelectronics</i> , 2013, 44, 164-70	11.8	50
781	Cyclic denaturation and renaturation of double-stranded DNA by redox-state switching of DNA intercalators. 2013, 135, 5399-407		20
780	Applications of microfluidics for molecular diagnostics. 2013, 949, 305-34		23
779	Electrochemiluminescent Biosensors: Neuroscience Applications. 2013, 347-367		3
778	Graphene photo detector with integrated waveguide biochemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 319-322	8.5	4
777	Discrimination of single base mismatched oligonucleotides related to the rpoB gene of Mycobacterium tuberculosis using a surface plasmon resonance biosensor. 2013, 60, 453-8		10
776	Label-free, disposable fiber-optic biosensors for DNA hybridization detection. <i>Analyst, The</i> , 2013, 138, 1988-94	5	31
775	Direct Electrochemistry of Hemoglobin on Vertically Aligned Carbon Hybrid TiO ₂ Nanotubes and Its Highly Sensitive Biosensor Performance. 2013, 31, 215-220		9
774	Multiplexed electrochemical protein detection and translation to personalized cancer diagnostics. 2013, 85, 5304-10		103
773	Determinants of the detection limit and specificity of surface-based biosensors. 2013, 85, 6593-7		63

772	Gold Nanostructure LSPR-Based Biosensors for Biomedical Diagnosis. 2013 , 171-188		2
771	A new electrochemical method for the detection of cancer cells based on small molecule-linked DNA. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 329-33	11.8	37
770	Introduction to Biosensors. 2013 ,		6
769	ED-glucosidase assisted gold dissolution as non-optical and quantifiable detection technique for immunoassays. 2013 , 9, 4000-5		3
768	A compact hybrid-multiplexed potentiostat for real-time electrochemical biosensing applications. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 482-9	11.8	28
767	An LTCC-based microfluidic system for label-free, electrochemical detection of cortisol. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 139-146	8.5	86
766	Simultaneous electrochemical immunoassay using CdS/DNA and PbS/DNA nanochains as labels. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 177-82	11.8	74
765	A surface-initiated enzymatic polymerization strategy for electrochemical DNA sensors. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 526-31	11.8	45
764	An automated miniaturized creatinine sensing system. 2013 ,		
763	DNA-modified electrodes fabricated using copper-free click chemistry for enhanced protein detection. 2013 , 29, 16141-9		28
762	Electrochemical real-time nucleic acid amplification: towards point-of-care quantification of pathogens. 2013 , 31, 704-12		50
761	Chronoamperometric magneto immunosensor for myeloperoxidase detection in human plasma based on a magnetic switch produced by 3D laser sintering. 2013 , 85, 9049-56		21
760	Early lung cancer diagnosis by biosensors. 2013 , 14, 15479-509		39
759	Functionalized GaN Based Transistors For Biosensing. 2013 ,		1
758	Ultrahigh-Sensitivity Biomarker Sensing System Based on the Combination of Optical Disc Technologies and Nanobead Technologies. 2013 , 52, 09LB02		3
757	A stacked electrode set including suspended carbon nanomeshes and planar carbon pads for electrochemical/bio sensor applications. 2013 ,		
756	. 2013 ,		1
755	Polymers for Biosensors Construction. 2013 ,		10

754	. 2014,		5
753	Nanoelectrodes for Biomedical Applications. 2014, 385-412		
752	Recent developments in optical detection technologies in lab-on-a-chip devices for biosensing applications. <i>Sensors</i> , 2014, 14, 15458-79	3.8	173
751	An electrochemical impedimetric aptasensing platform for sensitive and selective detection of small molecules such as chloramphenicol. <i>Sensors</i> , 2014, 14, 12059-69	3.8	52
750	Biosensors for the detection of circulating tumour cells. <i>Sensors</i> , 2014, 14, 4856-75	3.8	34
749	Ultra sensitive CMOS biosensor array for label free DNA detection: Circuit design consideration. 2014,		
748	Screening of Specific Gene Mutations Associated with Cystic Fibrosis. 2014, 26, 1362-1372		6
747	Prototyping of wrinkled nano-/microstructured electrodes for electrochemical DNA detection. 2014, 86, 12341-7		32
746	Glucose waveguide sensor based on graphene. 2014,		1
745	Electrochemical Sensor and Biosensors. 2014, 155-165		1
744	Sensitivity improvement of a miniaturized label-free electrochemical impedance biosensor by electrode edge effect. 2014, 13, 033019		5
743	Electrochemical evaluation of anti-CRP/CRP interaction for the molecular diagnosis of the cardiovascular risk. 2014, 8,		78
742	Sensors and Lab-on-a-Chip. 2014, 615-650		
741	Electrochemical Sensors: Practical Approaches. 2014, 529-568		1
740	Fabrication and application of a stacked carbon electrode set including a suspended mesh made of nanowires and a substrate-bound planar electrode toward for an electrochemical/biosensor platform. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 796-803	8.5	21
739	Construction and validation of a Sambucus nigra biosensor for cancer-associated STn antigen. <i>Biosensors and Bioelectronics</i> , 2014, 57, 254-61	11.8	19
738	Real-time electrocatalytic sensing of cellular respiration. <i>Biosensors and Bioelectronics</i> , 2014, 57, 303-9	11.8	6
737	Mathematical modeling of biosensor action in the region between diffusion and kinetic modes. 2014, 52, 689-702		3

736	Advances in enzyme-free electrochemical sensors for hydrogen peroxide, glucose, and uric acid. <i>Mikrochimica Acta</i> , 2014 , 181, 689-705	5.8	268
735	Investigation of anticancer drug lapatinib and its interaction with dsDNA by electrochemical and spectroscopic techniques. <i>Sensors and Actuators B: Chemical</i> , 2014 , 194, 185-194	8.5	55
734	Recent advances in cortisol sensing technologies for point-of-care application. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 499-512	11.8	182
733	An electrochemical immunosensor for detection of a breast cancer biomarker based on antiHER2-iron oxide nanoparticle bioconjugates. <i>Analyst, The</i> , 2014 , 139, 2858-66	5	80
732	Redox cycling-based amplifying electrochemical sensor for in situ clozapine antipsychotic treatment monitoring. 2014 , 130, 497-503		34
731	Reconstitution of supramolecular organization involved in energy metabolism at electrochemical interfaces for biosensing and bioenergy production. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1011-27	4.4	17
730	Spatiotemporal Fluorescent Detection Measurements Using Embedded Waveguide Sensors. 2014 , 20, 166-172		
729	Nanomaterials and biomaterials in electrochemical arrays for protein detection. 2014 , 2,		50
728	A Fully Microfabricated Electrochemical Sensor and its Implementation for Detection of Methicillin Resistance in Staphylococcus Aureus. 2014 , 14, 1844-1851		6
727	Folding analytical devices for electrochemical ELISA in hydrophobic R(H) paper. 2014 , 86, 11999-2007		118
726	Chitosan/AuNPs Modified Graphene Electrochemical Sensor for Label-Free Human Chorionic Gonadotropin Detection. 2014 , 26, 2591-2598		16
725	The use of modified electrodes by hybrid systems gold nanoparticles/Mn-porphyrin in electrochemical detection of cysteine. 2014 , 198, 335-339		26
724	Paper-based electrochemical immunoassay for rapid, inexpensive cancer biomarker protein detection. 2014 , 6, 8878-8881		26
723	A chitosan-Au-hyperbranched polyester nanoparticles-based antifouling immunosensor for sensitive detection of carcinoembryonic antigen. <i>Analyst, The</i> , 2014 , 139, 4216-22	5	13
722	Electrodeposition from supercritical fluids. 2014 , 16, 9202-19		36
721	A low-cost miniaturized potentiostat for point-of-care diagnosis. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 249-54	11.8	103
720	Enhanced biosensing resolution with foundry fabricated individually addressable dual-gated ISFETs. 2014 , 86, 8359-67		33
719	Electrochemical-chemical-chemical redox cycling triggered by thiocholine and hydroquinone with ferrocenecarboxylic acid as the redox mediator. 2014 , 139, 323-330		24

7 ¹⁸	High-performance multipanel biosensors based on a selective integration of nanographite petals. 2014 , 14, 3180-4		16
7 ¹⁷	Development and impedimetric evaluation of a magnetic interdigitated microelectrode. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 444-451	8.5	3
7 ¹⁶	Intrinsically conducting polymer nanowires for biosensing. 2014 , 2, 4593-4609		40
7 ¹⁵	Searching for life on Mars: degradation of surfactant solutions used in organic extraction experiments. 2014 , 14, 733-52		5
7 ¹⁴	Sequence specific detection of restriction enzymes at DNA-modified carbon nanotube field effect transistors. 2014 , 86, 8628-33		14
7 ¹³	Silica Nanowires: Growth, Integration, and Sensing Applications. <i>Mikrochimica Acta</i> , 2014 , 181, 1759-1780.8		34
7 ¹²	On the origin of enhanced sensitivity in nanoscale FET-based biosensors. 2014 , 111, 5111-6		110
7 ¹¹	Advances in biosensors: Principle, architecture and applications. 2014 , 12, 1-15		296
7 ¹⁰	Electrochemical deposition of gold nanoparticles on graphite rod for glucose biosensing. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 25-34	8.5	61
7 ⁰⁹	Biologically inspired nanofibers for use in translational bioanalytical systems. 2014 , 7, 23-42		17
7 ⁰⁸	Paper-based electrochemical cyto-device for sensitive detection of cancer cells and in situ anticancer drug screening. 2014 , 847, 1-9		74
7 ⁰⁷	Biotin-Labeled Electropolymerized Network of Gold Nanoparticles for Amperometric Immunodetection of Human Fibrinogen. 2014 , 1, 200-206		1
7 ⁰⁶	Motor-based autonomous microsensor for motion and counting immunoassay of cancer biomarker. 2014 , 86, 4501-7		100
7 ⁰⁵	Fully integrated CMOS microsystem for electrochemical measurements on 32 B2 working electrodes at 90 frames per second. 2014 , 86, 6425-32		48
7 ⁰⁴	Electrochemical detection of glycan and protein epitopes of glycoproteins in serum. <i>Analyst, The</i> , 2014 , 139, 5970-6	5	10
7 ⁰³	Graphene-DNA electrochemical sensor for the sensitive detection of BRCA1 gene. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 777-782	8.5	80
7 ⁰²	Impedimetric DNA detection--steps forward to sensorial application. 2014 , 86, 7867-74		35
7 ⁰¹	Electrochemical monitoring of surface confined interaction between 6-Thioguanine and DNA by using single-use graphite electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 733, 33-38	4.1	12

700	Screen-printed electrodes for biosensing: a review (2008–2013). <i>Mikrochimica Acta</i> , 2014 , 181, 865-891	5.8	298
699	Ultrasensitive enzyme-free electrochemical immunosensor based on hybridization chain reaction triggered double strand DNA@Au nanoparticle tag. <i>Talanta</i> , 2014 , 120, 218-23	6.2	27
698	Electrochemical immunosensor based on hyperbranched structure for carcinoembryonic antigen detection. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 9-16	11.8	46
697	The Contribution of Smart Materials and Advanced Clinical Diagnostic Micro- Devices on the Progress and Improvement of Human Health Care. 2014 , 203-236		
696	Cancer glycan biomarkers and their detection [past, present and future. 2014 , 6, 3918-3936		49
695	Rapid prototyping of multifunctional microfluidic cartridges for electrochemical biosensing platforms. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 60-66	8.5	20
694	Continuous monitoring of Naproxen by a cytochrome P450-based electrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 283-7	11.8	47
693	Personalized diagnostics and biosensors: a review of the biology and technology needed for personalized medicine. 2014 , 34, 180-96		136
692	Energetic Graphene-Based Electrochemical Analytical Devices in Nucleic Acid, Protein and Cancer Diagnostics and Detection. 2014 , 26, 14-29		23
691	Utilizing embedded optofluidic sensors for fluorescent detection measurements in space and time. 2014 ,		
690	Studies on Carbon Mediated Paste Screen Printed Sensors for Blood Glucose Sensing Application. 2015 , 4, S3077-S3082		2
689	Bioanalytical Chemistry, Biosensors. 2015 , 1-24		
688	- Electrochemical Nucleic Acid AptamerBased Biosensors. 2015 , 90-107		1
687	Synthetic methodology for asymmetric ferrocene derived bio-conjugate systems via solid phase resin-based methodology. 2015 ,		
686	Cathode photoelectrochemical immunoassay based on analyte-induced formation of exciton trapping for carcinoembryonic antigen detection. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 757, 192-197	4.1	10
685	Reprint of "Cathode photoelectrochemical immunoassay based on analyte- induced formation of exciton trapping for carcinoembryonic antigen detection". <i>Journal of Electroanalytical Chemistry</i> , 2015 , 759, 55-60	4.1	3
684	Lateral Flow Immunoassays [From Paper Strip to Smartphone Technology. 2015 , 27, 2116-2130		71
683	Nanoprobes for enhanced electrochemical DNA sensors. 2015 , 7, 817-27		7

682	Electrochemical Label-Free Nucleotide Sensors. 2015 , 10, 2560-73		8
681	A Ruthenium Based Organometallic Complex for Biosensing that is both a Stable Redox Label and a Homobifunctional Linker. 2015 , 27, 1078-1085		7
680	A reflectometric interferometric nanosensor for sarcosine. 2015 , 31, 55-61		14
679	Analytical characterization of label-free immunosensor subsystems based on multi-walled carbon nanotube array-modified gold interface. 2015 , 18, 83-8		5
678	Research on Application of Electrochemical Immune Sensors in Food Safety Detection. 2015 , 9, 475-481		
677	Facile Attachment of TAT Peptide on Gold Monolayer Protected Clusters: Synthesis and Characterization. 2015 , 5, 1211-1222		11
676	A Sensitive and Selective Label-Free Electrochemical DNA Biosensor for the Detection of Specific Dengue Virus Serotype 3 Sequences. <i>Sensors</i> , 2015 , 15, 15562-77	3.8	51
675	Biocompatible enzymatic roller pens for direct writing of biocatalytic materials: "do-it-yourself" electrochemical biosensors. 2015 , 4, 1215-24		50
674	Towards a blocking-free electrochemical immunosensing strategy for anti-transglutaminase antibodies using screen-printed electrodes. 2015 , 105, 88-94		25
673	Reduced graphene oxide modified smart conducting paper for cancer biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 73, 114-122	11.8	114
672	Rhodium nanoparticle-mesoporous silicon nanowire nanohybrids for hydrogen peroxide detection with high selectivity. 2015 , 5, 7792		13
671	Electrochemical nanoparticle-enzyme sensors for screening bacterial contamination in drinking water. <i>Analyst, The</i> , 2015 , 140, 4991-6	5	54
670	An electrochemical facile fabrication of platinum nanoparticle decorated reduced graphene oxide; application for enhanced electrochemical sensing of H ₂ O ₂ . 2015 , 5, 105567-105573		23
669	pH dependence of non-specific adsorption and detection solution in electrochemical metalloimmunoassay using antibody/silver nanoparticle conjugates. <i>Sensing and Bio-Sensing Research</i> , 2015 , 5, 78-83	3.3	2
668	Functionalized Nanofiber Meshes Enhance Immunosorbent Assays. 2015 , 87, 11863-70		14
667	Real-Time Evaluation of Live Cancer Cells by an in Situ Surface Plasmon Resonance and Electrochemical Study. 2015 , 7, 24848-54		23
666	Quartz-Crystal Microbalance (QCM) for Public Health: An Overview of Its Applications. 2015 , 101, 149-211		20
665	Point-of-care cardiac troponin test accurately predicts heat stroke severity in rats. 2015 , 309, R1264-72		8

664	Personalized Oral Health Care. 2015 ,		2
663	Liquid Metal Ink Enabled Rapid Prototyping of Electrochemical Sensor for Wireless Glucose Detection on the Platform of Mobile Phone. 2015 , 9,		9
662	A simple and highly sensitive electrochemical platform for detection of MicroRNAs. 2015 ,		3
661	A Smart Mobile Lab-on-Chip-Based Medical Diagnostics System Architecture Designed for Evolvability. 2015 ,		5
660	Facile electrochemical detection of Escherichia coli using redox cycling of the product generated by the intracellular β -galactosidase. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 951-956	8.5	17
659	Redox-tagged peptide for capacitive diagnostic assays. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 281-287	11.8	31
658	Heterogeneously integrated impedance measuring system with disposable thin-film electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 77-82	8.5	6
657	Detection of Biomarkers for Different Diseases on Biosensor Surfaces Part II. 2015 , 525-558		
656	Core-shell gold-silver nanoparticles based impedimetric immunosensor for cancer antigen CA125. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 557-564	8.5	42
655	Cell constant studies of bipolar and tetrapolar electrode systems for impedance measurement. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1264-1270	8.5	17
654	Interplay between the potential waveform and diffusion layer dynamics determines the time-response of voltammetric detection in microchannels. 2015 , 166, 223-231		
653	Electrochemical sensors based on carbon nanomaterials for acetaminophen detection: A review. 2015 , 886, 16-28		101
652	Enabling the Development and Deployment of Next Generation Point-of-Care Diagnostics. 2015 , 9, e0003676		41
651	Graphene nanodots encaged 3-D gold substrate as enzyme loading platform for the fabrication of high performance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 1186-1195	8.5	23
650	Towards a dynamic clamp for neurochemical modalities. <i>Sensors</i> , 2015 , 15, 10465-80	3.8	4
649	Development of Low Molecular Weight Ferrocene-Biotin Bioconjugates as Electrochemical Sensors. 2015 , 34, 918-925		5
648	Modification of glassy carbon electrode with a bilayer of multiwalled carbon nanotube/tiron-doped polypyrrole: Application to sensitive voltammetric determination of acyclovir. 2015 , 53, 134-41		43
647	Cancer biomarker detection: recent achievements and challenges. 2015 , 44, 2963-97		633

646	A novel antibody-antigen based impedimetric immunosensor for low level detection of HER2 in serum samples of breast cancer patients via modification of a gold nanoparticles decorated multiwall carbon nanotube-ionic liquid electrode. 2015 , 874, 66-74		113
645	Carbon nanotube/polymer composite electrodes for flexible, attachable electrochemical DNA sensors. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 414-419	11.8	42
644	Automated multiplexed ECL Immunoarrays for cancer biomarker proteins. 2015 , 87, 4472-8		98
643	π -Allylpalladium Complexes with Tridentate PNPLigand for the Assembly of Modified Screen Printed Electrodes: an Electrochemical Study. 2015 , 27, 1479-1489		0
642	Integrated electrochemical microsystems for genetic detection of pathogens at the point of care. 2015 , 48, 911-20		116
641	. 2015 , 103, 236-247		134
640	Enzymatic electrochemical detection of epidemic-causing <i>Vibrio cholerae</i> with a disposable oligonucleotide-modified screen-printed biosensor coupled to a dry-reagent-based nucleic acid amplification assay. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 282-8	11.8	15
639	Micro-capillary-based evanescent field biosensor for sensitive, label-free DNA detection. 2015 , 23, 20686-95		13
638	Electrochemical DNA biosensor based on a glassy carbon electrode modified with gold nanoparticles and graphene for sensitive determination of <i>Klebsiella pneumoniae</i> carbapenemase. 2015 , 214, 133-8		19
637	Low-cost Nano-spike Bio-Impedance Sensor (NBIS) without surface functionalization for detection and phenotyping of cancer cells. 2015 ,		2
636	Needle-implantable, wireless biosensor for continuous glucose monitoring. 2015 ,		4
635	Quantum dot-based microfluidic biosensor for cancer detection. 2015 , 106, 193703		21
634	Microring bio-chemical sensor with integrated low dark current Ge photodetector. 2015 , 106, 101111		19
633	Application of Nanoparticles in Manufacturing. 2015 , 1-53		2
632	Electrochemical aptamer scaffold biosensors for detection of botulism and ricin toxins. 2015 , 51, 15137-40		25
631	Ultrasensitive electrochemical immunosensor for carbohydrate antigen 19-9 using Au/porous graphene nanocomposites as platform and Au@Pd core/shell bimetallic functionalized graphene nanocomposites as signal enhancers. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 356-62	11.8	74
630	Attomolar detection of BRCA1 gene based on gold nanoparticle assisted signal amplification. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 333-40	11.8	22
629	The latest developments in quantifying cyanide and hydrogen cyanide. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 64, 75-85	14.6	70

628	Ratiometric electrochemical detection of alkaline phosphatase. 2015 , 51, 561-4		122
627	Biosensor Regeneration: A Review of Common Techniques and Outcomes. 2015 , 31, 6267-76		196
626	An ultrasensitive supersandwich electrochemical DNA biosensor based on gold nanoparticles decorated reduced graphene oxide. 2015 , 469, 71-5		67
625	Bio-nanogate controlled enzymatic reaction for virus sensing. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 400-7	11.8	30
624	A reusable aptamer-based evanescent wave all-fiber biosensor for highly sensitive detection of Ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 11-8	11.8	82
623	Cyto-sensing in electrochemical lab-on-paper cyto-device for in-situ evaluation of multi-glycan expressions on cancer cells. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 232-239	11.8	46
622	Basics of DNA biosensors and cancer diagnosis. 2016 , 44, 654-63		25
621	Recent Trends in Field-Effect Transistors-Based Immunosensors. <i>Chemosensors</i> , 2016 , 4, 20	4	60
620	Evolvable Smartphone-Based Platforms for Point-of-Care In-Vitro Diagnostics Applications. 2016 , 6,		9
619	Opto-Microfluidic Immunosensors: From Colorimetric to Plasmonic. 2016 , 7,		13
618	Biosensors Incorporating Bimetallic Nanoparticles. 2015 , 6,		37
617	Recent Progress in Electrochemical Biosensors for Glycoproteins. <i>Sensors</i> , 2016 , 16,	3.8	18
616	Live demonstration: A portable multi-channel potentiostat for real-time amperometric measurement of multi-electrode sensor arrays. 2016 ,		2
615	Recent advances in metamaterial split-ring-resonator circuits as biosensors and therapeutic agents. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 595-608	11.8	67
614	Biomimetic Sensor for Dobutamine Employing Nano- TiO ₂ /Nafion/Carbon Nanoparticles Modified Electrode. 2016 , 28, 970-978		15
613	Multiplex Immunosensor Arrays for Electrochemical Detection of Cancer Biomarker Proteins. 2016 , 28, 2644-2658		65
612	A label-free multi-functionalized electrochemical aptasensor based on a Fe ₃ O ₄ @3D-rGO@plasma-polymerized (4-vinyl pyridine) nanocomposite for the sensitive detection of proteins in whole blood. 2016 , 212, 1-9		8
611	Nanomaterials based biosensors for cancer biomarker detection. 2016 , 704, 012011		26

610	Control of Electron-transfer in Immunonanosensors by Using Polyclonal and Monoclonal Antibodies. 2016 , 28, 1795-1802		3
609	Construction of Electrochemical Immunosensing Interface for Multiple Cancer Biomarkers Detection. 2016 , 28, 1692-1699		14
608	Development of Electrochemical Immunosensors towards Point-of-care Cancer Diagnostics: Clinically Relevant Studies. 2016 , 28, 1716-1729		29
607	Design of a molecular imprinting biosensor with multi-scale roughness for detection across a broad spectrum of biomolecules. <i>Analyst, The</i> , 2016 , 141, 5607-17	5	47
606	High-contrast grating resonators for label-free detection of disease biomarkers. 2016 , 6, 27482		32
605	Application of flat panel OLED display technology for the point-of-care detection of circulating cancer biomarkers. 2016 , 6, 29057		20
604	Low-energy biomarker detection through charge-based impedance measurements. 2016 ,		
603	Site-specific scFv labelling with invertase via Sortase A mechanism as a platform for antibody-antigen detection using the personal glucose meter. 2016 , 6, 19338		17
602	Conducting Polymer-based Electrochemical DNA Biosensing. 2016 , 485-500		
601	Influence of aspect ratio of magnetite coated gold nanorods in hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 492-497	8.5	17
600	Bacteriophage immobilized graphene electrodes for impedimetric sensing of bacteria (<i>Staphylococcus arlettae</i>). 2016 , 505, 18-25		49
599	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	8.5	63
598	A New Wrinkle in Biosensors: Wrinkled electrodes could be a breakthrough for lab-on-a-chip devices.. 2016 , 10, 6-18		6
597	Quantitative real-time detection of carcinoembryonic antigen (CEA) from pancreatic cyst fluid using 3-D surface molecular imprinting. <i>Analyst, The</i> , 2016 , 141, 4424-31	5	60
596	Methylene blue not ferrocene: Optimal reporters for electrochemical detection of protease activity. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 82-8	11.8	29
595	Approaches towards molecular amplification for sensing. <i>Analyst, The</i> , 2016 , 141, 3157-218	5	37
594	Reduced graphene oxide-nickel nanoparticles/biopolymer composite films for the sub-millimolar detection of glucose. <i>Analyst, The</i> , 2016 , 141, 4151-61	5	10
593	Embroidered electrochemical sensors for biomolecular detection. 2016 , 16, 2093-8		47

592	Detection of p53 Protein Based on Mesoporous PtPd Nanoparticles with Enhanced Peroxidase-like Catalysis. 2016 , 1, 717-724		61
591	Reduced graphene oxide-yttria nanocomposite modified electrode for enhancing the sensitivity of electrochemical genosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 361-7	11.8	26
590	A novel label-free microfluidic paper-based immunosensor for highly sensitive electrochemical detection of carcinoembryonic antigen. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 319-26	11.8	99
589	Novel iron (III) phthalocyanine derivative functionalized semiconductor based transducers for the detection of citrate. 2016 , 34, 200-207		17
588	A novel MnO ₂ with carbon nanotubes nanocomposite as an enzyme-free sensor for hydrogen peroxide electroensing. 2016 , 6, 50572-50580		49
587	Synthesis and deposition of a Tröger's base polymer on the electrode surface for potentiometric detection of a neuroblastoma tumor marker metabolite. 2016 , 52, 11991-11994		8
586	High-efficient and high-content cytotoxic recording via dynamic and continuous cell-based impedance biosensor technology. 2016 , 18, 94		7
585	Polymeric Micellar Structures for Biosensor Technology. 2016 , 24, 143-161		25
584	A portable multi-channel potentiostat for real-time amperometric measurement of multi-electrode sensor arrays. 2016 ,		2
583	Amperometric IFN- γ immunosensors with commercially fabricated PCB sensing electrodes. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 805-810	11.8	32
582	Sensitive and Selective Detection of HIV-1 RRE RNA Using Vertical Silicon Nanowire Electrode Array. 2016 , 11, 341		9
581	Thin-layer voltammetry of soluble species on screen-printed electrodes: proof of concept. <i>Analyst, The</i> , 2016 , 141, 5996-6001	5	6
580	Nanoscience in Food and Agriculture 1. 2016 ,		11
579	Nanotechnology Definitions, Research, Industry and Property Rights. 2016 , 43-64		3
578	Prospective Materials for Rapid Tests: Examples of Multifunctionality and Multiplexity. 2016 , 72, 163-193		
577	Real-time Monitoring and Detection of Primer Generation-Rolling Circle Amplification of DNA Using an Ethidium Ion-selective Electrode. 2016 , 32, 505-10		7
576	Gold Nanoparticle Coated Silica Nanorods for Sensitive Visual Detection of microRNA on a Lateral Flow Strip Biosensor. 2016 , 32, 617-22		24
575	Unique Sensing Interface That Allows the Development of an Electrochemical Immunosensor for the Detection of Tumor Necrosis Factor α in Whole Blood. 2016 , 1, 1432-1438		52

574	Towards the electrochemical diagnosis of cancer: nanomaterial-based immunosensors and cytosensors. 2016 , 6, 111831-111841		12
573	High-Throughput Electrochemical Microfluidic Immunoarray for Multiplexed Detection of Cancer Biomarker Proteins. 2016 , 1, 1036-1043		63
572	Biosensors for Early Disease Diagnosis. 2016 , 235-270		0
571	Development of electrochemical genosensor for MYCN oncogene detection using rhodamine B as electroactive label. 2016 , 20, 2411-2418		10
570	Microfluidic Immuno-Biochip for Detection of Breast Cancer Biomarkers Using Hierarchical Composite of Porous Graphene and Titanium Dioxide Nanofibers. 2016 , 8, 20570-82		123
569	Multianalyte Antibiotic Detection on an Electrochemical Microfluidic Platform. 2016 , 88, 10036-10043		60
568	Conductive Paper with Antibody-Like Film for Electrical Readings of Biomolecules. 2016 , 6, 26132		19
567	Highly sensitive dual mode electrochemical platform for microRNA detection. 2016 , 6, 36719		52
566	Construction of biomolecular sensors based on quantum dots. 2016 , 6, 109009-109022		3
565	(Pc)Eu(Pc)Eu[trans-T(COOCH)PP]/GO Hybrid Film-Based Nonenzymatic HO Electrochemical Sensor with Excellent Performance. 2016 , 8, 30398-30406		30
564	Experimental and theoretical investigation of the precise transduction mechanism in giant magnetoresistive biosensors. 2016 , 6, 18692		20
563	Highly Disordered Array of Silicon Nanowires: an Effective and Scalable Approach for Performing and Flexible Electrochemical Biosensors. 2016 , 5, 575-83		18
562	Human neutrophil elastase peptide sensors conjugated to cellulosic and nanocellulosic materials: part I, synthesis and characterization of fluorescent analogs. <i>Cellulose</i> , 2016 , 23, 1283-1295	5.5	20
561	Glycoprotein assay based on the optimized immittance signal of a redox tagged and lectin-based receptive interface. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 368-78	11.8	13
560	Dyes as bifunctional markers of DNA hybridization on surfaces and mutation detection. 2016 , 111, 115-22		11
559	Nanomaterials-based electrochemical immunosensors for cardiac troponin recognition: An illustrated review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 337-347	14.6	47
558	Immobilization of horseradish peroxidase on titanate nanowires for biosensing application. 2016 , 46, 17-25		8
557	Electrochemical biosensors based on nanofibres for cardiac biomarker detection: A comprehensive review. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 513-523	11.8	69

556	Rapid and sensitive detection of small biomolecule by capacitive sensing and low field AC electrothermal effect. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 245-253	8.5	49
555	A novel biosensor nanomaterial for the ultrasensitive and ultrasensitive electrochemical diagnosis of the breast cancer-related BRCA1 gene. 2016 , 8, 3069-3074		14
554	Label- and amplification-free electrochemical detection of bacterial ribosomal RNA. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 487-494	11.8	30
553	Materiomics for Oral Disease Diagnostics and Personal Health Monitoring: Designer Biomaterials for the Next Generation Biomarkers. 2016 , 20, 12-29		3
552	Improving charge-sensitive biomolecule sensors with the right choice of electrolyte. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 281-288	8.5	3
551	Glucose Sensors. 2016 , 213-228		1
550	High specific surface gold electrode on polystyrene substrate: Characterization and application as DNA biosensor. <i>Talanta</i> , 2016 , 152, 301-7	6.2	8
549	Portable microfluidic and smartphone-based devices for monitoring of cardiovascular diseases at the point of care. 2016 , 34, 305-20		93
548	Adsorption according to the Langmuir-Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. 2016 , 18, 8412-8		45
547	<i>Vibrio cholerae</i> detection: Traditional assays, novel diagnostic techniques and biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 199-209	14.6	17
546	Non-enzymatic amperometric detection of hydrogen peroxide in human blood serum samples using a modified silver nanowire electrode. 2016 , 470, 117-122		24
545	Multiplex in vitro detection using SERS. 2016 , 45, 1901-1918		225
544	Factors influencing polyelectrolyte-aptamer multilayered films with target-controlled permeability for sensing applications. <i>Analyst, The</i> , 2016 , 141, 3794-802	5	4
543	A simple microfluidic aggregation analyzer for the specific, sensitive and multiplexed quantification of proteins in a serum environment. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1062-9	11.8	10
542	Biomedical Perspective of Electrochemical Nanobiosensor. 2016 , 8, 193-203		43
541	Label-free biomolecular detection at electrically displaced liquid interfaces using interfacial electrokinetic transduction (IET). <i>Biosensors and Bioelectronics</i> , 2016 , 77, 790-8	11.8	12
540	Multiple biomarkers biosensor with just-in-time functionalization: Application to prostate cancer detection. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1192-200	11.8	19
539	Development of impedimetric DNA biosensor for selective detection and discrimination of oligonucleotide sequences of the rpoB gene of <i>Mycobacterium tuberculosis</i> . <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 1152-1158	8.5	15

538	3D-printed supercapacitor-powered electrochemiluminescent protein immunoarray. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 188-93	11.8	123
537	A signal-on electrochemical DNA biosensor based on potential-assisted Cu(I)-catalyzed azide-alkyne cycloaddition mediated labeling of hairpin-like oligonucleotide with electroactive probe. <i>Talanta</i> , 2016 , 147, 516-22	6.2	11
536	A novel nonenzymatic amperometric hydrogen peroxide sensor based on CuO@Cu ₂ O nanowires embedded into poly(vinyl alcohol). <i>Talanta</i> , 2016 , 147, 124-31	6.2	92
535	Development and Characterization of Carbon Based Electrodes from Pyrolyzed Paper for Biosensing Applications. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 765, 8-15	4.1	36
534	Fabrication of graphene/gold-modified screen-printed electrode for detection of carcinoembryonic antigen. 2016 , 58, 666-74		49
533	Self-propelled affinity biosensors: Moving the receptor around the sample. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 234-42	11.8	95
532	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 195-212	11.8	271
531	Lab-on-a-CD: A Fully Integrated Molecular Diagnostic System. 2016 , 21, 323-55		62
530	Characterization of a novel antibody immobilization combining protein G with parylene-H for surface plasmon resonance immunosensors. 2016 , 22, 2093-2099		2
529	Using nanogap in label-free impedance based electrical biosensors to overcome electrical double layer effect. 2017 , 23, 889-897		4
528	The application of graphene for in vitro and in vivo electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 224-233	11.8	54
527	2D nanomaterials based electrochemical biosensors for cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 136-151	11.8	147
526	A novel sandwiched electrochemiluminescence immunosensor for the detection of carcinoembryonic antigen based on carbon quantum dots and signal amplification. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 453-460	11.8	84
525	Nanostructured NiO-based reagentless biosensor for total cholesterol and low density lipoprotein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1995-2005	4.4	20
524	In Situ Spectroelectrochemical Fluorescence Microscopy for Visualizing Interfacial Structure and Dynamics in Self-assembled Monolayers. 2017 , 21-77		9
523	Microfluidic biochips for simple impedimetric detection of thrombin based on label-free DNA aptamers. 2017 , 11, 109-115		16
522	Generation of digitized microfluidic filling flow by vent control. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 465-471	11.8	6
521	Electrochemical Biosensors in Point-of-Care Devices: Recent Advances and Future Trends. 2017 , 4, 778-794		155

520	A comprehensive assessment on nano biosensor to sense cancer cells. 2017 , 23, 821-827		3
519	Paper: A promising material for human-friendly functional wearable electronics. 2017 , 112, 1-22		100
518	Ratiometric electrochemical detection of hydrogen peroxide and glucose. 2017 , 15, 2459-2466		16
517	Comparison of unusual carbon-based working electrodes for electrochemiluminescence sensors. 2017 , 75, 402-407		1
516	An electrochemical sensor device for measuring blood ammonia at the point of care. <i>Talanta</i> , 2017 , 167, 296-301	6.2	24
515	Flexible Microgap Electrodes by Direct Inkjet Printing for Biosensing Application. 2017 , 1, 1600016		18
514	Ratiometric electrochemical detection of Pd ^{II} interactions: application towards electrochemical molecular logic gates. 2017 , 29, 749-757		2
513	Detecting and identifying DNA via the THz backbone frequency using a metamaterial-based label-free biosensor. 2017 ,		3
512	Plasmonic-electrochemical dual modality microfluidic sensor for cancer biomarker detection. 2017 ,		1
511	Electrochemical DNA sensors based on the use of gold nanoparticles: a review on recent developments. <i>Mikrochimica Acta</i> , 2017 , 184, 981-1000	5.8	84
510	Electrochemical immunosensor based on ZnO nanorods-Au nanoparticles nanohybrids for ovarian cancer antigen CA-125 detection. 2017 , 76, 1240-1247		62
509	Irradiation effects on antibody performance in the frame of biochip-based instruments development for space exploration. 2017 , 16, 82-90		10
508	Non-invasive diagnosis of oral cancer: The role of electro-analytical methods and nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 91, 125-137	14.6	36
507	Electrochemical DNA-Based Immunoassay That Employs Steric Hindrance To Detect Small Molecules Directly in Whole Blood. 2017 , 2, 718-723		32
506	Immunosensor assembled on polymeric nanostructures for clinical diagnosis of C-reactive protein. <i>Microchemical Journal</i> , 2017 , 133, 572-576	4.8	14
505	Multistate proteinous biomemory device based on redox controllable hapten cross-linker. 2017 , 79, 336-342		8
504	Recent progress in electrochemical sensing of cardiac troponin by using nanomaterial-induced signal amplification. <i>Mikrochimica Acta</i> , 2017 , 184, 1573-1585	5.8	25
503	L-Proline bio-inspired synthesis of AuPt nanocallistrand as sensing platform for label-free electrochemical immunoassay of carbohydrate antigen 19-9. <i>Sensors and Actuators B: Chemical</i> , 2017 , 250, 61-68	8.5	23

502	Synthesis and electropolymerization of EDOT modified 1,3-bis(5-methyl-2-thiazolylimino)isoindolinato palladium(II) complex for electrochemical detection of hydrogen peroxide. 2017 , 70, 2052-2060		4
501	Perovskite-type calcium titanate nanoparticles as novel matrix for designing sensitive electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 220-226	11.8	31
500	Top-down fabrication meets bottom-up synthesis for nanoelectronic barcoding of microparticles. 2017 , 17, 1939-1947		18
499	Competitive electrochemical biosensing of biotin using cadmium-modified titanium phosphate nanoparticles and 8-channel screen-printed disposable electrodes. 2017 , 9, 3983-3991		8
498	Recent Advances in Ion-selective membrane electrodes for in situ environmental water analysis. 2017 , 245, 1023-1034		95
497	Clinically Relevant Detection of Streptococcus pneumoniae with DNA-Antibody Nanostructures. 2017 , 89, 6900-6906		52
496	Ultrasensitive detection of DNA based on target-triggered hairpin assembly and exonuclease-assisted recycling amplification. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 306-312	8.5	8
495	Label-free electrochemical detection of neuraminidase activity: A facile whole blood diagnostic probe for infectious diseases. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 641-648	8.5	8
494	Electrochemical Biosensors: Electrode Development, Materials, Design, and Fabrication. 2017 , 4, 92-105		53
493	Improvement in Efficiency of the Electrocatalytic Reduction of Hydrogen Peroxide by Prussian Blue Produced from the [Fe(CN) ₅ (mpz)] ₂ Complex. 2017 , 2017, 1979-1988		10
492	An Electrochemical Biosensor Based on AuNP-Modified Gold Electrodes for Selective Determination of Serum Levels of Osteocalcin. 2017 , 17, 3367-3374		15
491	A novel enzyme-free sandwich-like electrochemical immunosensor for the detection of carbohydrate antigen 15-3 based on hierarchical AuPd nanochain networks. <i>Sensors and Actuators B: Chemical</i> , 2017 , 247, 349-356	8.5	11
490	Electrochemical Biosensors Combined with Isothermal Amplification for Quantitative Detection of Nucleic Acids. 2017 , 1572, 135-151		1
489	Automated 3D-printed unibody immunoarray for chemiluminescence detection of cancer biomarker proteins. 2017 , 17, 484-489		54
488	An Audio Jack-Based Electrochemical Impedance Spectroscopy Sensor for Point-of-Care Diagnostics. 2017 , 17, 589-597		16
487	Detection of ESAT-6 by a label free miniature immuno-electrochemical biosensor as a diagnostic tool for tuberculosis. 2017 , 74, 465-470		20
486	Electron Transfer Mediated by Surface-Tethered Redox Groups in Nanofluidic Devices. 2017 , 13, 1603268		5
485	Nanomaterials connected to antibodies and molecularly imprinted polymers as bio/receptors for bio/sensor applications. 2017 , 9, 387-401		44

484	Designing of a new label-free electrochemical impedimetric nanosensor based on selective interaction sequence of l-lysine with activase kringle domains for sensitive detection of activase protein. 2017 , 248, 60-65		2
483	Fullerene Black Modified Screen Printed Electrodes for the Quantification of Acetaminophen and Guanine. 2017 , 29, 2863-2872		10
482	Ratiometric electrochemical detection of β -galactosidase. 2017 , 15, 7122-7126		7
481	Surface modification of ZnO nanostructured electrodes with thiol and phosphonic acid moieties for biosensing applications. 2017 , 9, 5525-5533		12
480	Highly Sensitive Detection of Protein Biomarkers with Organic Electrochemical Transistors. 2017 , 29, 1703787		109
479	Enhanced anodic electrochemiluminescence of CdTe quantum dots based on electrocatalytic oxidation of a co-reactant by dendrimer-encapsulated Pt nanoparticles and its application for sandwiched immunoassays. <i>Analyst, The</i> , 2017 , 142, 3934-3941	5	9
478	A highly sensitive electrochemical biosensor based on AuNP-modified gold electrodes for selective determination of serum levels of crosslaps. 2017 , 7, 312		3
477	Carbon Dots-AS1411 Aptamer Nanoconjugate for Ultrasensitive Spectrofluorometric Detection of Cancer Cells. 2017 , 7, 10513		46
476	Ultrasensitive transglutaminase based nanosensor for early detection of celiac disease in human. 2017 , 105, 905-911		26
475	Electrochemical Determination of Label Free BRCA Hybridization by Single Use Antioxidant Modified Electrode. 2017 , 29, 2208-2216		0
474	Portable Lock-in Amplifier-Based Electrochemical Method to Measure an Array of 64 Sensors for Point-of-Care Applications. 2017 , 89, 8731-8737		7
473	Electrochemical detection of interaction between capsaicin and nucleic acids in comparison to agarose gel electrophoresis. 2017 , 535, 56-62		6
472	Immune fluorescence test strips based on quantum dots for rapid and quantitative detection of carcino-embryonic antigen. 2017 , 28, 1881-1884		10
471	An ultrasensitive enzyme-free electrochemical immunosensor based on redox cycling amplification using methylene blue. <i>Analyst, The</i> , 2017 , 142, 3492-3499	5	29
470	Enabling miniaturised personalised diagnostics: from lab-on-a-chip to lab-in-a-drop. 2017 , 17, 3200-3220		42
469	Biosensors for Detection of Anticancer Drug-DNA Interactions. 2017 , 349-365		4
468	Label-Free and Recalibrated Multilayer MoS Biosensor for Point-of-Care Diagnostics. 2017 , 9, 43490-43497		36
467	A Simple Paper Based Microfluidic Electrochemical Biosensor for Point-of-Care Cholesterol Diagnostics. 2017 , 214, 1700468		8

466	An Enhanced Platform to Analyse Low-Affinity Amyloid Protein by Integration of Electrical Detection and Preconcentrator. 2017 , 7, 14303		15
465	Portable device for the detection of colorimetric assays. 2017 , 4, 171025		35
464	Singlet oxygen-based electroensing by molecular photosensitizers. 2017 , 8,		47
463	Surface enhanced Raman spectroscopy (SERS) for in vitro diagnostic testing at the point of care. 2017 , 6, 681-701		41
462	Integrating Target-Responsive Hydrogel with Pressuremeter Readout Enables Simple, Sensitive, User-Friendly, Quantitative Point-of-Care Testing. 2017 , 9, 22252-22258		67
461	Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 267-284	11.8	31
460	Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. 2017 , 7, 1324		23
459	An enzyme-mediated competitive colorimetric sensor based on Au@Ag bimetallic nanoparticles for highly sensitive detection of disease biomarkers. <i>Analyst, The</i> , 2017 , 142, 2954-2960	5	31
458	Carbon nanostructures as immobilization platform for DNA: A review on current progress in electrochemical DNA sensors. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 226-237	11.8	68
457	Fully integrated ready-to-use paper-based electrochemical biosensor to detect nerve agents. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 46-51	11.8	106
456	Generation of electrical power under human skin by subdermal solar cell arrays for implantable bioelectronic devices. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 364-371	11.8	30
455	Nanostructured materials and nanoparticles for point of care (POC) medical biosensors. 2017 , 229-254		12
454	A Peptide Nucleic Acid (PNA)-DNA Ferrocenyl Intercalator for Electrochemical Sensing. 2017 , 29, 917-922		8
453	Nanomaterials-based biosensors for detection of microorganisms and microbial toxins. 2017 , 12,		32
452	Real-time electrical detection of epidermal skin MoS ₂ biosensor for point-of-care diagnostics. 2017 , 10, 767-775		33
451	Feasibility in the development of a multi-marker detection platform. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 743-749	11.8	11
450	The influence of carbon-oxygen surface functional groups of carbon electrodes on the electrochemical reduction of hemoglobin. 2017 , 112, 230-237		8
449	Functionalized multi-wall carbon nanotubes as an efficient additive for electrochemical DNA sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 652-659	8.5	33

448	A sensitive electrochemical DNA biosensor based on three-dimensional nitrogen-doped graphene and Fe ₃ O ₄ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 421-429	8.5	68
447	An electrochemical DNA sensor without electrode pre-modification. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 110-114	11.8	26
446	L-cysteine capped lanthanum hydroxide nanostructures for non-invasive detection of oral cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 1042-1052	11.8	55
445	Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 886-898	11.8	133
444	Paper-based enzymatic electrode with enhanced potentiometric response for monitoring glucose in biological fluids. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 110-116	11.8	41
443	Signal amplification for immunosensing. 2017 , 31-75		1
442	3.30 Biosensors Based on Sol-Gel Derived Materials?. 2017 , 657-689		2
441	(Invited) Electrochemical Characterization of Nanogap Interdigitated Electrode Arrays for Lab-on-a-Chip Applications. 2017 , 80, 1295-1308		2
440	Competitive ELISA-like Label-free Detection of Lysozyme by Using a Fluorescent Monomer-doped Molecularly Imprinted Hydrogel. 2017 , 33, 1311-1315		5
439	Design and implementation of front end biological signal conditioning. 2017 ,		
438	Development of a Simple Isatin-Based Electrochemical Immunosensor on a Screen-Printed Gold Electrode for Highly Sensitive Detection of Carcinoembryonic Antigen. 2017 , 2, 7239-7245		2
437	Whispering-Gallery Mode Resonators for Detecting Cancer. <i>Sensors</i> , 2017 , 17,	3.8	14
436	Low-cost optical cavity based sensor with a large dynamic range. 2017 , 25, 11244-11253		4
435	A Multiplexed Microfluidic Platform for Bone Marker Measurement: A Proof-of-Concept. 2017 , 8, 133		10
434	Rethinking the Design of Low-Cost Point-of-Care Diagnostic Devices. 2017 , 8,		8
433	Reduced Graphene Oxides: Influence of the Reduction Method on the Electrocatalytic Effect towards Nucleic Acid Oxidation. 2017 , 7,		29
432	Multiplexed Electrochemical Immunosensors for Clinical Biomarkers. <i>Sensors</i> , 2017 , 17,	3.8	43
431	The Boom in 3D-Printed Sensor Technology. <i>Sensors</i> , 2017 , 17,	3.8	161

430	Electrochemical medical biosensors for POC applications. 2017 , 275-292		12
429	Gravimetric Viral Diagnostics: QCM Based Biosensors for Early Detection of Viruses. <i>Chemosensors</i> , 2017 , 5, 7	4	63
428	Construction and Potential Applications of Biosensors for Proteins in Clinical Laboratory Diagnosis. <i>Sensors</i> , 2017 , 17,	3.8	14
427	Advances in point-of-care diagnostic devices in cancers. <i>Analyst, The</i> , 2018 , 143, 1326-1348	5	37
426	Electrochemical Characterization of Nanogap Interdigitated Electrode Arrays for Lab-on-a-Chip Applications. 2018 , 165, B127-B134		8
425	Mechanisms of Enhanced Hemoglobin Electroactivity on Carbon Electrodes upon Exposure to a Water-Miscible Primary Alcohol. 2018 , 90, 5764-5772		2
424	A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. <i>Analyst, The</i> , 2018 , 143, 3302-3308	5	20
423	Diagnosis of EGFR exon21 L858R point mutation as lung cancer biomarker by electrochemical DNA biosensor based on reduced graphene oxide /functionalized ordered mesoporous carbon/Ni-oxytetracycline metallopolymer nanoparticles modified pencil graphite electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 113, 108-115	11.8	41
422	Lab-on-a-chip electrical multiplexing techniques for cellular and molecular biomarker detection. 2018 , 12, 021501		6
421	Real-time potentiometric sensor; an innovative tool for monitoring hydrolysis of chemo/bio-degradable drugs in pharmaceutical sciences. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 154, 166-173	3.5	3
420	Ultrarobust Biochips with Metal-Organic Framework Coating for Point-of-Care Diagnosis. 2018 , 3, 342-351		19
419	A novel "dual-potential" ratiometric electrochemiluminescence DNA sensor based on enhancing and quenching effect by G-quadruplex / hemin and Au-Luminol bifunctional nanoparticles. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 64-70	11.8	42
418	Alkaline phosphatase detection using electrochemical impedance of anti-alkaline phosphatase antibody (Ab354) functionalized silicon-nanowire-forest in phosphate buffer solution. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 809-815	8.5	12
417	Wafer scale fabrication of graphene microelectrode arrays for the detection of DNA hybridization. 2018 , 189, 85-90		13
416	Carboxylic group riched graphene oxide based disposable electrochemical immunosensor for cancer biomarker detection. 2018 , 545, 13-19		40
415	Micro-optics for microfluidic analytical applications. 2018 , 47, 1391-1458		75
414	Disposable inkjet-printed electrochemical platform for detection of clinically relevant HER-2 breast cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2018 , 104, 158-162	11.8	45
413	Randles Circuit Analysis Toward Investigating Interfacial Effects on Microchannel Electrodes. 2018 , 2, 1-4		6

412	Cobalt nanoparticles anchored to porous silicon as a novel modifier for the construction of enzyme-free hydrogen peroxide screen-printed sensor. 2018 , 65, 1082-1089		3
411	Voltammetric Application of Polypyrrole-Modified Microelectrode Array for the Characterization of DNA Methylation in Glutathione S-Transferase Pi 1. <i>Analytical Letters</i> , 2018 , 51, 2612-2625	2.2	3
410	An impedimetric determination of alkaline phosphatase activity based on the oxidation reaction mediated by Cu bound to poly-thymine DNA.. 2018 , 8, 11241-11246		13
409	Carbon nanodots based biosensors for gene mutation detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 226-233	8.5	53
408	Carbon nanotubes based biosensor for detection of cancer antigens (CA-125) under shear flow condition. 2018 , 15, 180-185		24
407	Nanocomposite-Based Electronic Tongue. 2018 ,		1
406	Dynamics of electrochemical Pt dissolution at atomic and molecular levels. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 123-129	4.1	51
405	A low-cost and miniaturized potentiostat for sensing of biomolecular species such as TNF- α by electrochemical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 533-540	11.8	36
404	Multi-wavelength fluorescence detection of submicromolar concentrations using a filter-free fluorescence sensor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 38-47	8.5	10
403	Real-time tracking and quantification of endogenous hydrogen peroxide production in living cells using graphenated carbon nanotubes supported Prussian blue cubes. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 220-227	8.5	35
402	CMOS Circuits for Biological Sensing and Processing. 2018 ,		0
401	Design of DNA nanostructure-based interfacial probes for the electrochemical detection of nucleic acids directly in whole blood. 2018 , 9, 979-984		78
400	Addition of dihydrogen to a borylborenium center. 2018 , 9, 1433-1438		21
399	The Anatomy of a Nonfaradaic Electrochemical Biosensor. 2018 , 23, 5-15		11
398	CMOS Nano-Pore Technology. 2018 , 1-21		2
397	Multiplex immunoassays using virus-tethered gold microspheres by DC impedance-based flow cytometry. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 121-128	11.8	17
396	Point of Care Sensing Devices: Better Care for Everyone. <i>Sensors</i> , 2018 , 18,	3.8	27
395	C-MEMS Derived Glassy Carbon Electrodes as Sensitive Electrochemical Biosensors. 2018 ,		

394	Enzymatic Electrodes: Characteristics, Fabrication Methods, and Applications. 2018 , 190-199		1
393	Bioanalytical Chemistry, Biosensors. 2018 , 1-28		
392	Paper-based microfluidic device for diagnosis of osteoporosis markers. 2018 , 10, 1639-1649		3
391	Magnetoresistive biosensors with on-chip pulsed excitation and magnetic correlated double sampling. 2018 , 8, 16493		8
390	Wash-free, label-free immunoassay for rapid electrochemical detection of PfHRP2 in whole blood samples. 2018 , 8, 17129		26
389	Nucleic Acid-Based Sensors. 2018 , 392-402		1
388	A Review of Characterization and Quantification Tools for Microbiologically Influenced Corrosion in the Oil and Gas Industry: Current and Future Trends. 2018 , 57, 13895-13922		22
387	Current Advances in Biosensor Design and Fabrication. 2018 , 1-25		9
386	Integrated Bio/Nano/CMOS interfaces for electrochemical molecular sensing. 2018 , 13, 1534-1539		1
385	Electrochemical Methods. 2018 ,		
384	A Multifunctional Molecular Probe for Detecting Hg and Ag ⁺ Based on Ion-Mediated Base Mismatch. <i>Sensors</i> , 2018 , 18,	3.8	9
383	Multifunctional Biosensor Logic Gates Based on Graphene Oxide. 2018 , 473-483		
382	Paper-Based Analytical Methods for Smartphone Sensing with Functional Nanoparticles: Bridges from Smart Surfaces to Global Health. 2018 , 90, 12325-12333		40
381	Electrochemical immunoassay for lactalbumin based on the use of ferrocene-modified gold nanoparticles and lysozyme-modified magnetic beads. <i>Mikrochimica Acta</i> , 2018 , 185, 449	5.8	9
380	Detection of 1,5-anhydroglucitol as a Biomarker for Diabetes Using an Organic Field-Effect Transistor-Based Biosensor. 2018 , 6, 77		15
379	An Introduction to Nanomaterials. 2018 , 1-58		4
378	Neoplasms and metastasis detection in human blood exhalations with a device composed by nanostructured sensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 271, 203-214	8.5	4
377	Real-time analysis of microbial growth by means of the Heat-Transfer Method (HTM) using <i>Saccharomyces cerevisiae</i> as model organism. 2018 , 6, 1-8		11

- 376 Enhanced hemoglobin electroactivity on carbon in electrolytes or binders containing water-miscible primary alcohols. *Sensors and Actuators B: Chemical*, **2018**, 272, 425-432 8.5
- 375 Graphene and 2D-Like Nanomaterials: Different Biofunctionalization Pathways for Electrochemical Biosensor Development. **2018**, 1-35 6
- 374 An IoT Solution for Online Monitoring of Anesthetics in Human Serum Based on an Integrated Fluidic Bioelectronic System. **2018**, 12, 1056-1064 14
- 373 Novel nanostructured indium tin oxide electrode for electrochemical immunosensors: Suitability for the detection of TNF- α . **2018**, 283, 1632-1639 20
- 372 Reduced graphene oxide nanoribbon immobilized gold nanoparticle based electrochemical DNA biosensor for the detection of Mycobacterium tuberculosis. **2018**, 6, 5181-5187 34
- 371 Ultrasensitive biosensor based on long period grating coated with polycarbonate-graphene oxide multilayer. *Sensors and Actuators B: Chemical*, **2018**, 274, 517-526 8.5 47
- 370 Liquid Metal Printed Biosensor. **2018**, 325-367
- 369 Sensing CA 15-3 in point-of-care by electropolymerizing O-phenylenediamine (oPDA) on Au-screen printed electrodes. **2018**, 13, e0196656 25
- 368 Conclusions and Future Developments in Biosensors. **2018**, 295-309
- 367 Interfacial Biosensing: Direct Biosensing of Biomolecules at the Bare Metal Interface. **2018**, 269-277 3
- 366 Clinical detection of Hepatitis C viral infection by yeast-secreted HCV-core:Gold-binding-peptide. *Biosensors and Bioelectronics*, **2018**, 119, 230-236 11.8 7
- 365 Review of Wearable Device Technology and Its Applications to the Mining Industry. **2018**, 11, 547 76
- 364 Lipases and Phospholipases. **2018**, 6
- 363 Lipase, Phospholipase, and Esterase Biosensors (Review). **2018**, 1835, 391-425 14
- 362 Lectin-based biosensors as analytical tools for clinical oncology. **2018**, 436, 63-74 12
- 361 Thin Films and Composites Based on Graphene for Electrochemical Detection of Biologically-relevant Molecules. **2018**, 30, 1888-1896 15
- 360 Investigation of the electrochemical behavior of tizanidine on the surface of glassy carbon electrode modified with multi-walled carbon nanotube/titan yellow doped polypyrrole. *Journal of Electroanalytical Chemistry*, **2018**, 823, 146-154 4.1 8
- 359 Electrochemical Hybridization-Based Biosensor in Environmental Monitoring. **2018**, 353-374 1

358	Molecular Sensors for NMR-Based Detection. 2019 , 119, 195-230		48
357	A decade of microchip electrophoresis for clinical diagnostics - A review of 2008-2017. 2019 , 1045, 42-66		34
356	Fabrication of a Flexible Biosensor Based on an Organic Field-effect Transistor for Lactate Detection. 2019 , 35, 103-106		19
355	Electrospun Nanofibers for Label-Free Sensor Applications. <i>Sensors</i> , 2019 , 19,	3.8	36
354	Highly Flexible Transistor Threads for All-Thread Based Integrated Circuits and Multiplexed Diagnostics. 2019 , 11, 31096-31104		15
353	Perspectives on and Precautions for the Uses of Electric Spectroscopic Methods in Label-free Biosensing Applications. 2019 , 4, 2216-2227		29
352	Spindle-like Fe ₃ O ₄ nanoparticles for improving sensitivity and repeatability of giant magnetoresistance biosensors. 2019 , 126, 064505		7
351	Surface modification methods for electrochemical biosensors. 2019 , 45-75		18
350	Biosensors for early diagnosis of pancreatic cancer: a review. 2019 , 213, 67-89		40
349	Electrochemical immunosensor based on gold-labeled monoclonal anti-LipL32 for leptospirosis diagnosis. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111539	11.8	28
348	Ring Electrode Geometry for Microfluidic Electrochemistry. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126735-126735	8.5	0
347	Highly Sensitive ELISA Using Membrane-Based Microwave-Mediated Electrochemical Immunoassay for Thyroid-Stimulating Hormone Detection. 2019 , 19, 9826-9831		4
346	Microcantilever Array Biosensor for Simultaneous Detection of Carcinoembryonic Antigens and Fetoprotein Based on Real-Time Monitoring of the Profile of Cantilever. 2019 , 4, 3034-3041		11
345	Graphene Functionalization Strategies. 2019 ,		2
344	S-Click Reaction for Isotropic Orientation of Oxidases on Electrodes to Promote Electron Transfer at Low Potentials. <i>Angewandte Chemie</i> , 2019 , 131, 16632-16636	3.6	4
343	S-Click Reaction for Isotropic Orientation of Oxidases on Electrodes to Promote Electron Transfer at Low Potentials. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16480-16484	16.4	4
342	Current Trends of Nanobiosensors for Point-of-Care Diagnostics. 2019 , 2019, 2179718		40
341	A CMOS Electrochemical Biochip With 32 \times 32 Three-Electrode Voltammetry Pixels. 2019 , 54, 2980-2990		4

340	Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications. 2019 , 535-568		0
339	Ultra-Low Level Light Detection Based on the Poisson Statistics Algorithm and a Double Time Windows Technique With Silicon Photomultiplier. 2019 , 7, 722-727		2
338	A Bottom-Up Approach for Developing Aptasensors for Abused Drugs: Biosensors in Forensics. <i>Biosensors</i> , 2019 , 9,	5.9	10
337	Piezoelectric Microchip for Cell Lysis through Cell-Microparticle Collision within a Microdroplet Driven by Surface Acoustic Wave Oscillation. 2019 , 15, e1804593		11
336	DNA Ion Detector and Logic Circulation Amplification Model Based on Mercury and Silver Ions. 2019 , 164, 195-205		
335	Suppressing Non-Specific Binding of Proteins onto Electrode Surfaces in the Development of Electrochemical Immunosensors. <i>Biosensors</i> , 2019 , 9,	5.9	52
334	An electrochemical biosensor for prostate cancer biomarker detection using graphene oxide-gold nanostructures. 2019 , 19, 206-216		37
333	Highly sensitive optical biosensing of Staphylococcus aureus with an antibody/metal-organic framework bioconjugate. 2019 , 11, 917-923		24
332	Low fouling strategies for electrochemical biosensors targeting disease biomarkers. 2019 , 11, 702-711		49
331	Nanomaterials-Based Enzyme Biosensors for Electrochemical Applications: Recent Trends and Future Prospects. 2019 , 381-408		4
330	Synthesis and Production of Different Biomolecules for Application in the Sensing of Environmental Pollutants. 2019 , 63-77		
329	Hydrophilic and Insoluble Electrospun Cellulose Acetate Fiber-Based Biosensing Platform for 25-Hydroxy Vitamin-D3 Detection. 2019 , 1, 1613-1623		18
328	Highly sensitive AlGaIn/GaN HEMT biosensors using an ethanolamine modification strategy for bioassay applications.. 2019 , 9, 15341-15349		13
327	Biosensor technologies based on nanomaterials. 2019 , 181-242		7
326	A Concentric Ring Electrode for a Wall-jet Cell in a Microfluidic Device. 2019 , 31, 1736-1743		2
325	Preconcentration and sensitive determination of the anti-inflammatory drug diclofenac on a paper-based electroanalytical platform. 2019 , 1074, 89-97		29
324	Carbon nanomaterial as platform for electrochemical genosensor: A system for the diagnosis of the hepatitis C in real sample. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 844, 6-13	4.1	10
323	Design and Fabrication by Thermal Imprint Lithography and Mechanical Characterization of a Ring-Based PDMS Soft Probe for Sensing and Actuating Forces in Biological Systems. 2019 , 11,		1

322	An Organophosphorus(III)-Selective Chemodosimeter for the Ratiometric Electrochemical Detection of Phosphines. <i>Chemosensors</i> , 2019 , 7, 19	4	1
321	Terahertz band communication systems: Challenges, novelties and standardization efforts. 2019 , 35, 100700		43
320	Fluorescent C-NanoDots for rapid detection of BRCA1, CFTR and MRP3 gene mutations. <i>Mikrochimica Acta</i> , 2019 , 186, 293	5.8	4
319	384-Channel electrochemical sensor array chips based on hybridization-triggered switching for simultaneous oligonucleotide detection. <i>Biosensors and Bioelectronics</i> , 2019 , 136, 76-83	11.8	8
318	Recent Advances on Electrochemical Biosensing Strategies toward Universal Point-of-Care Systems. <i>Angewandte Chemie</i> , 2019 , 131, 12483-12496	3.6	30
317	A Nanocomposite Based on Reduced Graphene and Gold Nanoparticles for Highly Sensitive Electrochemical Detection of through Its Virulence Factors. 2019 , 12,		13
316	Recent Advances on Electrochemical Biosensing Strategies toward Universal Point-of-Care Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12355-12368	16.4	87
315	Detection platforms for point-of-care testing based on colorimetric, luminescent and magnetic assays: A review. <i>Talanta</i> , 2019 , 202, 96-110	6.2	72
314	Electrochemical biointerface based on electrodeposition AuNPs on 3D graphene aerogel: Direct electron transfer of Cytochrome c and hydrogen peroxide sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 842, 16-23	4.1	19
313	Electrochemical Study of the Complex-Forming Properties of Phosphorylated Glucosyl. 2019 , 89, 466-469		
312	11.2 A CMOS Biosensor Array with 1024 3-Electrode Voltammetry Pixels and 93dB Dynamic Range. 2019 ,		3
311	A Novel Mass-Produced Capacitive Sensor with Fully Symmetric 3D Structure and Microfluidics for Cells Detection. <i>Sensors</i> , 2019 , 19,	3.8	1
310	The imperative role of polymers in enzymatic cholesterol biosensors- an overview. 2019 , 58, 1713-1741		3
309	Electrochemical DNA biosensors for label-free breast cancer gene marker detection. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 2925-2935	4.4	32
308	Carbon Nanotube Wire for Use in Precision Medical Devices. 2019 , 825-849		1
307	Polymeric Nanobiosensors. 2019 , 151-181		1
306	A review of microfabricated electrochemical biosensors for DNA detection. <i>Biosensors and Bioelectronics</i> , 2019 , 134, 57-67	11.8	76
305	Construction of an electrochemical genosensor based on screen-printed gold electrodes (SPGE) for detection of a mutation in the adenomatous polyposis coli gene. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 840, 93-100	4.1	5

304	Computer simulation for electrochemical impedance of a living cell adhered on the inter-digitated electrode sensors. 2019 , 58, SBBG15		7
303	Ultrasensitive and Rapid-Response Sensor for the Electrochemical Detection of Antibiotic Residues within Meat Samples. <i>ACS Omega</i> , 2019 , 4, 6324-6330	3.9	22
302	High selective spectroelectrochemical biosensor for HCV-RNA detection based on a specific peptide nucleic acid. 2019 , 217, 288-293		14
301	Nanofibers for Biomedical and Healthcare Applications. 2019 , 19, e1800256		115
300	Point of care technologies for sepsis diagnosis and treatment. 2019 , 19, 728-737		27
299	Wireless smartphone-assisted personal healthcare monitoring system using a MoS ₂ -based flexible, wearable and ultra-low-cost functional sensor. 2019 , 4, 025003		9
298	Voltammetric immunosensing platform based on dual signal amplification using gold nanoparticle labels. 2019 , 577, 012103		2
297	Lectin biosensors in cancer glycan biomarker detection. 2019 , 93, 1-61		12
296	Label-Free Telomerase Activity Detection via Electrochemical Impedance Spectroscopy. <i>ACS Omega</i> , 2019 , 4, 16724-16732	3.9	6
295	Superparamagnetic nanoarchitectures for disease-specific biomarker detection. 2019 , 48, 5717-5751		119
294	Selective Functionalization Blended with Scaffold Conductivity in Graphene Acid Promotes HO Electrochemical Sensing. <i>ACS Omega</i> , 2019 , 4, 19944-19952	3.9	12
293	Carbon Nanotube-Based Electrochemical Biosensor for Label-Free Protein Detection. <i>Biosensors</i> , 2019 , 9,	5.9	6
292	Hydrogel based protein biochip for parallel detection of biomarkers for diagnosis of a Systemic Inflammatory Response Syndrome (SIRS) in human serum. 2019 , 14, e0225525		3
291	Surface Enhanced Raman Spectroscopy for DNA Biosensors-How Far Are We?. 2019 , 24,		29
290	DNA microarray analysis using a smartphone to detect the BRCA-1 gene. <i>Analyst, The</i> , 2018 , 144, 197-205		23
289	Emerging Nanotechnologies for Liquid Biopsy: The Detection of Circulating Tumor Cells and Extracellular Vesicles. 2019 , 31, e1805344		53
288	Impedance-Based Detection of Bacteria. 2019 , 119, 700-726		119
287	A novel electrochemical nanosensor based on NH-functionalized multi walled carbon nanotubes for the determination of catechol-ortho-methyltransferase inhibitor entacapone. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 165, 73-81	3.5	18

286	Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. <i>Mikrochimica Acta</i> , 2019 , 186, 50	5.8	22
285	Electrochemical, spectroscopic and molecular docking studies on the interaction of calcium channel blockers with dsDNA. 2019 , 127, 12-20		16
284	Universal DNA biosensing based on instantaneously electrostatic attraction between hexaammineruthenium (III) and DNA molecules. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 101-107	11.8	4
283	Multifunctional DNA nanocage with CdTe quantum dots for fluorescence detection of human 8-oxoG DNA glycosylase 1 and doxorubicin delivery to cancer cells. <i>Mikrochimica Acta</i> , 2019 , 186, 85	5.8	14
282	Proximity recognition and polymerase-powered DNA walker for one-step and amplified electrochemical protein analysis. <i>Biosensors and Bioelectronics</i> , 2019 , 128, 104-112	11.8	26
281	Wireless resonant circuits for the minimally invasive sensing of biophysical processes in magnetic resonance imaging. 2019 , 3, 69-78		9
280	Electrochemical Glucose Biosensors: Whole Cell Microbial and Enzymatic Determination Based on 10-(4H-Dithieno[3,2-b:2',3'-d]Pyrrol-4-yl)Decan-1-Amine Interfaced Glassy Carbon Electrodes. <i>Analytical Letters</i> , 2019 , 52, 1138-1152	2.2	10
279	Advances in Porous SiliconBased Nanomaterials for Diagnostic and Therapeutic Applications. 2019 , 2, 1800095		67
278	MicroRNA amplification and detection technologies: opportunities and challenges for point of care diagnostics. 2019 , 99, 452-469		77
277	Recent advances in biosensors for diagnosis of celiac disease: A review. 2019 , 116, 444-451		3
276	Recent Advances in Electrochemical Sensors Based on Molecularly Imprinted Polymers and Nanomaterials. 2019 , 31, 188-201		77
275	Inorganic Complexes and Metal-Based Nanomaterials for Infectious Disease Diagnostics. 2019 , 119, 1456-1518		54
274	Electrochemical biosensors for rapid detection of malaria. 2020 , 3, 150-158		6
273	A Compact Low-Power Current-to-Digital Readout Circuit for Amperometric Electrochemical Sensors. 2020 , 69, 1972-1980		7
272	Current Innovations of Metal Hexacyanoferrates-Based Nanocomposites toward Electrochemical Sensing: Materials Selection and Synthesis Methods. 2020 , 50, 393-404		4
271	Electrochemical techniques for environmental analysis. 2020 , 199-222		7
270	Impact of assay format on miRNA sensing: Electrochemical microfluidic biosensor for miRNA-197 detection. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111824	11.8	27
269	Manipulating the hydrophobicity of DNA as a universal strategy for visual biosensing. 2020 , 15, 316-337		5

268	Controlled/"living" radical polymerization-based signal amplification strategies for biosensing. 2020 , 8, 3327-3340		22
267	A novel naphthofluorescein-based probe for ultrasensitive point-of-care testing of zinc(II) ions and its bioimaging in living cells and zebrafishes. 2020 , 229, 117949		7
266	Enzyme-free sandwich-type electrochemical immunosensor for highly sensitive prostate specific antigen based on conjugation of quantum dots and antibody on surface of modified glassy carbon electrode with core-shell magnetic metal-organic frameworks. <i>Talanta</i> , 2020 , 210, 120641	6.2	41
265	Nano-moles detection of tumor specific biomarker DNA for colorectal cancer detection using vertically aligned multi-wall carbon nanotubes based flexible electrodes. 2020 , 90, 184-192		13
264	Folic acid conjugated Prussian blue nanoparticles: Synthesis, physicochemical characterization and targeted cancer cell sensing. 2020 , 187, 110655		4
263	Recent Advances in Smart Contact Lenses. 2020 , 5, 1900728		33
262	Recent Developments of Electrochemical and Optical Biosensors for Antibody Detection. 2019 , 21,		17
261	Multiwalled carbon nanotubes coated with cobalt(II) sulfide nanoparticles for electrochemical sensing of glucose via direct electron transfer to glucose oxidase. <i>Mikrochimica Acta</i> , 2020 , 187, 80	5.8	22
260	Current Advances in Electrochemical Biosensors and Nanobiosensors. 2020 , 1-16		7
259	Analytical performance of functional nanostructured biointerfaces for sensing phenolic compounds. 2020 , 196, 111344		2
258	Peptide decorated gold nanoparticle/carbon nanotube electrochemical sensor for ultrasensitive detection of matrix metalloproteinase-7. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128789	8.5	14
257	Electrochemical Sensors and Biosensors for the Detection of Cancer Biomarkers and Drugs. 2020 , 15-43		1
256	Sensitive immunoassay of cardiac troponin I using an optimized microelectrode array in a novel integrated microfluidic electrochemical device. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 8325-8338	4.4	2
255	Nanobiosensors for Detection of Phenolic Compounds. 2020 , 275-307		3
254	A Carbon-Based DNA Framework Nano-Bio Interface for Biosensing with High Sensitivity and a High Signal-to-Noise Ratio. 2020 , 5, 3979-3987		8
253	Potentiometric sensing platform for selective determination and monitoring of codeine phosphate in presence of ibuprofen in pharmaceutical and biological matrices. <i>Microchemical Journal</i> , 2020 , 159, 105286	4.8	2
252	An Integrated, Optofluidic System With Aligned Optical Waveguides, Microlenses, and Coupling Prisms for Fluorescence Sensing. 2020 , 29, 600-609		3
251	Molecularly imprinted polymer based electrochemical biosensors: Overcoming the challenges of detecting vital biomarkers and speeding up diagnosis. 2020 , 2, 100018		40

250	. 2020,			1
249	Advances in Portable Visual Detection of Pathogenic Bacteria.. 2020, 3, 7291-7305			7
248	Critical role of biosensing on the efficient monitoring of cancer proteins/biomarkers using label-free aptamer based bioassay. 2020, 132, 110849			13
247	Different Approaches to Develop Nanosensors for Diagnosis of Diseases. 2020, 7, 2001476			14
246	Rational design of DNA nanostructures for single molecule biosensing. 2020, 11, 4384			28
245	Facile synthesis of a nanorod-like MoS nanostructure for sensitive electrochemical biosensing application. <i>Analyst, The</i> , 2021, 145, 7864-7869	5		4
244	Electrochemical characterization of nanosurface-modified screen-printed electrodes by using a source measure unit. 2020, 43, 1			1
243	Recent Developments of Carbon Dots in Biosensing: A Review. 2020, 5, 2724-2741			116
242	Optical Fibre Chemical Sensors. 2020, 239-288			
241	On-Site Testosterone Biosensing for Doping Detection: Electrochemical Immunosensing via Functionalized Magnetic Nanoparticles and Screen-Printed Electrodes. 2020, 5, 14911-14916			2
240	The Application of Prussian Blue Nanoparticles in Tumor Diagnosis and Treatment. <i>Sensors</i> , 2020, 20,	3.8		11
239	Electrochemical Determination of Ampicillin Based on an Electropolymerized Poly(o-Phenylenediamine)/Gold Nanoparticle/Single-Walled Carbon Nanotube Modified Glassy Carbon Electrode. <i>Analytical Letters</i> , 2020, 53, 2854-2867	2.2		8
238	A novel HCV electrochemical biosensor based on a polyaniline@Ni-MOF nanocomposite. 2020, 49, 8918-8926			25
237	Microfluidics-based microwave sensor. 2020, 309, 111910			9
236	Hand-powered centrifugal microfluidic disc with magnetic chitosan bead-based ELISA for antibody quantitation. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128003	8.5		14
235	Electrochemical detection of bovine immunoglobulins G to determine passive transfer of antibodies to calves. 2020, 12, 2655-2660			3
234	3D-printed biosensors for electrochemical and optical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115933	14.6		49
233	ZnO-rGO nanocomposite based bioelectrode for sensitive and ultrafast detection of dopamine in human serum. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112347	11.8		22

232	C-MEMS Derived Glassy Carbon Electrodes-Based Sensitive Electrochemical Biosensors. 2020 , 20, 12472-12478 ₂		
231	Modulating the mixed potential for developing biosensors: Direct potentiometric determination of glucose in whole, undiluted blood. <i>Biosensors and Bioelectronics</i> , 2020 , 163, 112302	11.8	16
230	Nanostructured Chemoresistive Sensors for Oncological Screening and Tumor Markers Tracking: Single Sensor Approach Applications on Human Blood and Cell Samples. <i>Sensors</i> , 2020 , 20,	3.8	4
229	Carbon nanotube - A review on Synthesis, Properties and plethora of applications in the field of biomedical science. 2020 , 1, 100003		146
228	Development of a sensitive electrochemical immunosensor using polyaniline functionalized graphene quantum dots for detecting a depression marker. 2020 , 111, 110797		13
227	Detection of mutant genes with different types of biosensor methods. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 126, 115860	14.6	15
226	Functionalization of a Few-Layer Antimonene with Oligonucleotides for DNA Sensing. 2020 , 3, 3625-3633		13
225	Impact of width and spacing of interdigitated electrode on impedance-based living cell monitoring studied by computer simulation. 2020 , 59, SDDE02		0
224	Light-controlled imaging of biocatalytic reactions via scanning photoelectrochemical microscopy for multiplexed sensing. 2020 , 56, 5147-5150		9
223	Nanobiosensors for food analysis. 2020 , 415-457		1
222	Nanosensors for better diagnosis of health. 2020 , 187-228		0
221	Artificial intelligence biosensors: Challenges and prospects. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112412	11.8	62
220	Smart polymers. 2020 , 257-279		1
219	Detection methods of wastewater contaminants. 2020 , 47-68		2
218	Nanobiosensors for virus detection in the environment. 2020 , 61-87		2
217	Fabrication of poly(3,4-ethylenedioxythiophene)-iridium oxide nanocomposite based Tyrosinase biosensor for the dual detection of catechol and azinphos methyl. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128121	8.5	17
216	Highly sensitive host-guest mode homogenous electrochemical thrombin signal amplification aptasensor based on tetraferrocene label. 2020 , 134, 107522		7
215	Electrochemical Studies on the Binding of Antibody/Aptamer Hybrid Receptor Layers to HER2 Protein. 2020 , 167, 067512		2

214	Pop-up paper electrochemical device for label-free hepatitis B virus DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128077	8.5	42
213	Development of rapid colorimetric assay for the detection of Influenza A and B viruses. <i>Talanta</i> , 2021 , 221, 121468	6.2	6
212	Recent advances in visual detection for cancer biomarkers and infectious pathogens. 2021 , 9, 35-52		4
211	Innovative screen-printed electrodes on cork composite substrates applied to sulfadiazine electrochemical sensing. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 880, 114922	4.1	5
210	Fabrication of small-structure red-emissive fluorescent probes for plasma membrane enables quantification of nuclear to cytoplasmic ratio in live cells and tissues. 2021 , 249, 119338		1
209	Enabling Direct Protein Detection in a Drop of Whole Blood with an "On-Strip" Plasma Separation Unit in a Paper-Based Lateral Flow Strip. 2021 , 93, 1326-1332		17
208	Highly sensitive electrochemical assay for selective detection of Aminotriazole based on TiO ₂ /poly(CTAB) modified sensor. 2021 , 21, 101222		17
207	Conductive Polymer Nanobiosensors. 2021 , 85-118		1
206	Terahertz Antenna Technology for Imaging and Sensing Applications. 2021 , 75-102		0
205	Fluorescent detection of target proteins a molecularly imprinted hydrogel. 2021 , 13, 3086-3091		0
204	Review on Recent Advances in Urinary Biomarkers Based Electrochemical Sensors for Prostate Cancer Detection. 2021 , 123-136		
203	Current Developments in Diagnostic Biosensor Technology: Relevance to Therapeutic Intervention of Infectious and Inflammatory Diseases of Human. 2021 , 1-36		2
202	Interactions between Biomedical Micro-/Nano-Motors and the Immune Molecules, Immune Cells, and the Immune System: Challenges and Opportunities. 2021 , 10, e2001788		12
201	Amalgamation of biosensors and nanotechnology in disease diagnosis: Mini-review. 2021 , 2, 100089		11
200	A portable droplet microfluidic device for cortisol measurements using a competitive heterogeneous assay. <i>Analyst, The</i> , 2021 , 146, 4535-4544	5	0
199	Nanowire-based sensor electronics for chemical and biological applications. <i>Analyst, The</i> , 2021 , 146, 6684-6725		
198	Aluminum Microcomb Electrodes on Silicon Wafer for Detecting Val66Met Polymorphism in Brain-Derived Neurotrophic Factor. 2021 , 43, 53-62		
197	Label-free electrochemical immunosensor based on gold nanoparticle/polyethyleneimine/reduced graphene oxide nanocomposites for the ultrasensitive detection of cancer biomarker matrix metalloproteinase-1. <i>Analyst, The</i> , 2021 , 146, 4066-4079	5	9

196	On-Farm Point-of-Care Diagnostic Technologies for Monitoring Health, Welfare, and Performance in Livestock Production Systems. 2021 , 209-232		
195	A polyA DNA probe-based ultra-sensitive and structure-distinguishable electrochemical biosensor for the analysis of RNAi transgenic maize. <i>Analyst, The</i> , 2021 , 146, 3526-3533	5	1
194	Recent trends in carbon nanotubes based prostate cancer therapy: A biomedical hybrid for diagnosis and treatment. 2021 ,		2
193	Electrochemical Biosensors for the Detection of SARS-CoV-2 and Other Viruses. 2021 , 12,		16
192	Additive-free Aqueous Dispersions of Two-Dimensional Materials with Glial Cell Compatibility and Enzymatic Degradability. 2021 , 27, 7434-7443		2
191	Ag nanoparticles outperform Au nanoparticles for the use as label in electrochemical point-of-care sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	4
190	Ultra-Sensitive Radio Frequency Biosensor at an Exceptional Point of Degeneracy Induced by Time Modulation. 2021 , 21, 7250-7259		8
189	Influence of solid electrolyte upon the repeatability and reproducibility of all-solid-state ion-selective electrodes with inorganic insertion material paste. 2021 , 373, 137896		4
188	Advanced Polypropylene and Composites with Polypropylene with Applications in Modern Medicine.		
187	A Carbon-Based Antifouling Nano-Biosensing Interface for Label-Free POCT of HbA1c. <i>Biosensors</i> , 2021 , 11,	5.9	6
186	Electrochemical DNA Biosensor That Detects Early Celiac Disease Autoantibodies. <i>Sensors</i> , 2021 , 21,	3.8	3
185	Ratiometric Electrochemistry: Improving the Robustness, Reproducibility and Reliability of Biosensors. 2021 , 26,		6
184	Impact of surface roughness on the self-assembling of molecular films onto gold electrodes for label-free biosensing applications. 2021 , 378, 138137		5
183	Ultrasensitive Electrochemical Immunoassay for Prostate Specific Antigen (PSA) Based Upon Silver-Functionalized Polyethyleneimine (PEI)Silica Nanoparticles (NPs). <i>Analytical Letters</i> , 1-16	2.2	3
182	Nafion and Multiwall Carbon Nanotube Modified Ultrananocrystalline Diamond Microelectrodes for Detection of Dopamine and Serotonin. 2021 , 12,		1
181	The hot-wire concept: Towards a one-element thermal biosensor platform. <i>Biosensors and Bioelectronics</i> , 2021 , 179, 113043	11.8	2
180	Wearable and Mobile Sensors for Personalized Nutrition. 2021 , 6, 1745-1760		28
179	Single-step label-free nanowell immunoassay accurately quantifies serum stress hormones within minutes. 2021 , 7,		3

178	A Comprehensive Study on Aptasensors For Cancer Diagnosis. 2021 , 22, 1069-1084		3
177	REDECA: A Novel Framework to Review Artificial Intelligence and Its Applications in Occupational Safety and Health. 2021 , 18,		2
176	Current Progress on Biosensors and Point-of-Care Devices for Sepsis Diagnosis. 2021 , 21, 12840-12855		1
175	Electrodetection of small molecules by conformation-mediated signal enhancement.		
174	Nanoconfinement Effect for Signal Amplification in Electrochemical Analysis and Sensing. 2021 , 17, e2101665		7
173	Microfluidics-Based Plasmonic Biosensing System Based on Patterned Plasmonic Nanostructure Arrays. 2021 , 12,		13
172	Morphological basis for possibility of applying electrochemical method with use of nanotechnological biosensors in diagnosis of colorectal cancer. 2021 , 38, 88-96		
171	An electrochemical biosensor for direct detection of hepatitis C virus. 2021 , 624, 114196		4
170	Advancing sensing technology with CRISPR: From the detection of nucleic acids to a broad range of analytes - A review. 2021 , 1185, 338848		15
169	Doping and Decorating 2D Materials for Biosensing: Benefits and Drawbacks. <i>Advanced Functional Materials</i> , 2021 , 31, 2102555	15.6	5
168	Technological advances in electrochemical biosensors for the detection of disease biomarkers. 2021 , 11, 1-26		3
167	Electrochemical Approaches for the Recovery of Metals from Electronic Waste: A Critical Review. 2021 , 6, 53		10
166	Electrodes Based on PEDOT Nanotubes Decorated with Gold Nanoparticles for Biosensing and Energy Storage. 2021 , 4, 9945-9956		2
165	Point of care testing of sports biomarkers: Potential applications, recent advances and future outlook. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 142, 116327	14.6	6
164	Recent Advances in Zinc Oxide Nanoparticles (ZnO NPs) for Cancer Diagnosis, Target Drug Delivery, and Treatment. 2021 , 13,		25
163	Microfabricated potentiometric sensor for personalized methacholine challenge tests during the COVID-19 pandemic. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113439	11.8	5
162	Electrodes for Cell Sensors Interfacing. 2022 , 569-600		
161	New challenges in point of care electrochemical detection of clinical biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130349	8.5	9

160	MoS-based nanocomposites for cancer diagnosis and therapy. 2021 , 6, 4209-4242		42
159	Biosensor-based early diagnosis of gastric cancer. 2022 , 257-269		
158	Microfluidic protein analysis and applications. 2022 , 257-273		
157	CMOS-compatible silicon nanowire field-effect transistors: Where nanotechnology pushes the limits in biosensing. 2022 , 327-362		1
156	Morphology-dependent MoO/Ni-F nanostructures with enhanced electrochemical hydrogen peroxide detection. 2022 , 287, 131960		4
155	Investigating Protein Adsorption via Spectroscopic Ellipsometry. 2009 , 19-41		12
154	A novel three-dimensional biosensor based on aluminum oxide: application for early-stage detection of human interleukin-10. 2014 , 1172, 49-64		6
153	Electrochemical Detection of Harmful Algae by Means of a Sandwich Hybridization Assay on an Electrode Surface. 2012 , 243-261		1
152	Application of Nanoparticles in Manufacturing. 2016 , 1219-1278		2
151	Antibody Microarrays for Environmental Monitoring. 2010 , 2699-2710		6
150	Dielectric Detection Using Biochemical Assays. 2013 , 97-123		2
149	Clinical Implications of Cortisol and Bioanalytical Methods for Their Determination in Various Biological Matrices. 2021 , 195-221		0
148	Graphene Functionalization and Nanopolymers. 2019 , 157-178		3
147	An electrochemical CD59 targeted noninvasive immunosensor based on graphene oxide nanoparticles embodied pencil graphite for detection of lung cancer. <i>Microchemical Journal</i> , 2020 , 156, 104957	4.8	13
146	CHAPTER 1: Biosensor Technology and the Clinical Biochemistry Laboratory [Issue of Signal Interference from the Biological Matrix. 2013 , 1-34		4
145	Field-portable pixel super-resolution colour microscope. 2013 , 8, e76475		64
144	[Sensor systems for medical application based on hemoproteins and nanocomposite materials]. 2010 , 56, 55-71		5
143	Electrochemical Nano-biosensors as Novel Approach for the Detection of Lung Cancer-related MicroRNAs. 2019 , 20, 13-35		13

142	Electrochemical Biosensors - Sensor Principles and Architectures. <i>Sensors</i> , 2008 , 8, 1400-1458	3.8	1160
141	Recent Progress of Biomarker Detection Sensors. 2020 , 2020, 7949037		9
140	Detection of Breast Cancer 1 (BRCA1) Gene Using an Electrochemical DNA Biosensor Based on Immobilized ZnO Nanowires. 2014 , 03, 9-17		28
139	Electroanalytical Applications Based on Carbon Nanotube/Prussian Blue Screen-printable Composite. 2010 , 31, 1583-1588		3
138	Detection of Sequence-Specific Gene by Multi-Channel Electrochemical DNA Chips. 2012 , 33, 69-75		2
137	Development of a capacitive chemical sensor based on Co(II)-phthalocyanine acrylate-polymer/HfO ₂ /SiO ₂ /Si for detection of perchlorate. 2015 , 4, 17-23		10
136	Aptamer-based Nanosensors: Juglone as an Attached-Redox Molecule for Detection of Small Molecules. 2011 , 1, 31-6		17
135	Histological validation of using electrochemical nanotechnological biosensors colorectal adenocarcinoma diagnosis. 2021 , 10, 21		
134	Multiwall carbon nanotubes: A review on synthesis and applications. 2021 , 11,		
133	Comparative analysis of breast cancer detection using machine learning and biosensors. 2021 ,		2
132	Recent advances in the detection of interferon-gamma as a TB biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 414, 907	4-4	2
131	Voltammetric Behavior of Acidic Catecholamine Metabolites in Presence of Cationic Surfactants. 2021 , 168, 106507		1
130	Cortisol Detection in Undiluted Human Serum Using a Sensitive Electrochemical Structure-Switching Aptamer over an Antifouling Nanocomposite Layer. <i>ACS Omega</i> , 2021 , 6, 27888-27897		5
129	Electrochemical Sensors. 2013 , 161-180		
128	Development of HRP-modified Carbon Composite Biosensor and Electrochemical Analysis of H ₂ O ₂ . 2012 , 56, 571-576		
127	CHAPTER 4. Recent Progress in the Electrochemical Detection of Disease-Related Diagnostic Biomarkers. 2013 , 89-128		
126	CHAPTER 1:Introduction to Biosensor Technology. 2013 , 1-49		
125	Encyclopedia of Applied Electrochemistry. 2014 , 872-882		1

- 124 Electrochemical Reduction Potential Shifts of Graphene Oxide Employed in Thrombin Detection. **2014**, 35, 1867-1870
- 123 Metabolomics and Oral Disease Diagnosis. **2015**, 73-85
- 122 CHAPTER 19: Phage-Based Biosensors for Food Analysis. **2016**, 432-462
- 121 Electrochemical Sensors. **2016**, 171-193
- 120 7 Nanobiosensors for Genosensing. **2016**, 183-208
- 119 8 Nanomaterial-Based Immunosensors for Clinical Diagnostics. **2016**, 209-240
- 118 Introduction. **2017**, 1-15
- 117 Chapter 1 Two-Electrode Platforms for Protein Biosensing Based on Charge Transport through the DNA Double Helix. **2017**, 1-26
- 116 Introduction. **2018**, 1-12
- 115 Computational study for optimization of a plasmon FET as a molecular biosensor. **2018**,
- 114 Immunoanaliticheskie i biosensornye tekhnologii dlia obespecheniia biobezopasnosti. **2018**, 167-185
- 113 Nucleic Acid Aptamers as Emerging Tools for Diagnostics and Theranostics. **2019**, 2054, 201-221 ○
- 112 Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. **2019**, 1-31
- 111 Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. **2020**, 1-31
- 110 An S-tapered Fiber Sensor with Low Detection Limit for Human IgG. **2020**,
- 109 Highly sensing and transducing materials for potentiometric ion sensors with versatile applicability. **2021**, 125, 100885 5
- 108 Flexible sensor with electrophoretic polymerized graphene oxide/PEDOT:PSS composite for voltammetric determination of dopamine concentration. **2021**, 11, 21101 4
- 107 Novel sinuous band microelectrode array for electrochemical amperometric sensing. **2021**, 133, 107159 ○

106 Electrodes for Cell Sensors Interfacing. **2020**, 1-33

105 DNA Transformations for Diagnosis and Therapy. *Advanced Functional Materials*, **2020**, 31, 2008279 15.6 3

104 Nanotechnological Nano Noses. 988, 012072

103 Recent developments towards portable point-of-care diagnostic devices for pathogen detection. 5

102 Minimally Invasive Technologies for Biosensing. **2020**, 193-223

101 Cluster decoration of semiconductor nanostructures toward gas sensors and biosensors. **2020**, 15, 215-246

100 Manifestations of Nanomaterials in Development of Advanced Sensors for Defense Applications. **2020**, 3-34

99 Polyaniline Based Electrochemical Sensor for the Detection of Dengue Virus Infection. **2020**, 12, 77-84 3

98 Multifunctional Gold Nano-Cytosensor With Quick Capture, Electrochemical Detection, and Non-Invasive Release of Circulating Tumor Cells for Early Cancer Treatment. **2021**, 9, 783661 0

97 Machine Learning for Estimating Electron Transfer Rates From Square Wave Voltammetry. **2021**, 0

96 Development of a Protein Biochip Platform for Parkinson's Disease.. *Advances in Experimental Medicine and Biology*, **2021**, 1338, 175-179 3.6 0

95 Protein nanoparticles directed cancer imaging and therapy.. *Nano Convergence*, **2022**, 9, 2 9.2 4

94 Paper-based electrochemical peptide sensor for label-free and rapid detection of airborne Bacillus anthracis simulat spores. *Sensors and Actuators B: Chemical*, **2022**, 355, 131321 8.5 2

93 Design of a Wireless Compact Implantable Electrochemical Biosensor System for Health Monitoring Application. **2020**,

92 A Neurofilament-Light Chains Electrochemical Immunosensor Expected to Reveal the Early Stage of Neurodegenerative Diseases. *SSRN Electronic Journal*, 1

91 Miniaturized bioelectrochemical devices. **2022**, 89-108

90 Fabrication of functionalized nanomaterial-based electrochemical sensors platforms. **2022**, 445-486

89 Fluorescence based miniaturized microfluidic and nanofluidic systems for biomedical applications.. *Progress in Molecular Biology and Translational Science*, **2022**, 186, 217-243 4

88	Urchin-like PtNPs@BiS: synthesis and application in electrochemical biosensor.. <i>Analyst, The</i> , 2022 ,	5	1
87	A novel genosensor based on Fe ₃ O ₄ @SiO ₂ /DABCO-modified screen-printed graphite electrode for detection of prostate cancer gene sequence hybridization. <i>Journal of the Iranian Chemical Society</i> , 1	2	1
86	Functionalized nanomaterial- based electrochemical sensors for point-of-care devices. 2022 , 309-335		
85	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. <i>Cellulose</i> , 2022 , 29, 1293-1305	5.5	5
84	Aqueous-phase biofunctionalized NH ₂ -MIL-53(Al) MOF for biosensing applications. <i>Journal of Porous Materials</i> , 1	2.4	0
83	An all-in-one approach for self-powered sensing: A methanol fuel cell modified with a molecularly imprinted polymer for cancer biomarker detection. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 906, 116009	4.1	0
82	Optimization of sensing-pad functionalizing strategy toward separative extended-gate FET biosensors for PSA detection.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 211, 114597	3.5	2
81	The Recent Development of Nanomaterials Enhanced Paper-Based Electrochemical Analytical Devices. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 909, 116140	4.1	0
80	Body-worn Enzymatic Biofuel Cell with Automated Pencil drawn Bioelectrodes for Energy Harvesting from Human Sweat. <i>Journal of Micromechanics and Microengineering</i> ,	2	
79	Recent progress and growth in biosensors technology: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 ,	6.3	13
78	Electron-Transfer Study and Single Nucleotide Discrimination of a DNA Sequence on a Polymer Gold Electrode (PGE) by Differential Pulse Voltammetry (DPV). <i>Analytical Letters</i> , 1-13	2.2	0
77	Optothermophoretic flipping method for biomolecule interaction enhancement.. <i>Biosensors and Bioelectronics</i> , 2022 , 204, 114084	11.8	4
76	State-of-the-art cancer biomarker detection by portable (Bio) sensing technology: A critical review. <i>Microchemical Journal</i> , 2022 , 177, 107248	4.8	2
75	Biomedical IoT: Enabling Technologies, Architectural Elements, Challenges, and Future Directions.. <i>IEEE Access</i> , 2022 , 10, 31306-31339	3.5	2
74	Biomedical Applications of Nanofibers. 2022 , 309-327		
73	Miniaturized structured illumination microscopy with diffractive optics. <i>Photonics Research</i> ,	6	0
72	When Less Gold is More: Selective Attomolar Biosensing at the Nanoscale. <i>Advanced Functional Materials</i> , 2105433	15.6	1
71	Amperometric immunosensor developed for sensitive detection of SARS-CoV-2 spike S1 protein in combined with portable device.. <i>Talanta</i> , 2022 , 244, 123422	6.2	2

70	An outlook on electrochemical approaches for molecular diagnostics assays and discussions on the limitations of miniaturized technologies for point-of-care devices. <i>Sensors and Actuators Reports</i> , 2022 , 4, 100087	4.7	5
69	Ultralong-Time Recovery and Low-Voltage Electroporation for Biological Cell Monitoring Enabled by a Microsized Multipulse Framework.. <i>ACS Omega</i> , 2021 , 6, 35325-35333	3.9	0
68	Miniaturized Capillary Electrophoresis for the Separation and Identification of Biomolecules. 2022 , 1-19		
67	Advances in Materials, Methods, and Principles of Modern Biosensing Tools. 2022 , 33-57		
66	Recent Advances in Aptasensor for Cytokine Detection: A Review.. <i>Sensors</i> , 2021 , 21,	3.8	1
65	Emerging Tumor-on-Chips with Electrochemical Biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 116640	14.6	2
64	A neurofilament-light chains electrochemical immunosensor expected to reveal the early stage of neurodegenerative diseases. <i>Chemical Engineering Journal</i> , 2022 , 136850	14.7	2
63	Electrochemical immunosensor for point-of-care quantitative detection of tumor markers based on personal glucometer. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 915, 116333	4.1	0
62	Sustainable Approach for Developing Graphene-Based Materials from Natural Resources and Biowastes for Electronic Applications. <i>ACS Applied Electronic Materials</i> ,	4	3
61	Energy-Efficient, On-Demand Activation of Biosensor Arrays for Long-Term Continuous Health Monitoring. <i>Biosensors</i> , 2022 , 12, 358	5.9	0
60	Point of care diagnostics for cancer: Recent trends and challenges. 2022 , 29-64		
59	Design of a Lab-On-Chip for Cancer Cell Detection through Impedance and Photoelectrochemical Response Analysis. <i>Biosensors</i> , 2022 , 12, 405	5.9	2
58	A concise review on potential cancer biomarkers and advanced manufacturing of smart platform-based biosensors for early-stage cancer diagnostics. <i>Biosensors and Bioelectronics: X</i> , 2022 , 11, 100178	2.9	
57	An electrochemical assay for sensitive detection of <i>Acinetobacter baumannii</i> gene. <i>Talanta</i> , 2022 , 249, 123696	6.2	0
56	Sensors and Biosensors in Organs-on-a-Chip Platforms. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 55-80	3.6	
55	Flexible Sensing Systems for Cancer Diagnostics. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 275-306	3.6	
54	Fundamentals of Biosensors and Detection Methods. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 3-29	3.6	2
53	Emerging Biosensors for Oral Cancer Detection and Diagnosis: A Review Unravelling Their Role in Past and Present Advancements in the Field of Early Diagnosis. <i>Biosensors</i> , 2022 , 12, 498	5.9	

52	PlyAB Nanopores Detect Single Amino Acid Differences in Folded Haemoglobin from Blood**. <i>Angewandte Chemie</i> ,	3.6	
51	Fabrication of a label-free electrochemical aptasensor to detect cytochrome c in the early stage of cell apoptosis. <i>Mikrochimica Acta</i> , 2022 , 189,	5.8	3
50	PlyAB Nanopores Detect Single Amino Acid Differences in Folded Haemoglobin from Blood**. <i>Angewandte Chemie - International Edition</i> ,	16.4	0
49	Chip-Based and Wearable Tools for Isothermal Amplification and Electrochemical Analysis of Nucleic Acids. <i>Chemosensors</i> , 2022 , 10, 278	4	1
48	A Review on Potential Electrochemical Point-of-Care Tests Targeting Pandemic Infectious Disease Detection: COVID-19 as a Reference. <i>Chemosensors</i> , 2022 , 10, 269	4	4
47	Piezoelectric point-of-care biosensor for the detection of SARS-COV-2 (COVID-19) antibodies. <i>Sensing and Bio-Sensing Research</i> , 2022 , 37, 100510	3.3	2
46	Designing electrochemical microfluidic multiplexed biosensors for on-site applications. <i>Analytical and Bioanalytical Chemistry</i> ,	4.4	0
45	Electrochemical aptasensors for clinical diagnosis. A review of the last five years. <i>Sensors and Actuators B: Chemical</i> , 2022 , 369, 132318	8.5	0
44	Sensitive Affinity-Based Biosensor Using the Autocatalytic Activation of Trypsinogen Mutant by Trypsin with Low Self-activation.		
43	Impedimetric Detection Based on Label-Free Immunoassay Developed for Targeting Spike S1 Protein of SARS-CoV-2. 2022 , 12, 1992		
42	A wearable electrochemical biosensor for the monitoring of metabolites and nutrients.		20
41	Electronic behavior of randomly dislocated RNA and DNA nanowires: a multi-model approach. 2022 , 137,		1
40	A robust electrochemical sensing platform for the detection of erlotinib based on nitrogen-doped graphene quantum dots/copper nanoparticles-polyaniline-graphene oxide nanohybrid.		
39	Review [Nanostructured chemoresistive sensors as detectors of volatile biomarkers for medical screening purposes of mundane and oncological human pathologies. 2022 , 371, 132493		1
38	Eggshell nano-CaCO ₃ decorated PANi/rGO composite for sensitive determination of ascorbic acid, dopamine, and uric acid in human blood serum and urine. 2022 , 33, 104357		1
37	Nanoarchitected assembly and surface of two-dimensional (2D) transition metal dichalcogenides (TMDCs) for cancer therapy. 2022 , 472, 214765		1
36	Differential pulse voltammetry and chronoamperometry as analytical tools for epinephrine detection using a tyrosinase-based electrochemical biosensor. 2022 , 12, 25342-25353		2
35	Nucleic acid based biosensor as a cutting edge tool for point of care diagnosis. 2022 , 265-301		0

34	Molecularly Imprinted Electrochemical Sensor Based on Nitrogen-doped Molybdenum Carbide Nanosphere for Trace Analysis of Resveratrol.	1
33	Sensing performances of spinel ferrites MFe_2O_4 ($M = Mg, Ni, Co, Mn, Cu$ and Zn) based electrochemical sensors: A review. 2022 , 340362	2
32	Quartz Crystal Microbalance-Based Aptasensors for Medical Diagnosis. 2022 , 13, 1441	0
31	Robotic APTamer-Enabled Electrochemical Reader (RAPTER) System for Automated Aptamer-Mediated Electrochemical Analysis. 2023 , 271-280	0
30	ZnO-Based Quantum Dots for Biosensing, Cancer Imaging and Therapy: An Overview.	1
29	Recent Progress of Smart Nano-Based Biosensors and their Applications in Biomedicine.	0
28	Candidate drug molecule-DNA interaction and molecular modelling of candidate drug molecule. 2022 , 5, 1547-1555	0
27	Electrodetection of Small Molecules by Conformation-Mediated Signal Enhancement.	0
26	Nanomaterials for Cortisol Sensing. 2022 , 12, 3790	0
25	Ultrafast one-minute electronic detection of SARS-CoV-2 infection by 3CLpro enzymatic activity in untreated saliva samples. 2022 , 13,	1
24	A Simple yet Highly Sensitive and Selective Aptasensor Architecture for Rapid and Portable miRNA Detection. 2022 , 140186	0
23	Biochemical interfaces for bioelectrochemical sensors. 2023 , 81-98	0
22	Microfluidic-based plasmonic biosensors. 2023 , 287-312	0
21	Biosensing chips for cancer diagnosis and treatment: a new wave towards clinical innovation. 2022 , 22,	1
20	Electrochemical immunoassay of antibodies using freshly prepared and aged conjugates of silver nanoparticles. 2022 , 124028	0
19	A stand-alone portable potentiostat with parallel channels for smart electrochemical analyses. 2022 , 1-1	0
18	A Needle-Shaped Electrochemical Sensor in Platinum for Robust Monitoring of Anaesthetics. 2022 ,	0
17	Integration of Manganese Dioxide-Based Nanomaterials for Biomedical Applications. 2200093	0

16	All-in-one Microfluidic Device with an Integrated Porous Filtration Membrane for on-site Detection of Multiple Salivary Biomarkers. 2022 , 133214	1
15	Recent Advances in Impedimetric Biosensors Focusing on Myocardial Infarction Diagnosis. 1-14	0
14	Genosensing Environmental Pollution. 2011 , 34-60	1
13	A label-free dual immunosensor for the simultaneous electrochemical determination of CA125 and HE4 biomarkers for the early diagnosis of ovarian cancer.	0
12	Optimization of SAW Sensors for Nanoplastics and Grapevine Virus Detection. 2023 , 13, 197	0
11	Biosensors for glucose detection. 2023 , 235-259	0
10	Advancements in CRISPR-Based Biosensing for Next-Gen Point of Care Diagnostic Application. 2023 , 13, 202	0
9	Amplification-free electrochemical biosensor detection of circulating microRNA to identify drug-induced liver injury. 2023 , 231, 115298	0
8	An Efficient Multilayer Approach to Model DNA-Based Nanobiosensors. 2023 , 127, 1513-1525	0
7	Synthesis, Characterization of Some Conductive Aromatic Polyamides/Fe ₃ O ₄ NPs/ITO, and Their Utilization for Methotrexate Sensing. 2023 , 6, 83-96	0
6	Diagnostic accuracy of circular RNA for diabetes Mellitus: a systematic review and diagnostic Meta-analysis. 2023 , 16,	0
5	Lab-On-Chip Electrochemical Biosensor for Rheumatoid Arthritis. 2023 , 157-181	0
4	Smart nanomaterials in biosensing applications. 2023 , 207-231	0
3	BIOSENSORS: TYPES, APPLICATIONS, AND FUTURE ADVANTAGES. 2023 , 457-481	0
2	Diagnosis of acute myocardial infarction: highlighting cardiac troponins as vital biomarkers. 2023 , 13, 85-88	0
1	Polyethylene Glycol-Mediated Directional Conjugation of Biological Molecules for Enhanced Immunoassays at the Point-of-Care.	0