

CITATION REPORT

List of articles citing

Electrochemical biosensors: recommended definitions and classification

DOI: 10.1016/s0956-5663(01)00115-4
Biosensors and Bioelectronics, 2001, 16, 121-31.

Source: <https://exaly.com/paper-pdf/33023186/citation-report.pdf>

Version: 2024-04-27

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
1077	Biosensors for livestock production. 2001 , 28, 37-44		2
1076	Electroanalytical determination of acid phosphatase activity by monitoring p-nitrophenol. 2001 , 441, 207-214		60
1075	Conductometric formaldehyde sensitive biosensor with specifically adapted analytical characteristics. 2001 , 445, 47-55		60
1074	On-Line Measurement of Glucose in a Rotating Wall Perfused Vessel Bioreactor Using an Amperometric Glucose Sensor. 2002 , 149, H103		6
1073	Biosensors. 2002 ,		
1072	Indirect determination of alkaline phosphatase based on the amperometric detection of indigo carmine at a screen-printed electrode in a flow system. 2002 , 18, 1209-13		10
1071	A nanoscale optical biosensor: sensitivity and selectivity of an approach based on the localized surface plasmon resonance spectroscopy of triangular silver nanoparticles. 2002 , 124, 10596-604		1716
1070	Electrochemical sensors. 2002 , 74, 2781-800		359
1069	Recent advances in biologically sensitive field-effect transistors (BioFETs). 2002 , 127, 1137-51		432
1068	Microbial BOD sensors for wastewater analysis. 2002 , 36, 3786-802		156
1067	Metabolically engineered methylotrophic yeast cells and enzymes as sensor biorecognition elements. 2002 , 2, 307-14		28
1066	Stabilized lipid film based biosensor for atenolol. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 565-72	11.8	55
1065	Review of the use of biosensors as analytical tools in the food and drink industries. 2002 , 77, 237-256		434
1064	Enhancement of operational stability of an enzyme biosensor for glucose and sucrose using protein based stabilizing agents. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 503-7	11.8	93
1063	Membrane supported bilayer lipid membranes array: preparation, stability and ion-channel insertion. 2002 , 460, 23-34		45
1062	Surface plasmon resonance transients at an electrochemical interface: time resolved measurements using a bicell photodiode. 2003 , 475, 47-58		26
1061	Adsorption: an easy and efficient immobilisation of acetylcholinesterase on screen-printed electrodes. 2003 , 481, 209-211		58

1060	Development and optimisation of biosensors based on pH-sensitive field effect transistors and cholinesterases for sensitive detection of solanaceous glycoalkaloids. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 1047-53	11.8	44
1059	Time resolved detection of electrochemical effects by surface plasmon resonance measurements: a simple technique using a large area single cell photodiode. 2003 , 96, 105-113		12
1058	A Nanoscale Optical Biosensor: Real-Time Immunoassay in Physiological Buffer Enabled by Improved Nanoparticle Adhesion. 2003 , 107, 1772-1780		409
1057	Allosteric enzymes as biosensors for molecular diagnosis. 2003 , 554, 169-72		39
1056	Biosensors in clinical chemistry. 2003 , 334, 41-69		338
1055	Nanoscale optical biosensors based on localized surface plasmon resonance spectroscopy. 2003 ,		28
1054	Membranes for the development of biosensors. 2003 , 379-392		1
1053	Chapter 7 Chemically modified electrodes with integrated biomolecules and molecular wires. 2003 , 327-376		1
1052	Amperometric Sensors. 2004 , 1-18		
1051	Refractive-index-sensitive, plasmon-resonant-scattering, and surface-enhanced Raman-scattering nanoparticles and arrays as biological sensing platforms. 2004 , 5327, 60		16
1050	Trends and challenges in biochemical sensors for clinical and environmental monitoring. 2004 , 76, 861-878		102
1049	Biosensors for environmental applications: Future development trends. 2004 , 76, 723-752		160
1048	Application of a quartz crystal microbalance to evaluate biodegradability of starch by <i>Bacillus subtilis</i> . 2004 , 26, 1095-9		6
1047	Using solution-phase nanoparticles, surface-confined nanoparticle arrays and single nanoparticles as biological sensing platforms. 2004 , 14, 355-67		196
1046	Progress in Enzyme-Based Biosensors Using Optical Transducers. 2004 , 148, 107-132		72
1045	Comparative investigation between acetylcholinesterase obtained from commercial sources and genetically modified <i>Drosophila melanogaster</i> : application in amperometric biosensors for methamidophos pesticide detection. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 825-32	11.8	55
1044	Biosensors for environmental monitoring of endocrine disruptors: a review article. 2004 , 378, 588-98		124
1043	Patterning of electrically conductive poly(aniline-co-aniline sulfonic acid) and its application in the immobilization of cytochrome c. 2004 , 24, 307-309		6

1042	Direct voltammetry and catalysis of hemoenzymes in methyl cellulose film. 2004 , 49, 3195-3200		27
1041	A correlation study between the conformation of the 1,4-dithiane SAM on gold and its performance to assess the heterogeneous electron-transfer reactions. 2004 , 566, 443-449		18
1040	Enzyme immobilization procedures on screen-printed electrodes used for the detection of anticholinesterase pesticides. 2004 , 523, 107-115		82
1039	Short-term BOD (BOD _{st}) as a parameter for on-line monitoring of biological treatment process. Part I. A novel design of BOD biosensor for easy renewal of bio-receptor. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 562-70	11.8	38
1038	. 2004 , 4, 412-429		50
1037	Improving the sensitivity and dynamic range of reagentless fluorescent immunosensors by knowledge-based design. 2004 , 43, 15453-62		17
1036	Profiling the allosteric response of an engineered beta-galactosidase to its effector, anti-HIV antibody. 2004 , 314, 854-60		15
1035	Nanosphere lithography: fabrication of large-area Ag nanoparticle arrays by convective self-assembly and their characterization by scanning UV-visible extinction spectroscopy. 2004 , 20, 6927-31		108
1034	Electrochemical Sensors: A Review of Techniques and Applications in Point of Care Testing. 2004 , 3, 49-59		4
1033	Biosensors: basic features and application for fatty acid-binding protein, an early plasma marker of myocardial injury. 2005 , 105, 50-59		
1032	Biosensors: basic features and application for fatty acid-binding protein, an early plasma marker of myocardial injury. 2005 , 105, 50-59		12
1031	Electrochemical impedance spectroscopy studies of polymer degradation: application to biosensor development. 2005 , 24, 37-48		140
1030	Imaging of ATP membrane transport with dual micro-disk electrodes and scanning electrochemical microscopy. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 346-53	11.8	54
1029	On-line load monitoring of wastewaters with a respirographic microbial sensor. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 365-71	11.8	36
1028	Optimisation of an electronic amplifier applied to electrolyte/insulator/semiconductor structure. 2005 , 545, 195-199		
1027	A sequential enzymatic microreactor system for ethanol detection of gasohol mixtures. 2005 , 121-124, 361-71		10
1026	The detection of UV-induced membrane damages by a combination of two biosensor techniques. 2005 , 81, 1417-23		11
1025	Direct electrochemistry and electrocatalysis of heme proteins entrapped in agarose hydrogel films in room-temperature ionic liquids. 2005 , 21, 9260-6		326

1024	One-step immunostrip test for the simultaneous detection of free and total prostate specific antigen in serum. 2005 , 307, 1-12		75
1023	Bioelectrocatalytic signaling from immunosensors with back-filling immobilization of glucose oxidase on biorecognition surfaces. 2005 , 89, 815-21		29
1022	Biosensors for real-time in vivo measurements. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2388-403	11.8	558
1021	Development of an enzyme-modified carbon paste electrode for determining inhibitors of lipoxygenase. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 655-60	11.8	15
1020	Biosensors for the Environment. 2005 , 60, 887-897		2
1019	. 2005 ,		114
1018	Nanotechnology on duty in medical applications. 2005 , 6, 17-33		169
1017	Chapter 10 Non-affinity sensing technology: the exploitation of biocatalytic events for environmental analysis. 2005 , 429-537		3
1016	Chapter 12 Coupling of microdialysis sampling with biosensing detection modes. 2005 , 44, 579-626		1
1015	A Sequential Enzymatic Microreactor System for Ethanol Detection of Gasohol Mixtures. 2005 , 361-371		0
1014	Probes and Sensors for Cations. 2005 , 1-57		9
1013	Amperometric Enzyme Sensors based on Direct and Mediated Electron Transfer. 2005 , 1, 599-655		13
1012	Biological applications of localised surface plasmonic phenomenae. 2005 , 152, 13-32		218
1011	Chapter 7 New materials for biosensors, biochips and molecular bioelectronics. 2005 , 285-327		15
1010	Application of Electrically Contacted Enzymes for Biosensors. 2005 , 99-126		6
1009	Electrochemical Immunosensors on the Route to Proteomic Chips. 2005 , 1, 451-483		5
1008	Insertional protein engineering for analytical molecular sensing. 2006 , 5, 15		23
1007	Monolithic silicon optoelectronic devices for protein and DNA detection. 2006 ,		

1006	Immune-biosensor for aflatoxin B1 based bio-electrocatalytic reaction on micro-comb electrode. 2006 , 32, 211-217	88
1005	Twenty years research in cholinesterase biosensors: from basic research to practical applications. 2006 , 23, 1-15	284
1004	Electrochemical biosensors based on nucleic acids and their use in bioaffinity assays for determining DNA and its effectors. 2006 , 61, 728-739	9
1003	Biosensors as useful tools for environmental analysis and monitoring. 2006 , 386, 1025-41	327
1002	A new amperometric biosensor for fructose determination based on epoxy-graphite-TTF-TCNQ-FDH-biocomposite. 2006 , 223, 379-386	15
1001	Development of trypsin biosensor based on ion sensitive field-effect transistors for proteins determination. 2006 , 26, 369-373	20
1000	Molekül-Detektive. Biosensoren. 2006 , 40, 32-40	3
999	NADH Electrooxidation Using Bis(1,10-phenanthroline-5,6-dione) (2,2'-bipyridine)ruthenium(II)-Exchanged Zirconium Phosphate Modified Carbon Paste Electrodes. 2006 , 18, 559-572	38
998	Biotechnological Applications of Photosynthetic Proteins: Biochips, Biosensors and Biodevices. 2006 ,	10
997	Microbiosensors for measurement of microbially available dissolved organic carbon: sensor characteristics and preliminary environmental application. 2006 , 72, 7063-73	16
996	A bio-imprinted ascorbate oxidase biosensor. 2007 , 87, 723-729	5
995	DNA-metallodrugs interactions signaled by electrochemical biosensors: an overview. 2007 , 2007, 91078	10
994	Chapter 25 Coupling of screen-printed electrodes and magnetic beads for rapid and sensitive immunodetection: polychlorinated biphenyls analysis in environmental samples. 2007 , 49, 585-602	1
993	Biosensors: A Theoretical Approach to Understanding Practical Systems. 283-319	
992	The role of lipid II in membrane binding of and pore formation by nisin analyzed by two combined biosensor techniques. 2007 , 1768, 694-704	44
991	Two biosensors for phenolic compounds based on mushroom (<i>Agaricus bisporus</i>) homogenate: comparison in terms of some important parameters of the biosensors. 2008 , 38, 51-60	3
990	Quantitative evaluation of sensitivity and selectivity of multiplex nanoSPR biosensor assays. 2007 , 93, 3684-92	86
989	Novel Patterning of Gold Using Spin-Coatable Gold Electron-Beam Resist. 2007 , 29, 814-816	2

988	. 2007 ,	3
987	Label-Free Impedance Biosensors: Opportunities and Challenges. 2007 , 19, 1239-1257	885
986	A Calibration-Base Method for the Evaluation of the Detection Limit of an Electrochemical Biosensor. 2007 , 19, 1227-1230	22
985	Plasma-polymerized films for biosensors II. 2007 , 26, 433-443	26
984	Amperometric glucose biosensor based on self-assembly hydrophobin with high efficiency of enzyme utilization. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3021-7	11.8 62
983	Stable enzyme biosensors based on chemically synthesized Au-polypyrrole nanocomposites. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 168-75	11.8 130
982	Comparison of amperometric biosensors fabricated by palladium sputtering, palladium electrodeposition and Nafion/carbon nanotube casting on screen-printed carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 877-84	11.8 54
981	Nanowire labeled direct-charge transfer biosensor for detecting <i>Bacillus</i> species. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2329-36	11.8 115
980	Allosteric molecular sensing of anti-HIV antibodies by an immobilized engineered β -galactosidase. 2007 , 41, 492-497	3
979	Characterization of a planar l-glutamate amperometric biosensor immobilized with a photo-crosslinkable polymer membrane. 2007 , 122, 195-203	9
978	Optimization of a bacterial bioluminescent biosensor through experimental design. 2007 , 127, 649-657	4
977	Preliminary study on the potential utility of GFP as a biosensor for drug stability in parenteral solutions. 2007 , 23, 979-84	2
976	An electrochemical enzyme immunoassay for aflatoxin B1 based on bio-electrocatalytic reaction with room-temperature ionic liquid and nanoparticle-modified electrodes. 2008 , 2, 43-50	27
975	Development of a myoglobin impedimetric immunosensor based on mixed self-assembled monolayer onto gold. 2008 , 160, 447-454	40
974	Development and implementation of microbial sensors for efficient process control in wastewater treatment plants. 2008 , 31, 277-82	19
973	Nanocomposites: From Fabrications to Electrochemical Bioapplications. 2008 , 20, 648-662	130
972	Capillary-based immunoassays, immunosensors and DNA sensors β steps towards integration and multi-analysis. 2008 , 27, 771-784	22
971	Optical biosensors. 2008 , 108, 423-61	773

970	Towards a FRET-based immunosensor for continuous carbohydrate monitoring. 2008 , 333, 107-14	9
969	Classification of Chemical Sensors and Biosensors Based on Fluorescence and Phosphorescence. 2008 , 325-346	10
968	Biosensors for biomarkers in medical diagnostics. 2008 , 13, 637-57	128
967	Nanostructured materials for enzyme immobilization and biosensors. 2008 , 355-394	15
966	Electrochemical Biosensors - Sensor Principles and Architectures. 2008 , 8, 1400-1458	524
965	Nucleic acid biosensors for environmental pollution monitoring. 2008 , 133, 846-54	170
964	Forward error correcting biosensors: Modeling, algorithms and fabrication. 2008 ,	
963	Hemoglobin Modified Carbon Paste Electrode: Direct Electrochemistry and Electrocatalysis. 2008 , 41, 2819-2831	9
962	Detection and identification of beta-lactam residues in milk using a hybrid biosensor. 2008 , 56, 784-8	42
961	Phage-Displayed Epitopes as Bioreceptors for Biosensors. 2008 ,	1
960	A multiplexed biosensor based on biomolecular nanowires. 2008 ,	
959	Sensitivity and Selectivity Limits of Multiplex NanoSPR Biosensor Assays. 2008 , 386-401	
958	Fiber-Optic Array Biosensors. 2008 ,	
957	Recombinant Whole-Cell Bioreporter Systems Based on Beetle Luciferases. 2008 ,	
956	Reagentless optical biosensors for organic compounds based on auto-indicating proteins. 2008 , 15, 772-8	2
955	Amperometric Enzyme-based Gas Sensor for Formaldehyde: Impact of Possible Interferences. 2008 , 8, 1351-1365	17
954	. 2009 ,	16
953	Applications of Thick Film Screen Printing and Ink Jet Printing for the Manufacturing of Single Use, Disposable Biosensors. 2009 , 16, 3-13	0

952	Applications of nanomaterials in electrogenerated chemiluminescence biosensors. 2009 , 9, 674-95	88
951	Integration Between Template-Based Nanostructured Surfaces and Biosensors. 377-419	1
950	Die Anwendung von Viren in Chemo- und Biosensoren. 2009 , 121, 6922-6943	14
949	Electrochemical Aptasensors. 2009 , 21, 1237-1250	133
948	Virus-based chemical and biological sensing. 2009 , 48, 6790-810	217
947	Electrochemical biosensors for food analysis. 2009 , 140, 891-899	71
946	Biomolecule-functionalized magnetic nanoparticles for flow-through quartz crystal microbalance immunoassay of aflatoxin B1. 2009 , 32, 109-16	35
945	Different calibration methods of a microbial BOD sensor for analysis of municipal wastewaters. 2009 , 141, 233-238	12
944	Direct electrochemistry of chemically modified catalase immobilized on an oxidatively activated glassy carbon electrode. 2009 , 39, 7-14	12
943	Direct electrochemistry and electrocatalysis of hemoglobin on nanostructured gold colloid-silk fibroin modified glassy carbon electrode. 2009 , 139, 598-603	27
942	A new HRP/catalase biosensor based on microconductometric transduction for nitrite determination. 2009 , 29, 1919-1922	18
941	Electrochemical detection of glyphosate herbicide using horseradish peroxidase immobilized on sulfonated polymer matrix. 2009 , 75, 117-23	70
940	Selective immobilization of oligonucleotide-modified gold nanoparticles by electrodeposition on screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 778-83	11.8 24
939	Immobilization strategies of Brucella particles on optical fibers for use in chemiluminescence immunosensors. 2009 , 80, 338-45	15
938	Hydrogels for Biosensors. 2009 , 197-220	19
937	Applications of nanomaterials in electrochemical enzyme biosensors. 2009 , 9, 8547-61	107
936	Label-free electrochemical detection of the p53 core domain protein on its antibody immobilized electrode. 2009 , 81, 4770-7	22
935	Biosensors, Toxicity Monitoring. 2009 , 1	

934	Biosensors for endocrine disruptors. 2009 , 183-208		4
933	Silicon optocouplers for biosensing. 2009 , 6, 4		7
932	Screen-printed electrodes modified with HRP-zirconium alcoxide film for the development of a biosensor for acetaminophen detection. 2010 , 8, 1034-1040		3
931	Enzyme for Biosensing Applications. 2010 , 177-220		10
930	Determination of beta-glucosidase activity in soils with a bioanalytical sensor modified with multiwalled carbon nanotubes. 2010 , 397, 1347-53		21
929	Fructose-selective calorimetric biosensor in flow injection analysis. 2010 , 668, 13-8		28
928	Evaluation of a simple and low cost potentiometric biosensor for pharmaceutical and in vivo adrenaline determination. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 798-802	11.8	14
927	Recent advances in recognition elements of food and environmental biosensors: a review. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1178-94	11.8	231
926	Amperometric glucose biosensor based on platinum nanoparticle encapsulated with a clay. 2010 , 171, 233-239		20
925	Kohlenstoffnanomaterialien für Biosensoren: Nanoröhren oder Graphen – was eignet sich besser?. 2010 , 122, 2160-2185		51
924	Carbon nanomaterials in biosensors: should you use nanotubes or graphene?. 2010 , 49, 2114-38		1188
923	Semi-specific biosensors for measuring BOD in dairy wastewater. 2010 , 85, 957-961		8
922	Laccase/MWCNT/chitosan biosensor: A new tool for total polyphenolic content evaluation from in vitro cultivated plants. 2010 , 145, 800-806		107
921	Carbon nanotubes towards medicinal biochips. 2010 , 2, 1-10		9
920	Recent Developments in Bio-Energy Recovery Through Fermentation. 2010 , 35-58		11
919	Biosensors for the determination of phenolic metabolites. 2010 , 698, 234-40		19
918	Knowledge-based design of reagentless fluorescent biosensors from a designed ankyrin repeat protein. 2010 , 23, 229-41		14
917	Laccase-Nafion Based Biosensor for the Determination of Polyphenolic Secondary Metabolites. 2010 , 43, 1089-1099		22

916	Glucose biosensors: an overview of use in clinical practice. 2010 , 10, 4558-76	627
915	An amperometric immunosensor based on a polyelectrolyte/gold magnetic nanoparticle supramolecular assembly-modified electrode for the determination of HIV p24 in serum. 2010 , 15, 5053-65	16
914	A Parametric Design Study of an Electrochemical Sensor. 2010 , 15, 179-188	8
913	Improved enzyme immobilization on an ionic-complementary peptide-modified electrode for biomolecular sensing. 2010 , 26, 2176-80	8
912	Meat species identification based on the loop mediated isothermal amplification and electrochemical DNA sensor. 2010 , 21, 599-605	84
911	A rapid and sensitive alcohol oxidase/catalase conductometric biosensor for alcohol determination. 2010 , 81, 222-7	27
910	Bio-Farms for Nutraceuticals. 2010 ,	7
909	Biosensors as analytical tools in food fermentation industry. 2010 , 698, 293-307	11
908	Luminescent chemical sensing, biosensing, and screening using upconverting nanoparticles. 2011 , 300, 29-50	71
907	Necessity of a Thorough Characterization of Functionalized Silicon Wafers before Biointerface Studies. 2011 , 115, 11102-11111	27
906	Integrated Nano-Bio-VLSI Approach for Designing Error-Free Biosensors. 2011 , 217-240	
905	Nanobiosensing for Clinical Diagnosis. 2011 , 535-567	3
904	Biosensors based on combined optical and electrochemical transduction for molecular diagnostics. 2011 , 11, 533-46	21
903	The need and potential of biosensors to detect dioxins and dioxin-like polychlorinated biphenyls along the milk, eggs and meat food chain. 2011 , 11, 11692-716	35
902	A nanostructured piezoelectric immunosensor for detection of human cardiac troponin T. 2011 , 11, 10785-97	31
901	The Interface in Biosensing: Improving Selectivity and Sensitivity. 2011 , 225-247	11
900	Luminescence Applied in Sensor Science. 2011 ,	7
899	NanoBiosensing. 2011 ,	26

898	Microbial Biosensors for Environmental Monitoring and Food Analysis. 2011 , 27, 300-329		58
897	Tyrosinase immobilized magnetic nanobeads for the amperometric assay of enzyme inhibitors: application to the skin whitening agents. 2011 , 83, 980-7		36
896	Mimicking nature's noses: from receptor deorphaning to olfactory biosensing. 2011 , 93, 270-96		95
895	. 2011 ,		14
894	Chemical and Biological Sensors at Component and Device Level. 2011 , 179-198		2
893	Microbial biosensors for detection of biological oxygen demand (a Review). 2011 , 47, 1-11		38
892	Capacitive microsystems for biological sensing. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 1-11	11.8	88
891	Dendrimer-encapsulated Pt nanoparticles on mesoporous silica for glucose detection. 2011 , 15, 511-517		24
890	Bienzymatic sensor based on the use of redox enzymes and chitosan/MWCNT nanocomposite. Evaluation of total phenolic content in plant extracts. 2011 , 172, 177-184		35
889	Whole-cell aquatic biosensors. 2011 , 400, 895-913		87
888	Electrochemical sensor for blood deoxyribonucleases: design and application to the diagnosis of autoimmune thyroiditis. 2011 , 401, 2591-7		5
887	Ultra trace analysis of small molecule by label-free impedimetric immunosensor using multilayer modified electrode. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4571-8	11.8	20
886	Fast detection of hydrogen sulfide using a biodegradable colorimetric indicator system. 2011 , 60, 951-956		17
885	Fabrication and Evaluation of Nanoparticle-Based Biosensors. 2011 , 73-93		2
884	Urchinlike MnO ₂ nanoparticles for the direct electrochemistry of hemoglobin with carbon ionic liquid electrode. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2119-24	11.8	61
883	Development of a label-free impedance biosensor for detection of antibody-antigen interactions based on a novel conductive linker. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3072-6	11.8	18
882	A novel nitrite biosensor based on single-layer graphene nanoplatelet-protein composite film. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4436-41	11.8	119
881	Silicon nanowire field-effect transistor-based biosensors for biomedical diagnosis and cellular recording investigation. 2011 , 6, 131-154		469

880	Conducting polymers with benzothiadiazole and benzoselenadiazole units for biosensor applications. 2011 , 158, 117-123	38
879	3D integrable nanowire FET sensor with intrinsic sensitivity boost. 2011 ,	2
878	Recent Advances in Electrochemical Glycobiosensing. 2011 , 2011, 1-11	16
877	Polyaniline Nanostructures with Controlled Morphology Via Pseudo-high Dilution Technique. 2011 , 48, 742-750	
876	Design and Development of Biosensors for the Detection of Heavy Metal Toxicity. 2011 , 2011, 1-15	106
875	Biosensor de Glucosa basado en un Biocompósito disperso de Grafito-Epoxi-Platino-Glucosa Oxidasa. 2011 , 22, 29-40	4
874	Self-assembled films of dendrimers and metallophthalocyanines as FET-based glucose biosensors. 2011 , 11, 9442-9	22
873	Design of nanostructured-based glucose biosensors. 2012 ,	
872	Indicators for optical oxygen sensors. 2012 , 1-70	
871	A surface plasmon resonance biosensor for angular and wavelength operation. 2012 ,	3
870	A New Amperometric Alcohol Oxidase Biosensor Based on Conducting Polymer of (4,7-Dithien-2-yl-2, 1,3-benzothiadiazole). 2012 , 49, 185-190	7
869	ImmunoFET feasibility in physiological salt environments. 2012 , 370, 2474-88	17
868	A highly efficient nano-cluster artificial peroxidase and its direct electrochemistry on a nano complex modified glassy carbon electrode. 2012 , 28, 711-6	8
867	Detection and Detoxification of Organophosphate Warfare Agents. 2012 , 245-259	
866	Biosensors for Pesticide Detection: New Trends. 2012 , 03, 210-232	140
865	Evolving Trends in Transition Metal-Modified Receptor Design and Function. 2012 , 239-259	
864	Carbon nanomaterials field-effect-transistor-based biosensors. 2012 , 4, e23-e23	180
863	Electrochemical Biosensors for Cancer Biomarker Detection. 2012 , 24, 2213-2229	77

862	Lousicidal activity of synthesized silver nanoparticles using Lawsonia inermis leaf aqueous extract against Pediculus humanus capitis and Bovicola ovis. 2012 , 111, 2023-33	29
861	BOD biosensors for pulp and paper industry wastewater analysis. 2011 , 19, 3039-45	11
860	Direct Electrochemistry of Artificial Peroxidase Based on Self-Assembled Cytochrome c-SDS-Nano-Micelle. 2012 , 45, 2221-2235	6
859	A current-mode potentiostat for multi-target detection tested with different lactate biosensors. 2012 ,	7
858	Mono/bidentate thiol oligoarylene-based self-assembled monolayers (SAMs) for interface engineering. 2012 , 22, 12155	15
857	Prototyping Ubiquitous Biosensing Applications through Speculative Design. 2012 ,	
856	Detection and quantification through a lipid membrane using the molecularly controlled semiconductor resistor. 2012 , 28, 1020-8	12
855	Recent advances in polymeric materials used as electron mediators and immobilizing matrices in developing enzyme electrodes. 2012 , 12, 923-53	44
854	Carbon nanotubes coated with platinum nanoparticles as anode of biofuel cell. 2012 , 10, 450-455	20
853	Microfluidic Devices. 2012 , 177-217	5
852	Indicators for optical oxygen sensors. 2012 , 4, 115-157	296
851	Portable Chemical Sensors. 2012 ,	2
850	Amperometric Biosensors. 2012 , 1-83	28
849	Lipases and Phospholipases. 2012 ,	12
848	Interfacial structures and properties of organic materials for biosensors: an overview. 2012 , 12, 15036-62	49
847	Low Bod Determination Methods: The State-of-the-Art. 2012 , 33, 629-637	2
846	. 2012 ,	5
845	Biosensors for Clinical Biomarkers. 2012 , 203-227	

844	Enhancement of Enzymatic IDE Biosensor Response Using Gold Nanoparticles. Example of the Detection of Urea. 2012 , 24, 1088-1094	21
843	Lipase and phospholipase biosensors: a review. 2012 , 861, 525-43	15
842	Comparative study of semi-specific <i>Aeromonas hydrophila</i> and universal <i>Pseudomonas fluorescens</i> biosensors for BOD measurements in meat industry wastewaters. 2012 , 50, 221-6	23
841	Comparative behavior of glucose oxidase and oxalate oxidase immobilized in mucin/chitosan hydrogels for biosensors applications. 2012 , 53, 438-444	13
840	Recent Trends for (Bio)Chemical Impedance Sensor Electronic Interfaces. 2012 , 24, 563-572	10
839	On-site airborne pheromone sensing. 2013 , 405, 6389-403	10
838	New trends in the electrochemical sensing of dopamine. 2013 , 405, 3753-71	292
837	Biosensors in the small scale: methods and technology trends. 2013 , 7, 7-21	32
836	Biosensor technology: recent advances in threat agent detection and medicine. 2013 , 42, 8733-68	307
835	Performance limitations for nanowire/nanoribbon biosensors. 2013 , 5, 629-45	34
834	Nanostructured polyaniline thin films as urea-sensing membranes in field-effect devices. 2013 , 175, 108-111	20
833	Semi-specific <i>Microbacterium phyllosphaerae</i> -based microbial sensor for biochemical oxygen demand measurements in dairy wastewater. 2013 , 20, 2492-8	5
832	Rapid detection of <i>E. coli</i> bacteria using potassium-sensitive FETs in CMOS. 2013 , 7, 621-30	27
831	<i>Nitrosomonas</i> sp. Based biosensor for ammonium nitrogen measurement in wastewater. 2013 , 18, 1016-1021	9
830	Recent advances in optical biosensors for environmental monitoring and early warning. 2013 , 13, 13928-48	190
829	Conductometric monitoring of protein-protein interactions. 2013 , 12, 5535-47	12
828	Enabling fluorescent biosensors for the forensic identification of body fluids. 2013 , 138, 7279-88	24
827	Advances in pathogen-associated molecules detection using Aptamer based biosensors. 2013 , 9, 311-317	18

826	Sensors and biosensors for analysis of bisphenol-A. 2013 , 52, 248-260	147
825	Microfluidics applied to Love-wave devices to detect biological warfare agents in dynamic mode. 2013 ,	
824	Amperometric Sensors. 2013 , 115-171	2
823	A Surface Plasmon Resonance Biochip That Operates Both in the Angular and Wavelength Interrogation Modes. 2013 , 62, 1223-1232	30
822	. 2013 , 13, 4180-4187	8
821	Photoresist microbridge pattern optimization at 1 μ m using conventional photolithography technique. 2013 ,	1
820	Electrochemical lectin based biosensors as a label-free tool in glycomics. 2013 , 180, 1-13	52
819	One-step fabrication of bio-functionalized nanoporous gold/poly(3,4-ethylenedioxythiophene) hybrid electrodes for amperometric glucose sensing. 2013 , 116, 1054-9	43
818	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. 2013 , 5, 3043-51	136
817	Comparative study of three lactate oxidases from <i>Aerococcus viridans</i> for biosensing applications. 2013 , 93, 72-79	27
816	Biocompatibility and Functionalization. 2013 , 83-125	
815	Comparison of two types of acoustic biosensors to detect immunoreactions: Love-wave sensor working in dynamic mode and QCM working in static mode. 2013 , 189, 123-129	14
814	Micropatterned reduced graphene oxide based field-effect transistor for real-time virus detection. 2013 , 186, 252-257	61
813	Biosensors in Food PDO Authentication. 2013 , 60, 279-297	5
812	Biosensors in food processing. 2013 , 50, 625-41	171
811	Synergizing nucleic acid aptamers with 1-dimensional nanostructures as label-free field-effect transistor biosensors. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 278-93	11.8 28
810	Introduction to Biosensors. 2013 ,	6
809	Design of poly(N-acryloylglycine) materials for incorporation of microorganisms. 2013 , 130, 835-841	3

808	Biosensors based on enzyme inhibition. 2014 , 140, 299-326	8
807	Biosensor based on laccase immobilized on plasma polymerized allylamine/carbon electrode. 2013 , 33, 3197-205	25
806	New Amperometric Cholesterol Biosensors Using Poly(ethyleneoxide) Conducting Polymers. 2013 , 50, 1075-1084	12
805	Carbon nanotube-based optical platforms for biomolecular detection. 2013 , 270-303e	1
804	Direct electrochemistry of hemoglobin immobilized on a functionalized multi-walled carbon nanotubes and gold nanoparticles nanocomplex-modified glassy carbon electrode. 2013 , 13, 8595-611	42
803	Integration of biosensors and drug delivery technologies for early detection and chronic management of illness. 2013 , 13, 7680-713	38
802	Electrochemical biosensors for on-chip detection of oxidative stress from cells. 2013 , 526, 107-21	10
801	A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. 2013 , 13, 4860-4865	3
800	Healthy and adverse effects of plant-derived functional metabolites: the need of revealing their content and bioactivity in a complex food matrix. 2013 , 53, 198-213	47
799	Functional peptides for capacitative detection of Ca ²⁺ ions. 2013 , 210, 1030-1037	1
798	Nanotechnology for Water and Wastewater Treatment. 2013 , 12,	6
797	BOD Biosensors: Application of Novel Technologies and Prospects for the Development. 2013 ,	5
796	Recent Progress in Optical Biosensors for Environmental Applications. 2013 ,	2
795	Emerging Trends in Medical Diagnosis: A Thrust on Nanotechnology. 2014 , 4,	1
794	. 2014 ,	5
793	AlGa _N /Ga _N field effect transistors functionalized with recognition peptides. 2014 , 105, 134103	7
792	Biosensor Arrays for Estimating Molecular Concentration in Fluid Flows. 2014 , 62, 239-251	2
791	Carbon Nanotubes in Biomedical Applications. 2014 , 439-474	

790	Review of Physical Principles of Sensing and Types of Sensing Materials. 2014 , 5-46	3
789	Nanoscaled aptasensors for multi-analyte sensing. 2014 , 4, 205-15	24
788	Microfiber coupler based label-free immunosensor. 2014 , 22, 8150-5	17
787	Glucose Oxidase Biosensor Modeling by Machine Learning Methods. 2014 , 464-473	
786	Carbon dioxide and oxygen gas sensors-possible application for monitoring quality, freshness, and safety of agricultural and food products with emphasis on importance of analytical signals and their transformation. 2014 , 57, 723-733	43
785	Electrochemical Sensor and Biosensors. 2014 , 155-165	1
784	DNA Biosensors. 2014 , 313-330	2
783	Lawsonia inermis-mediated synthesis of silver nanoparticles: activity against human pathogenic fungi and bacteria with special reference to formulation of an antimicrobial nanogel. 2014 , 8, 172-8	35
782	Optical and dielectric sensors based on antimicrobial peptides for microorganism diagnosis. 2014 , 5, 443	22
781	Silicon-Based Platform for Biosensing Applications. 2014 , 39-59	2
780	Chemically Modified Electrodes in Biosensing. 2014 , 05,	3
779	Electrochemical Detection. 2014 , 147-188	1
778	Biosensor-based microRNA detection: techniques, design, performance, and challenges. 2014 , 139, 1576-88	109
777	Advances in nanowire transistors for biological analysis and cellular investigation. 2014 , 139, 1589-608	43
776	Direct electrochemistry of glucose oxidase and glucose biosensing on a hydroxyl fullerenes modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 30-4	11.8 49
775	The Diagnostic Utility of Electrochemical Impedance. 2014 , 26, 1249-1258	34
774	A new osmium-polymer modified screen-printed graphene electrode for fructose detection. 2014 , 195, 287-293	51
773	Functionalized MoS(2) nanosheet-based field-effect biosensor for label-free sensitive detection of cancer marker proteins in solution. 2014 , 10, 1101-5	211

772	Biosensors Based on Aptamers and Enzymes. 2014,	6
771	Gold nanorod-based localized surface plasmon resonance biosensors: A review. 2014, 195, 332-351	471
770	Examining the effects of self-assembled monolayers on nanoporous gold based amperometric glucose biosensors. 2014, 139, 488-94	26
769	Rapid optimization of a lactate biosensor design using soft probes scanning electrochemical microscopy. 2014, 731, 112-118	11
768	Cell membrane electrical charge investigations by silicon nanowires incorporated field effect transistor (SiNW-FET) suitable in cancer research. 2014, 4, 7425	18
767	Photo-controlled deactivation of immobilised lipase. 2014, 50, 12645-8	7
766	Advances in biosensors: Principle, architecture and applications. 2014, 12, 1-15	296
765	Prussian Blue and Analogues: Biosensing Applications in Health Care. 2014, 423-450	2
764	An ultrasensitive electrochemical immunosensor for carcinoembryonic antigen detection based on staphylococcal protein A/Au nanoparticle modified gold electrode. 2014, 197, 220-227	69
763	Ionic liquid of a gold nanocluster: a versatile matrix for electrochemical biosensors. 2014, 8, 671-9	112
762	Titanium dioxide nanomaterials for sensor applications. 2014, 114, 10131-76	573
761	Bacteriophage biosensors for antibiotic-resistant bacteria. 2014, 11, 175-86	19
760	Trends in protein-based biosensor assemblies for drug screening and pharmaceutical kinetic studies. 2014, 19, 12461-85	22
759	Detection of Human Pathogens under Basic Laboratory Conditions by DNA Hybridization Arrays. 2014, 277-286	
758	Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnostics. 2015,	1
757	Conceptual design of biosensors. 2015,	2
756	Sensors and Bioselective Reagents. 2015,	0
755	Recent Investigations of Single Living Cells with Ultramicroelectrodes. 2015, 454-483	2

754	High-overtone bulk-acoustic resonator gravimetric sensitivity: Towards wideband acoustic spectroscopy. 2015 , 118, 114505	11
753	Conjugated Polymer Nanocomposites for Biosensors. 2015 , 687-730	
752	A double gate FET nanoscale biosensor for detecting ovarian cancer biomarker HE4. 2015 ,	2
751	Mechanochemical Sensing: A Biomimetic Sensing Strategy. 2015 , 16, 1829-37	6
750	Lateral Flow Immunoassays From Paper Strip to Smartphone Technology. 2015 , 27, 2116-2130	71
749	Comparative Study of Nanostructured Matrices Employed in the Development of Biosensors Based on HRP Enzyme for Determination of Phenolic Compounds. 2015 , 27, 1572-1578	2
748	Sensor systems for bioprocess monitoring. 2015 , 15, 469-488	114
747	. 2015 ,	26
746	Microbial biosensors for environmental monitoring. 2015 , 106, 67-75	10
745	Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. 2015 , 15, 30011-31	273
744	Recent Advances on Electrochemical Enzyme Biosensors. 2015 , 12, 5-21	7
743	Development of an amperometric-based glucose biosensor to measure the glucose content of fruit. 2015 , 10, e0111859	38
742	Trends in Biosensors for HPV: Identification and Diagnosis. 2015 , 2015, 1-16	17
741	CMOS electrochemical biosensors: instrumentation and integration. 448-468	
740	Fluorescence spectroscopy approaches for the development of a real-time organophosphate detection system using an enzymatic sensor. 2015 , 15, 3932-51	37
739	Electrospinning-Based Nanobiosensors. 2015 , 225-279	4
738	Voltammetric determination of phytoinhibitor maleic hydrazide using PEDOT:PSS composite electrode. 2015 , 751, 65-74	27
737	Quartz-Crystal Microbalance (QCM) for Public Health: An Overview of Its Applications. 2015 , 101, 149-211	20

736	Encyclopedia of Membranes. 2015 , 1-4		
735	Detection of Cancer Biomarkers by Biosensors. 2015 , 109-167		1
734	Marine Biomaterials in Therapeutics and Diagnostic. 2015 , 1247-1263		6
733	Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. 2015 , 13, 636-655		43
732	Rational design and applications of conducting polymer hydrogels as electrochemical biosensors. 2015 , 3, 2920-2930		126
731	Sensors and biosensors for monitoring marine contaminants. 2015 , 6-7, 21-30		31
730	Electrochemical Biosensors for miRNA Detection. 2015 , 1-19		
729	General approach for electrochemical detection of persistent pharmaceutical micropollutants: Application to acetaminophen. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 205-10	11.8	18
728	Acetylcholinesterase biosensor for inhibitor measurements based on glassy carbon electrode modified with carbon black and pillar[5]arene. 2015 , 144, 559-68		45
727	A cost-effective fluorescence mini-microscope for biomedical applications. 2015 , 15, 3661-9		68
726	Microbial fuel cell-based biosensors for environmental monitoring: a review. 2015 , 71, 801-9		103
725	. 2015 , 33, 3374-3384		13
724	Combining electrochemical sensors with miniaturized sample preparation for rapid detection in clinical samples. 2014 , 15, 547-64		37
723	Simultaneous detection of multiple bioactive pollutants using a multiparametric biochip for water quality monitoring. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 71-9	11.8	7
722	Electrospinning for High Performance Sensors. 2015 ,		23
721	Biosupercapacitors for powering oxygen sensing devices. 2015 , 106, 34-40		40
720	Building an aptamer/graphene oxide FRET biosensor for one-step detection of bisphenol A. 2015 , 7, 7492-6		115
719	Gold nanoparticles and nanostructures in optical biosensors. 2015 , 30, B167-B177		5

718	Laccase-based biosensors for detection of phenolic compounds. 2015 , 74, 21-45		175
717	Main Technological Advancements in Bacterial Bioluminescent Biosensors Over the Last Two Decades. 2015 , 101		4
716	The art of signal transforming: electrodes and their smart applications in electrochemical sensing. 2015 , 7, 9732-9743		14
715	Electrochemical Biosensors for Drug Analysis. 2015 , 141-186		1
714	Preparation and characterization of silver nanoparticles-reduced graphene oxide on ITO for immunosensing platform. 2015 , 221, 1423-1432		17
713	Porous Silicon Biosensors Employing Emerging Capture Probes. 2015 , 93-116		4
712	An amperometric microbial biosensor for the determination of vitamin B12. 2015 , 7, 8185-8189		13
711	Role of Biosensors in Environmental Monitoring. 2015 , 77-90		1
710	Dynamic analysis and performance evaluation of the BIAcore surface plasmon resonance biosensor. 2015 ,		
709	Europium Nanospheres-Based Time-Resolved Fluorescence for Rapid and Ultrasensitive Determination of Total Aflatoxin in Feed. 2015 , 63, 10313-8		34
708	Novel biosensing methodologies for improving the detection of single nucleotide polymorphism. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 297-307	11.8	43
707	Chemical sensors and biosensors for the detection of melamine. 2015 , 5, 1125-1147		60
706	Environmental Analysis by Electrochemical Sensors and Biosensors. 2015 ,		2
705	Carbon nanotube based biosensors. 2015 , 207, 690-715		321
704	Blueprint of quartz crystal microbalance biosensor for early detection of breast cancer through salivary autoantibodies against ATP6AP1. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 62-70	11.8	50
703	Quantitative analysis of immobilized penicillinase using enzyme-modified AlGa _N /Ga _N field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 605-10	11.8	14
702	Yeast-based self-organized hybrid bio-silica sol-gels for the design of biosensors. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 321-6	11.8	32
701	Basics of DNA biosensors and cancer diagnosis. 2016 , 44, 654-63		25

700	Chemical and biological sensors at component and device level. 2016 , 161-179	0
699	Nanohybrids Near-Field Optical Microscopy: From Image Shift to Biosensor Application. 2016 , 2016, 1-14	1
698	Enhanced Biosensor Platforms for Detecting the Atherosclerotic Biomarker VCAM1 Based on Bioconjugation with Uniformly Oriented VCAM1-Targeting Nanobodies. 2016 , 6,	15
697	Recent Trends in Field-Effect Transistors-Based Immunosensors. 2016 , 4, 20	60
696	Electrolytic Gated Organic Field-Effect Transistors for Application in Biosensors: A Review. 2016 , 5, 9	88
695	Application of Semipermeable Membranes in Glucose Biosensing. 2016 , 6,	31
694	Glucose Oxidase Biosensor Modeling and Predictors Optimization by Machine Learning Methods. 2016 , 16,	16
693	Electrochemical, Electrochemiluminescence, and Photoelectrochemical Aptamer-Based Nanostructured Sensors for Biomarker Analysis. 2016 , 6,	38
692	Microwave-assisted extraction in goji berries: effect on composition and bioactivity, evaluated through conventional and nonconventional methodologies. 2016 , 51, 1401-1408	6
691	Optimal design of amperometric biosensors applying multi-objective optimization and decision visualization. 2016 , 211, 586-594	11
690	Whole-cell detection of live lactobacillus acidophilus on aptamer-decorated porous silicon biosensors. 2016 , 141, 5432-40	55
689	5 Integrated Electronics, Analytical transducers, and Signal Processing. 2016 , 139-160	
688	Nanobiosensors in diagnostics. 2016 , 3, 1849543516663574	44
687	Application of Biosensors for Food Analysis. 2016 , 395-434	2
686	Biosensors. 2016 , 1-12	0
685	Conducting Polymer-based Electrochemical DNA Biosensing. 2016 , 485-500	
684	Voltammetric aptasensors for protein disease biomarkers detection: A review. 2016 , 34, 941-953	57
683	Morphological and physiological changes exhibited by a Cd-resistant Dictyosphaerium chlorelloides strain and its cadmium removal capacity. 2016 , 18, 1171-7	3

682	Quantitative real-time detection of carcinoembryonic antigen (CEA) from pancreatic cyst fluid using 3-D surface molecular imprinting. 2016 , 141, 4424-31	60
681	In situ synthesis of Ni(OH) ₂ /TiO ₂ composite film on NiTi alloy for non-enzymatic glucose sensing. 2016 , 232, 150-157	65
680	Biosensors based on oxidative enzymes for detection of environmental pollutants. 2016 , 1,	10
679	Toxicity assessment using different bioassays and microbial biosensors. 2016 , 92-93, 106-18	87
678	Electrochemical glucose biosensing via new generation DTP type conducting polymers/gold nanoparticles/glucose oxidase modified electrodes. 2016 , 770, 90-97	20
677	Critical overview on the application of sensors and biosensors for clinical analysis. 2016 , 85, 36-60	87
676	Architecture effects of glucose oxidase/Au nanoparticle composite Langmuir-Blodgett films on glucose sensing performance. 2016 , 366, 202-209	11
675	Mechanochemical Sensing of Single and Few Hg(II) Ions Using Polyvalent Principles. 2016 , 88, 9479-9485	7
674	Encyclopedia of Membranes. 2016 , 660-663	
673	Biosensor-Based Technologies for the Detection of Pathogens and Toxins. 2016 , 74, 93-120	13
672	Wearable Medical Monitoring Systems Based on Wireless Networks: A Review. 2016 , 1-1	40
671	Biosensor to Ensure Food Security and Environmental Control. 2016 , 74, 121-152	2
670	Enzyme-Based Biosensors in Food Industry via Surface Modifications. 2016 , 227-252	1
669	Two-Dimensional Materials Beyond Graphene: Emerging Opportunities for Biomedicine. 2016 , 06, 1642008	4
668	Fluorescence based fiber optic and planar waveguide biosensors. A review. 2016 , 943, 17-40	62
667	Recent advances in electrospun metal-oxide nanofiber based interfaces for electrochemical biosensing. 2016 , 6, 94595-94616	92
666	Cholinesterase-based biosensors. 2016 , 31, 180-193	22
665	Development of electrochemical genosensor for MYCN oncogene detection using rhodamine B as electroactive label. 2016 , 20, 2411-2418	10

664	Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. 2016 , 116, 9001-90	510
663	One-step electrochemical deposition of Polypyrrole-Chitosan-Iron oxide nanocomposite films for non-enzymatic glucose biosensor. 2016 , 183, 90-93	39
662	Flexible, Graphene-Coated Biocomposite for Highly Sensitive, Real-Time Molecular Detection. 2016 , 26, 8623-8630	98
661	Array of biosensors for discrimination of grapes according to grape variety, vintage and ripeness. 2016 , 947, 16-22	16
660	Facile synthesis of Ni(OH) ₂ nanoplates on nitrogen-doped carbon foam for nonenzymatic glucose sensors. 2016 , 8, 8227-8233	10
659	Label-free electrochemical immunosensor for the rapid and sensitive detection of the oxidative stress marker superoxide dismutase 1 at the point-of-care. 2016 , 236, 546-553	20
658	Effects of alkali and ammonium ions in the detection of poly(ethyleneglycol) by alpha-hemolysin nanopore sensor. 2016 , 6, 56647-56655	7
657	Dynamics of an electrochemical biosensor for the detection of toxic substances in water. 2016 ,	
656	An overview of detection techniques for monitoring dioxin-like compounds: latest technique trends and their applications. 2016 , 6, 55415-55429	18
655	Design of a Prussian Blue Analogue/Carbon Nanotube Thin-Film Nanocomposite: Tailored Precursor Preparation, Synthesis, Characterization, and Application. 2016 , 22, 6643-53	21
654	Synthesis and functionalization of graphene and application in electrochemical biosensing. 2016 , 5,	17
653	Green Synthesized Silver Nanoparticles: A Potential New Insecticide for Mosquito Control. 2016 , 99-153	5
652	Bioluminescence: Fundamentals and Applications in Biotechnology - Volume 3. 2016 ,	4
651	Electrochemical biosensors based on nanofibres for cardiac biomarker detection: A comprehensive review. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 513-523	11.8 69
650	Overview of nano-enabled screening of drug-facilitated crime: A promising tool in forensic investigation. 2016 , 80, 458-470	16
649	Bioluminescent bioreporter pad biosensor for monitoring water toxicity. 2016 , 149, 290-297	39
648	Graphene Functionalization for Biosensor Applications. 2016 , 85-141	24
647	Immunosensors in Clinical Laboratory Diagnostics. 2016 , 73, 65-108	24

646	Glucose Sensors. 2016 , 213-228		1
645	<i>Vibrio cholerae</i> detection: Traditional assays, novel diagnostic techniques and biosensors. 2016 , 79, 199-209		17
644	Prospects of optical biosensors for emerging label-free RNA analysis. 2016 , 80, 177-189		34
643	Recent Advances on Luminescent Enhancement-Based Porous Silicon Biosensors. 2016 , 33, 2314-36		38
642	Electrochemical biosensors based on nanomodified screen-printed electrodes: Recent applications in clinical analysis. 2016 , 79, 114-126		230
641	Carbon nanotubes and graphene nano field-effect transistor-based biosensors. 2016 , 79, 222-232		92
640	Immunosensor for the ultrasensitive and quantitative detection of bladder cancer in point of care testing. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 126-32	11.8	39
639	Biosensors and their applications - A review. 2016 , 6, 153-9		672
638	Methods for evaluating the pollution impact of urban wet weather discharges on biocenosis: A review. 2016 , 89, 330-54		50
637	Pharmacogenomic study using bio- and nanobioelectrochemistry: Drug-DNA interaction. 2016 , 61, 1002-17		50
636	Quantitative characterization of biofunctionalization layers by robust image analysis for biosensor applications. 2016 , 222, 980-986		2
635	Biosensors based on electrochemical lactate detection: A comprehensive review. 2016 , 5, 35-54		166
634	Selective determination of trace bisphenol a using molecularly imprinted silica nanoparticles containing quenchable fluorescent silver nanoclusters. 2016 , 183, 431-439		23
633	Interference of heavy metals on the photosynthetic response from a Cr(VI)-resistant <i>Dictyosphaerium chlorelloides</i> strain. 2016 , 25, 15-21		0
632	Development and Characterization of Carbon Based Electrodes from Pyrolyzed Paper for Biosensing Applications. 2016 , 765, 8-15		36
631	An experimental design approach to optimize an amperometric immunoassay on a screen printed electrode for <i>Clostridium tetani</i> antibody determination. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 457-63	11.8	10
630	Carbon nanomaterial-based electrochemical biosensors for label-free sensing of environmental pollutants. 2016 , 143, 85-98		136
629	Electrochemical Immunosensors for Food Analysis: A Review of Recent Developments. 2017 , 50, 1-32		61

628	Graphene-based screen-printed electrochemical (bio)sensors and their applications: Efforts and criticisms. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 107-122	11.8	129
627	Gold Nanoparticles Stabilized in β Cyclodextrin and Decorated with Laccase Applied in the Construction of a Biosensor for Rutin. 2017 , 29, 1031-1037		16
626	Rapid, Alternative Methods for Salmonella Detection in Food. 2017 , 203-210		
625	Ultrasensitive nanohybrid DNA sensor for detection of pathogen to prevent damage of heart valves. 2017 , 246, 300-304		8
624	Flow injection amperometric nitrite sensor based on silver microcubics-poly (acrylic acid)/poly (vinyl alcohol) modified screen printed carbon electrode. 2017 , 232, 357-369		43
623	Electrochemical immunosensor based on an azo compound for thyroid-stimulating hormone detection. 2017 , 133, 510-517		15
622	Advances in Environmental Biotechnology. 2017 ,		5
621	DNA chip based sensor for amperometric detection of infectious pathogens. 2017 , 103, 355-359		17
620	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors. 2017 , 175-208		
619	Nonlinear effects of diffusion limitations on the response and sensitivity of amperometric biosensors. 2017 , 240, 399-407		15
618	Advances in biosensor development for the screening of antibiotic residues in food products of animal origin - A comprehensive review. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 363-377	11.8	162
617	Light emission miracle in the sea and preeminent applications of bioluminescence in recent new biotechnology. 2017 , 172, 115-128		28
616	InVitro Development and Characterisation of a Superoxide Dismutase-Based Biosensor.. 2017 , 2, 4157-4164		5
615	Progress of the Electrochemiluminescence Biosensing Strategy for Clinical Diagnosis with Luminol as the Sensing Probe. 2017 , 4, 1587-1593		28
614	Biosensors: A Tool for Environmental Monitoring and Analysis. 2017 , 265-288		1
613	Yeast-Based Biosensors for Clinical Diagnostics and Food Control. 2017 , 391-412		6
612	Recent build outs in electroanalytical biosensors based on carbon-nanomaterial modified screen printed electrode platforms. 2017 , 9, 3895-3907		34
611	A non-enzymatic sensor for hydrogen peroxide based on the use of Fe_2O_3 nanoparticles deposited on the surface of NiO nanosheets. 2017 , 184, 3223-3229		27

610	Analysis of the evolution of the detection limits of electrochemical nucleic acid biosensors II. 2017 , 409, 4335-4352	7
609	Biotechnology of Yeasts and Filamentous Fungi. 2017 ,	4
608	Plasmonic nanoparticles and their analytical applications: A review. 2017 , 52, 774-820	53
607	Electrochemical Biosensors: Electrode Development, Materials, Design, and Fabrication. 2017 , 4, 92-105	53
606	Magnetic separate "turn-on" fluorescent biosensor for Bisphenol A based on magnetic oxidation graphene. 2017 , 168, 196-202	24
605	Application of Carbon-Based Nanomaterials as Biosensor. 2017 , 87-127	3
604	Laccases: A Blue Enzyme for Greener Alternative Technologies in the Detection and Treatment of Emerging Pollutants. 2017 , 45-65	3
603	Application of a Nanostructured Enzymatic Biosensor Based on Fullerene and Gold Nanoparticles to Polyphenol Detection. 2017 , 1572, 41-53	1
602	Hydrogel Based Biosensors for In Vitro Diagnostics of Biochemicals, Proteins, and Genes. 2017 , 6, 1601475	83
601	Mechanistic Challenges and Advantages of Biosensor Miniaturization into the Nanoscale. 2017 , 2, 458-467	70
600	Noble metal nanoparticles in biosensors: recent studies and applications. 2017 , 6, 301-329	141
599	Recent advances in biosensor development for the detection of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 15-23	11.8 248
598	Detection of ESAT-6 by a label free miniature immuno-electrochemical biosensor as a diagnostic tool for tuberculosis. 2017 , 74, 465-470	20
597	High Surface Area Electrodes Generated via Electrochemical Roughening Improve the Signaling of Electrochemical Aptamer-Based Biosensors. 2017 , 89, 12185-12191	52
596	Review New Twists in the Plot: Recent Advances in Electrochemical Genosensors for Disease Screening. 2017 , 164, B665-B673	13
595	BIOSENSORS AND NANOBIOSENSORS. 2017 , 391-462	4
594	Non-enzymatic Fructose Sensor Based on Co ₃ O ₄ Thin Film. 2017 , 29, 2855-2862	6
593	Biosensors based on Galactosidase enzyme: Recent advances and perspectives. 2017 , 535, 1-11	39

592	Keratin-Based Materials in Biotechnology. 2017 , 271-288		2
591	Sensors for disposable bioreactors. 2017 , 17, 940-952		28
590	Nanoscale Plasmonic V-Groove Waveguides for the Interrogation of Single Fluorescent Bacterial Cells. 2017 , 17, 5481-5488		9
589	Interface Engineering with Self-Assembled Monolayers in Biosensors. 2017 , 637-660		
588	Improvement of amperometric transducer selectivity using nanosized phenylenediamine films. 2017 , 12, 594		9
587	Electrochemical-Based Biosensor Technologies in Disease Detection and Diagnostics. 2017 , 95-123		
586	3.33 Conjugated Polymers for Biosensor Devices ?. 2017 , 716-754		7
585	An origami paper device for complete elimination of interferents in enzymatic electrochemical biosensors. 2017 , 82, 43-46		16
584	Fundamental Principles for Luminescence Sensing Measuring Devices Used for the Detection of Biological Warfare Agents. 2017 , 51-87		1
583	Biosensors and Related Bioanalytical Tools. 2017 , 77, 1-33		20
582	Facile fabrication of dual-ratiometric electrochemical sensors based on a bare electrode for dual-signal sensing of analytes in electrolyte solution. 2017 , 242, 71-78		31
581	Recent advances in DNA-based electrochemical biosensors for heavy metal ion detection: A review. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 125-139	11.8	182
580	In Vivo Biosensor Based on Prussian Blue for Brain Chemistry Monitoring : Methodological Review and Biological Applications. 2017 , 155-179		3
579	Cholesterol biosensing with a polydopamine-modified nanostructured platinum electrode prepared by oblique angle physical vacuum deposition. 2017 , 240, 37-45		30
578	Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 886-898	11.8	133
577	Design of Micro-interdigitated Electrodes and Detailed Impedance Data Analysis for Label-free Biomarker Quantification. 2017 , 29, 330-338		4
576	Enzyme-based Sensors. 2017 , 231-250		11
575	Bifacial heterojunction intrinsic thin layer solar cells as a bioFET supply. 2017 ,		

574	Mathematical Modeling of Bioassays. 2017 , 82, 1744-1766	10
573	(Invited) Electrochemical Characterization of Nanogap Interdigitated Electrode Arrays for Lab-on-a-Chip Applications. 2017 , 80, 1295-1308	2
572	Diffusion-controlled Mediated Electron Transfer-type Bioelectrocatalysis Using Microband Electrodes as Ultimate Amperometric Glucose Sensors. 2017 , 33, 845-851	23
571	Portable Bio/Chemosensoristic Devices: Innovative Systems for Environmental Health and Food Safety Diagnostics. 2017 , 5, 80	24
570	Development of Biosensors From Biopolymer Composites. 2017 , 353-383	37
569	Nanocomposite biosensors for point-of-care evaluation of food quality and safety. 2017 , 629-676	6
568	CMOS Electrochemical Instrumentation for Biosensor Microsystems: A Review. 2016 , 17,	90
567	Point-of-Care-Testing in Acute Stroke Management: An Unmet Need Ripe for Technological Harvest. 2017 , 7,	26
566	On the Accuracy of Ethanol and Acetaldehyde Monitoring, a Key Tile in. 2017 , 11, 97	3
565	Fluorescence-Free Biosensor Methods in Detection of Food Pathogens with a Special Focus on <i>Listeria monocytogenes</i> . 2017 , 7,	17
564	Nanomaterials for Electrochemical Immunosensing. 2017 , 17,	28
563	Construction and Potential Applications of Biosensors for Proteins in Clinical Laboratory Diagnosis. 2017 , 17,	14
562	Fabrication of highly sensitive MnO ₂ /F-MWCNT/Ta hybrid nanocomposite sensor with different MnO ₂ overlayer thickness for H ₂ O ₂ detection. 2018 , 44, 8064-8071	7
561	Electrochemical Characterization of Nanogap Interdigitated Electrode Arrays for Lab-on-a-Chip Applications. 2018 , 165, B127-B134	8
560	Review Electrochemical Detection of Uric Acid, Dopamine and Ascorbic Acid. 2018 , 165, B258-B267	45
559	Electrochemical Biosensor Composed of Silver Ion-Mediated dsDNA on Au-Encapsulated Bi Se Nanoparticles for the Detection of H ₂ O Released from Breast Cancer Cells. 2018 , 14, e1703970	48
558	Use of Cyclodextrin as enhancer of ascorbic acid rejection in permselective films for amperometric biosensor applications. 2018 , 186, 53-59	4
557	A comprehensive review on nano-molybdenum disulfide/DNA interfaces as emerging biosensing platforms. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 244-258	11.8 23

556 miRNA Analysis. **2018**, 67-92

555 Smart Cell Culture Systems: Integration of Sensors and Actuators into Microphysiological Systems. **2018**, 13, 1767-1784 40

554 Non-enzymatic sensing of kidney dysfunction biomarker using pectin [MWCNT nanocomposite. **2018**, 449, 736-744 9

553 Study of electropolymerized PEDOT:PSS transducers for application as electrochemical sensors in aqueous media. **2018**, 17, 18-24 26

552 Alkaline phosphatase detection using electrochemical impedance of anti-alkaline phosphatase antibody (Ab354) functionalized silicon-nanowire-forest in phosphate buffer solution. **2018**, 259, 809-815 12

551 Quantitative Comparison of Enzyme Immobilization Strategies for Glucose Biosensing in Real-Time Using Fast-Scan Cyclic Voltammetry Coupled with Carbon-Fiber Microelectrodes. **2018**, 19, 1197-1204 13

550 Biosensor-Based Techniques. **2018**, 361-384 1

549 Noble metal nanostructures in optical biosensors: Basics, and their introduction to anti-doping detection. **2018**, 100, 116-135 34

548 Recent advances on aptamer-based biosensors to detection of platelet-derived growth factor. *Biosensors and Bioelectronics*, **2018**, 113, 58-71 11.8 58

547 Electrochemical Biosensing in Cancer Diagnostics and Follow-up. **2018**, 30, 1584-1603 38

546 Electrochemical Biosensors for Detecting Microbial Toxins by Graphene-Based Nanocomposites. **2018**, 2, 20-25 7

545 Structural basis of pesticide detection by enzymatic biosensing: a molecular docking and MD simulation study. **2018**, 36, 1402-1416 13

544 Effect of polyethylene glycol additives on structure, stability, and biocatalytic activity of ormosil sol-gel encapsulated yeast cells. **2018**, 88, 1-5 5

543 Electrochemical carbon based nanosensors: A promising tool in pharmaceutical and biomedical analysis. **2018**, 147, 439-457 80

542 Evaluation of graphene oxide and reduced graphene oxide in the immobilization of laccase enzyme and its application in the determination of dopamine. **2018**, 22, 141-148 19

541 CMOS Circuits for Biological Sensing and Processing. **2018**, 0

540 Immunosensor for electro detection of the C-reactive protein in serum. **2018**, 22, 1365-1372 12

539 Implantable Microsystems for Personalised Anticancer Therapy. **2018**, 259-286 8

538	Influence of diabetes on the foreign body response to nitric oxide-releasing implants. 2018 , 157, 76-85		20
537	Advances in Nanoporous Anodic Alumina-Based Biosensors to Detect Biomarkers of Clinical Significance: A Review. 2018 , 7, 1700904		46
536	A self-powered biosensing device with an integrated hybrid biofuel cell for intermittent monitoring of analytes. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 383-388	11.8	23
535	Recent trends in rapid detection of influenza infections by bio and nanobiosensor. 2018 , 98, 201-215		43
534	Graphene metal nanocomposites [Recent progress in electrochemical biosensing applications. 2018 , 59, 425-439		39
533	Fluorescent molecularly imprinted membranes as biosensor for the detection of target protein. 2018 , 254, 1078-1086		48
532	An ultrasensitive micropillar-based quartz crystal microbalance device for real-time measurement of protein immobilization and protein-protein interaction. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 325-331	11.8	20
531	Electrochemical biosensors for Salmonella: State of the art and challenges in food safety assessment. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 667-682	11.8	89
530	Electrochemical Immunosensors for Disease Detection and Diagnosis. 2018 , 25, 4119-4137		13
529	A Novel Disposable Electrochemical Sensor Packaging with Application for the Detection of Uric Acid. 2018 ,		
528	Fabrication of Electrochemical-Based Bioelectronic Device and Biosensor Composed of Biomaterial-Nanomaterial Hybrid. 2018 , 1064, 263-296		7
527	New Perspectives on Iron Uptake in Eukaryotes. 2018 , 5, 97		12
526	Diagnosis of hepatitis via nanomaterial-based electrochemical, optical or piezoelectrical biosensors: a review on recent advancements. 2018 , 185, 568		20
525	Nucleic Acid-Based Sensors. 2018 , 392-402		1
524	Properties and Applications of Love Surface Waves in Seismology and Biosensors. 2018 ,		1
523	Biosensors [Microelectrode Design and Operation. 2018 , 72-80		
522	Charge-accumulative Potentiometric Measurements for Ammonia Detection Using an Enzymatic Cascade Reaction on a Prussian Blue Electrode. 2018 , 47, 1412-1415		6
521	Cellulose-based hydrogel materials: chemistry, properties and their prospective applications. 2018 , 7, 153-174		184

520	Use of hafnium(IV) oxide in biosensors. 2018 , 39, 471-484	1
519	Disposable Gate AlGa _N /Ga _N High-Electron- Mobility Sensor for Trace-Level Biological Detection. 2018 , 1-1	7
518	Phenol based redox mediators in electroanalysis. 2018 , 827, 230-252	9
517	Future trends in the market for electrochemical biosensing. 2018 , 10, 107-111	42
516	Laccase Biosensor: Green Technique for Quantification of Phenols in Wastewater. 2018 , 34, 631-637	8
515	Enzymatic Sol-Gel Biosensors. 2018 , 3705-3743	
514	Polymeric gels for biosensing applications. 2018 , 487-503	3
513	Multiplexed immunochemical techniques for the detection of pollutants in aquatic environments. 2018 , 106, 1-10	14
512	Bioactive Materials Based on Biopolymers Grafted on Conducting Polymers: Recent Trends in Biomedical Field and Sensing. 2018 , 441-467	2
511	Endogenous and food-derived polyamines: determination by electrochemical sensing. 2018 , 50, 1187-1203	16
510	Aptamer-Based Biosensors to Detect Aquatic Phycotoxins and Cyanotoxins. 2018 , 18,	44
509	Implantable biosensors and their contribution to the future of precision medicine. 2018 , 239, 21-29	56
508	S-Layer Protein-Based Biosensors. 2018 , 8,	27
507	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. 2018 , 106, 62-83	78
506	Label-Free Aptasensor for Lysozyme Detection Using Electrochemical Impedance Spectroscopy. 2018 , 18,	31
505	Application of a Portable Multi-Analyte Biosensor for Organic Acid Determination in Silage. 2018 , 18,	10
504	Nanobiodevices for electrochemical biosensing of pharmaceuticals. 2018 , 291-330	3
503	Interkingdom microbial consortia mechanisms to guide biotechnological applications. 2018 , 11, 833-847	30

502	Functional Nucleic Acid Based Biosensors for MicroRNA Detection. 2018 , 325-340	
501	Editorial Overview: Exploring new ideas and challenges in electrochemical sensing: Towards implantable or wearable devices and nanorobots. 2018 , 10, A4-A7	3
500	Evaluating Nonlinear Impedance Excitation as Detection Method for Biosensors. 2018 , 17, 1069-1076	
499	Futuristic biosensors for cardiac health care: an artificial intelligence approach. 2018 , 8, 358	41
498	Lipases and Phospholipases. 2018 ,	6
497	Potential use of electronic noses, electronic tongues and biosensors as multisensor systems for spoilage examination in foods. 2018 , 80, 71-92	79
496	A Review of Multimode Interference in Tapered Optical Fibers and Related Applications. 2018 , 18,	19
495	An electrochemical dopamine aptasensor using the modified Au electrode with spindle-shaped gold nanostructure. 2018 , 143, 243-251	26
494	Lipase, Phospholipase, and Esterase Biosensors (Review). 2018 , 1835, 391-425	14
493	Lectin-based biosensors as analytical tools for clinical oncology. 2018 , 436, 63-74	12
492	Nitric Oxide Detection Using Electrochemical Third-generation Biosensors [Based on Heme Proteins and Porphyrins]. 2018 , 30, 2485-2503	8
491	Electrochemical Biosensor Based on TiO ₂ Nanomaterials for Cancer Diagnostics. 2018 , 63-105	18
490	Electrochemical Enzyme Biosensors Revisited: Old Solutions for New Problems. 2019 , 49, 44-66	41
489	Sources and Properties of BPA. 2019 , 3-28	2
488	Microfluidics and hydrogel: A powerful combination. 2019 , 145, 104314	36
487	Two plant-hosted whole-cell bacterial biosensors for detection of bioavailable Cr(VI). 2019 , 35, 129	2
486	Electrochemical detection techniques in biosensor applications. 2019 , 11-43	16
485	Receptor-based electrochemical biosensors for the detection of contaminants in food products. 2019 , 307-365	7

484	Direct electrochemistry of lactate dehydrogenase in aqueous solution system containing l(+)-lactic acid, Ethicotinamide adenine dinucleotide, and its reduced form. 2019 , 80, 508-515	2
483	A brief review on the strategy of developing SPR-based biosensors for application to the diagnosis of neglected tropical diseases. 2019 , 205, 120122	23
482	Application of Nanotechnology in Diagnosis, Drug Dissolution, Drug Discovery, and Drug Carrier. 2019 , 449-475	2
481	Fabrication and Charge Deduction Based Sensitivity Analysis of GaN MOS-HEMT Device for Glucose, MIG, C-erbB-2, KIM-1, and PSA Detection. 2019 , 18, 747-755	14
480	Biosensors for Rapid Detection of Breast Cancer Biomarkers. 2019 , 71-103	7
479	Pervasive Healthcare System Based on Environmental Monitoring. 2019 , 159-178	2
478	Optical Approaches to Visualization of Cellular Activity. 2019 , 1-15	
477	Wearable flexible sweat sensors for healthcare monitoring: a review. 2019 , 16, 20190217	144
476	Graphene-Based Biosensors: Design, Construction, and Validation. Toward a Nanotechnological Tool for the Rapid in-Field Detection of Food Toxicants and Environmental Pollutants. 2019 , 99-116	1
475	A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials. 2019 , 186, 773	65
474	Optical Biosensors for Therapeutic Drug Monitoring. 2019 , 9,	39
473	Fish and Fishery Products Analysis. 2019 ,	2
472	Synthesis of Carbon Quantum Dots with Special Reference to Biomass as a Source - A Review. 2019 , 25, 1455-1476	21
471	Electrochemical Immunosensors. 2019 , 343-369	3
470	Cesium tin halide perovskite quantum dots as an organic photoluminescence probe for lead ion. 2019 , 216, 116711	12
469	Nanotechnology and nanomaterial-based no-wash electrochemical biosensors: from design to application. 2019 , 11, 19105-19118	39
468	Convenient non-invasive electrochemical techniques to monitor microbial processes: current state and perspectives. 2019 , 103, 8327-8338	3
467	Biosensors for epigenetic biomarkers detection: A review. <i>Biosensors and Bioelectronics</i> , 2019 , 144, 1116958	16

466	2D Materials in Development of Electrochemical Point-of-Care Cancer Screening Devices. 2019 , 10,		17
465	Field-Effect Transistor Biosensors for Biomedical Applications: Recent Advances and Future Prospects. 2019 , 19,		78
464	A Bottom-Up Approach for Developing Aptasensors for Abused Drugs: Biosensors in Forensics. 2019 , 9,		10
463	Label free, electrochemical detection of atrazine using electrospun Mn ₂ O ₃ nanofibers: Towards ultrasensitive small molecule detection. 2019 , 285, 317-325		35
462	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 276-292	11.8	116
461	The end user sensor tree: An end-user friendly sensor database. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 245-253	11.8	21
460	Biosensors for Detection of Human Placental Pathologies: A Review of Emerging Technologies and Current Trends. 2019 , 213, 23-49		14
459	Functionalized Advanced Hybrid Materials for Biosensing Applications. 2019 , 171-207		7
458	An overview of DNA/RNA-based monitoring tools and biosensors: Benefits and applications in the environmental toxicology. 2019 , 97-124		1
457	Biosensor technologies based on nanomaterials. 2019 , 181-242		7
456	Recent Advances in Biosensors for Nucleic Acid and Exosome Detection. 2019 , 55, 86-98		34
455	Progress in the Development of Intrinsically Conducting Polymer Composites as Biosensors. 2019 , 220, 1800561		62
454	Handheld Enzymatic Luminescent Biosensor for Rapid Detection of Heavy Metals in Water Samples. 2019 , 7, 16		16
453	Rapid determination of kappa-carrageenan using a biosensor from immobilized <i>Pseudomonas carrageenovora</i> cells. 2019 , 14, e0214580		2
452	Rapid methods and sensors for milk quality monitoring and spoilage detection. <i>Biosensors and Bioelectronics</i> , 2019 , 140, 111272	11.8	58
451	Towards a dual in-line electrochemical biosensor for the determination of glucose and hydrogen peroxide. 2019 , 128, 56-65		14
450	Advanced biosensors for glucose and insulin. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111201	11.8	79
449	BSA films as sensitive coatings for gas sensors: adsorption properties, application perspectives. 2019 , 134, 1		

448	Single-Cell Resolution and Quantitation of Targeted Glucocorticoid Delivery in the Thymus. 2019 , 26, 3629-3642.e4	11
447	Conjugated Polymers for Assessing and Controlling Biological Functions. 2019 , 31, e1806712	98
446	Solid-State rGO-PEDOT:PSS Transducing Material for Cost-Effective Enzymatic Sensing. 2019 , 9,	26
445	Enzyme-modified electrodes for biosensors and biofuel cells. 2019 , 6, 1336-1358	59
444	The Effect of Pressure on Magnetic Properties of Prussian Blue Analogues. 2019 , 9, 112	6
443	Organic Matter BOD Biosensor Monitoring. 2019 , 1-17	
442	DNA conformational polymorphism for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 237-249	11.8 21
441	Enzyme-Based Biosensors and Their Applications. 2019 , 201-223	8
440	The Recent Advances in Raman Microscopy and Imaging Techniques for Biosensors. 2019 , 9,	12
439	Sensitivity Enhancement of Point-of-Care for Cardiac Markers Detection using Micro-Impedimetric Immunosensor Arrays. 2019 , 2019, 1119-1122	
438	Microbial Biosensors for the Determination of Pesticides. 2019 , 74, 1159-1173	7
437	Biosensors for Determination of Heavy Metals in Waters. 2019 ,	18
436	Nanomaterials towards Biosensing of Alzheimer's Disease Biomarkers. 2019 , 9,	31
435	ZnO Nanowire Field Effect Transistor for Biosensing: A Review. 2019 , 60, 94-112	8
434	Improvement of fiber optic based localized surface plasmon resonance sensor by optical fiber surface etching and Au capping. 2019 , 7,	6
433	Dendrimers as Soft Nanomaterials for Electrochemical Immunosensors. 2019 , 9,	21
432	Recent Advances on Diatom-Based Biosensors. 2019 , 19,	13
431	Biosensors: An Enzyme-Based Biophysical Technique for the Detection of Foodborne Pathogens. 2019 , 723-738	4

430	Multiplexed functionalization of nanoelectromechanical systems with photopatterned molecularly imprinted polymers. 2019 , 29, 025013		3
429	A 3,5-DistyrylBODIPY Dye Functionalized with Boronic Acid Groups for Direct Electrochemical Glucose Sensing. 2019 , 31, 137-145		9
428	Carbon-dot-based ratiometric fluorescence glucose biosensor. 2019 , 282, 719-729		64
427	Carbon Nanomaterial-Based Electrochemical Biosensors for Foodborne Bacterial Detection. 2019 , 49, 510-533		42
426	Organic molecular passivation of phosphorene: An aptamer-based biosensing platform. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 30-35	11.8	24
425	Localized surface plasmon resonance biosensor using nanopatterned gold particles on the surface of an optical fiber. 2019 , 280, 183-191		38
424	Improving the sensitivity of electrochemical sensors through a complementary luminescent mode: A new spectroelectrochemical approach. 2019 , 284, 663-674		10
423	Biosensors for measuring matrix metalloproteinases: An emerging research field. 2019 , 110, 35-50		18
422	MicroRNA sensors based on gold nanoparticles. 2019 , 411, 1807-1824		31
421	GrapheneCarbon Nanotubes Modified Electrochemical Sensors. 2019 , 187-205		6
420	Biosensing Applications of Microbial Fuel Cell: Approach Toward Miniaturization. 2019 , 977-997		13
419	Towards Point-of-Care Insulin Detection. 2019 , 4, 3-19		21
418	Sensor Systems for Breathprinting: A Review of the Current Technologies for Exhaled Breath Analysis Based on a Sensor Array With the Aim of Integrating Them in a Standard and Shared Procedure. 2019 , 49-79		3
417	DNA hybridisation sensors for product authentication and tracing: State of the art and challenges. 2019 , 27, 16-34		0
416	Controlled drug release from a spheroidal matrix. 2019 , 518, 30-37		2
415	Paper-based immunosensors: Current trends in the types and applied detection techniques. 2019 , 111, 100-117		57
414	Functional Nanomaterials and Nanostructures Enhancing Electrochemical Biosensors and Lab-on-a-Chip Performances: Recent Progress, Applications, and Future Perspective. 2019 , 119, 120-194		271
413	Development of electrochemical biosensors with various types of zeolites. 2019 , 9, 737-747		8

412	Review of Electrochemical Biosensors for Hormone Detection. 2020 , 173-177	2
411	Detection of a secreted protein biomarker for citrus Huanglongbing using a single-walled carbon nanotubes-based chemiresistive biosensor. <i>Biosensors and Bioelectronics</i> , 2020 , 147, 111766	11.8 17
410	Highly selective and stable glucose biosensor based on incorporation of platinum nanoparticles into polyaniline-montmorillonite hybrid composites. 2020 , 152, 104266	28
409	Current Innovations of Metal Hexacyanoferrates-Based Nanocomposites toward Electrochemical Sensing: Materials Selection and Synthesis Methods. 2020 , 50, 393-404	4
408	Electrochemical techniques for environmental analysis. 2020 , 199-222	7
407	Analysis of environmental samples. 2020 , 253-276	
406	Biosensors on the road to early diagnostic and surveillance of Alzheimer's disease. 2020 , 211, 120700	19
405	Organs-on-a-chip engineering. 2020 , 47-130	2
404	A new aptamer/black phosphorous interdigital electrode for malachite green detection. 2020 , 1099, 39-45	11
403	Graphene Quantum Dot-Based Electrochemical Immunosensors for Biomedical Applications. 2019 , 13,	39
402	Assaying with PCF-based SPR refractive index biosensors: From recent configurations to outstanding detection limits. 2020 , 54, 102083	15
401	Screen-Printed Electrode-Based Sensors for Food Spoilage Control: Bacteria and Biogenic Amines Detection. 2020 , 10,	18
400	Biosensors Based on Mechanical and Electrical Detection Techniques. 2020 , 20,	20
399	Personalized Medicine for Antibiotics: The Role of Nanobiosensors in Therapeutic Drug Monitoring. 2020 , 10,	8
398	Biosensor nanoengineering: Design, operation, and implementation for biomolecular analysis. 2020 , 1, 100040	99
397	Advances in Analysis of Milk Proteases Activity at Surfaces and in a Volume by Acoustic Methods. 2020 , 20,	7
396	Graphene based sensors. 2020 , 175-199	15
395	State-of-the-Art on Functional Titanium Dioxide-Integrated Nano-Hybrids in Electrical Biosensors. 2020 , 1-12	9

394	Comparison of measurement protocol for biosensors using fiber optic localized surface plasmon resonance sensor. 2020 , 59, 102324	3
393	Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. 2020 , 120, 12903-12993	86
392	Sweat detection theory and fluid driven methods: A review. 2020 , 3, 126-140	14
391	Endophytic fungi-based biosensors for environmental contaminants-A perspective. 2020 , 134, 401-406	5
390	Glucose oxidase-based biosensor for glucose detection from biological fluids. 2020 , 40, 497-511	16
389	Detection of dairy fouling by cyclic voltammetry and square wave voltammetry. 2020 , 8, 3070-3080	1
388	Advances in Electrochemical Impedance Spectroscopy Detection of Endocrine Disruptors. 2020 , 20,	22
387	Impedimetric Biosensor Based on a Hechtia argentea Lectin for the Detection of Salmonella spp.. 2020 , 8, 115	1
386	Introduction to commercial biosensors. 2020 , 1-28	3
385	Noninvasive biosensors for diagnostic biomarkers. 2020 , 167-181	1
384	Aptamers in Biotechnology. 2020 ,	1
383	Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods. 2021 , 420, 127575	38
382	A novel disposable electrochemical DNA biosensor for the rapid detection of Bacillus thuringiensis. 2020 , 159, 105434	6
381	Critical role of biosensing on the efficient monitoring of cancer proteins/biomarkers using label-free aptamer based bioassay. 2020 , 132, 110849	13
380	Application and development of aptamer in cancer: from clinical diagnosis to cancer therapy. 2020 , 11, 6902-6915	16
379	Functional graphene-based nanodevices: emerging diagnostic tool. 2020 , 85-112	6
378	B-Type Natriuretic Peptide as a Significant Brain Biomarker for Stroke Triaging Using a Bedside Point-of-Care Monitoring Biosensor. 2020 , 10,	5
377	Aptasensors for Point-of-Care Detection of Small Molecules. 2020 , 10,	13

376	Recent Advances in Portable Biosensors for Biomarker Detection in Body Fluids. 2020 , 10,	15
375	Co(III)-NTA Mediated Antigen Immobilization on a Fiber Optic-SPR Biosensor for Detection of Autoantibodies in Autoimmune Diseases: Application in Immune-Mediated Thrombotic Thrombocytopenic Purpura. 2020 , 92, 13880-13887	10
374	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. 2020 , 3, 32	7
373	Nanoelectrode Arrays Fabricated by Thermal Nanoimprint Lithography for Biosensing Application. 2020 , 10,	3
372	Aptamer-based electrochemical biosensing strategy toward human non-small cell lung cancer using polyacrylonitrile/polypyrrole nanofibers. 2020 , 412, 7851-7860	12
371	. 2020 ,	1
370	Polymeric immunosensors for tumor detection. 2020 , 6, 032001	4
369	PNA-Based MicroRNA Detection Methodologies. 2020 , 25,	16
368	MoS ₂ nanostructured materials for electrode modification in the development of a laccase based amperometric biosensor for non-invasive dopamine detection. 2020 , 155, 104792	15
367	Biosensors and Nanobiosensors in Environmental Applications. 2020 , 515-591	10
366	Smart biosensors for an efficient point of care (PoC) health management. 2020 , 65-85	11
365	Electrochemical Biosensors Based on S-Layer Proteins. 2020 , 20,	9
364	DNA-based nanobiosensors for monitoring of water quality. 2020 , 226, 113485	6
363	Flexible Screen Printed Aptasensor for Rapid Detection of Furanol: A Comparison of CNTs and AgNPs Effect on Aptasensor Performance. 2020 , 10,	9
362	. 2020 ,	1
361	Microfluidic devices: biosensors. 2020 , 287-351	2
360	Nanobiosensors for food analysis. 2020 , 415-457	1
359	Biosensors for D-Amino Acids: Detection Methods and Applications. 2020 , 21,	12

358	Biological Biosensors for Monitoring and Diagnosis. 2020 , 317-335		31
357	Lab-on-a-Chip Systems for Aptamer-Based Biosensing. 2020 , 11,		44
356	Redox-Based Electrochemical Affinity Sensor for Detection of Aqueous Perchnetate Anion. 2020 , 5, 674-685		5
355	AuNPs/PpPD/PEDOT:PSS-Fc modified screen-printed carbon electrode label-free immunosensor for sensitive and selective determination of human serum albumin. 2020 , 155, 104709		5
354	A Facile Fabrication of a Potentiometric Arrayed Glucose Biosensor Based on Nafion-GOx/GO/AZO. 2020 , 20,		9
353	About the amplification factors in organic bioelectronic sensors. 2020 , 7, 999-1013		56
352	Guided mode resonance sensor for the parallel detection of multiple protein biomarkers in human urine with high sensitivity. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112047	11.8	14
351	Frontiers in electrochemical enzyme based biosensors for food and drug analysis. 2020 , 124, 115809		41
350	Impedimetric Aptamer-Based Biosensors: Principles and Techniques. 2020 , 174, 17-41		3
349	Bacterial cellulose-based electrochemical sensing platform: A smart material for miniaturized biosensors. 2020 , 349, 136341		37
348	Electrochemical biosensors for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020 , 159, 112214	11.8	239
347	Fabrication of porous silicon based label-free optical biosensor for heat shock protein 70 detection. 2020 , 115, 105126		14
346	Bio-electrochemical response to sense implant degradation. 2020 , 3, e10088		2
345	Electrochemical sensing by a covalently bonded biotin-avidin couple on a silver nanoparticle modified gold electrode. 2021 , 49, 106-124		3
344	Molecular imprinted membrane biosensor for pesticide detection: Perspectives and challenges. 2021 , 32, 17-30		7
343	Vegetable waste scaffolds for 3D-stem cell proliferating systems and low cost biosensors. 2021 , 223, 121671		8
342	Electroactive material-based biosensors for detection and drug delivery. 2021 , 170, 396-424		14
341	Recent advances on engineered enzyme-conjugated biosensing modalities and devices for halogenated compounds. 2021 , 134, 116145		5

340	Electrochemical approaches towards sensing viruses: A mini review. 2021 , 4, e10148	3
339	Towards applications of bioentities@MOFs in biomedicine. 2021 , 429, 213651	52
338	Portable Automatic Microring Resonator System Using a Subwavelength Grating Metamaterial Waveguide for High-Sensitivity Real-Time Optical-Biosensing Applications. 2021 , 68, 1894-1902	3
337	Developments in biosensors for CoV detection and future trends. <i>Biosensors and Bioelectronics</i> , 2020 , 173, 112777	11.8 41
336	Conductive Polymer Nanobiosensors. 2021 , 85-118	1
335	Evaluation of ITO/TiO ₂ /Co ₃ O ₄ as a non-enzymatic heterojunction electrode to glucose electrooxidation. 2021 , 27, 1597-1609	1
334	Nanomaterials and Cross-Cutting Technologies for Fostering Smart Electrochemical Biosensors in the Detection of Chemical Warfare Agents. 2021 , 11, 720	4
333	Amalgamation of biosensors and nanotechnology in disease diagnosis: Mini-review. 2021 , 2, 100089	11
332	Electrochemical Sensors Based on Conducting Polymers for the Aqueous Detection of Biologically Relevant Molecules. 2021 , 11,	20
331	COVID-19 Diagnosis: A Comprehensive Review of Current Testing Platforms; Part B. 2021 , 205-227	
330	Biosensors for Detection of Biochemical Markers Relevant to Osteoarthritis. 2021 , 11,	4
329	Monitoring of BNP cardiac biomarker with major emphasis on biosensing methods: A review. 2021 , 2, 100103	1
328	Smart materials for electrochemical flexible nanosensors: Advances and applications. 2021 , 347-371	2
327	A comprehensive review on current COVID-19 detection methods: From lab care to point of care diagnosis. 2021 , 2, 100119	17
326	Detection of Antibiotic Residues in Food Using Biosensors. 2021 , 33, 1699-1708	1
325	Triple Negative Breast Cancer: A Review of Present and Future Diagnostic Modalities. 2021 , 57,	15
324	Electrochemical detection. 2021 , 147-187	
323	Quantum dot-based electrochemical molecularly imprinted polymer sensors: potentials and challenges. 2021 , 121-153	

322	Silver nanoparticle embedded polymerzirconium-based metalorganic framework (polyUiO-66) for electrochemical biosensors of respiratory viruses.	5
321	Realizing textured electrode for electrochemical biosensor using homemade CNC desktop. 2021 ,	1
320	Clinically oriented Alzheimer's biosensors: expanding the horizons towards point-of-care diagnostics and beyond.. 2021 , 11, 20403-20422	0
319	A Review on Biosensors and Recent Development of Nanostructured Materials-Enabled Biosensors. 2021 , 21,	177
318	Optoelectronics and Optical Bio-Sensors.	0
317	Molecular imprinting technology for sensing foodborne pathogenic bacteria. 2021 , 413, 4581-4598	9
316	Ethanol Biofuel Cells: Hybrid Catalytic Cascades as a Tool for Biosensor Devices. 2021 , 11,	3
315	Cultivating Multidisciplinarity: Manufacturing and Sensing Challenges in Cultured Meat Production. 2021 , 10,	10
314	Current Trends on Surface Acoustic Wave Biosensors. 2021 , 6, 2001018	6
313	Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. 2021 , 2, 149-184	21
312	Recent advances in nanomaterials based biosensors for point of care (PoC) diagnosis of Covid-19 - A minireview. 2021 , 137, 116205	32
311	Lithographic Processes for the Scalable Fabrication of Micro- and Nanostructures for Biochips and Biosensors. 2021 , 6, 2002-2024	11
310	Single Wall Carbon Nanotube Gas Sensors. 74-84	
309	Enzyme-based amperometric biosensors for malic acid - A review. 2021 , 1156, 338218	9
308	Paper and Other Fibrous Materials-A Complete Platform for Biosensing Applications. 2021 , 11,	2
307	Silk Fibroin As an Immobilization Matrix for Sensing Applications. 2021 , 7, 2015-2042	10
306	Aptamers in biomedicine: Selection strategies and recent advances. 2021 , 376, 137994	23
305	Electrochemical aptasensor based on multidirectional hybridization chain reaction for detection of tumorous exosomes. 2021 , 332, 129471	12

304	Reagentless Affimer- and antibody-based impedimetric biosensors for CEA-detection using a novel non-conducting polymer. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113013	11.8	8
303	Electrochemical impedimetric biosensors, featuring the use of Room Temperature Ionic Liquids (RTILs): Special focus on non-faradaic sensing. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112940	11.8	17
302	Metal-Oxide Based Nanomaterials: Synthesis, Characterization and Their Applications in Electrical and Electrochemical Sensors. 2021 , 21,		18
301	An Overview on Recent Progress of Metal Oxide/Graphene/CNTs-Based Nanobiosensors. 2021 , 16, 65		15
300	Microcapsule-based biosensor containing catechol for the reagent-free inhibitive detection of benzoic acid by tyrosinase. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113137	11.8	4
299	Magnetic nanoparticles in developing electrochemical sensors for pharmaceutical and biomedical applications. 2021 , 226, 122108		19
298	Biosensing platforms based on silicon nanostructures: A critical review. 2021 , 1160, 338393		11
297	Aptasensors for lysozyme detection: Recent advances. 2021 , 226, 122169		12
296	Determination of VEGF using impedimetric aptasensor based on cyclohexanehexone-melem covalent-organic framework. 2021 , 188, 211		1
295	Dual Transduction of H ₂ O ₂ Detection Using ZnO/Laser-Induced Graphene Composites. 2021 , 9, 102		4
294	Ultrasensitive nanoplasmonic biosensor based on interferometric excitation of multipolar plasmonic modes. 2021 , 29, 17365-17374		1
293	Portable Sensing Devices for Detection of COVID-19: A Review. 2021 , 21, 10219-10230		13
292	Biosensing strategies for the electrochemical detection of viruses and viral diseases - A review. 2021 , 1159, 338384		13
291	What Can Electrochemical Methods Offer in Determining DNA-Drug Interactions?. 2021 , 26,		5
290	Biosensors: Design, Development and Applications.		6
289	The perspectives of biomarker-based electrochemical immunosensors, artificial intelligence and the Internet of Medical Things toward COVID-19 diagnosis and management. 2021 , 20, 100443		13
288	Electrochemical detection of riboflavin using tin-chitosan modified pencil graphite electrode. 2021 , 891, 115235		5
287	In-Line Analysis of Organ-on-Chip Systems with Sensors: Integration, Fabrication, Challenges, and Potential. 2021 , 7, 2926-2948		18

286	Electrochemical biosensors for the quantification of streptomycin in food systems: an overview. 1-16	
285	A Comprehensive Study on Aptasensors For Cancer Diagnosis. 2021 , 22, 1069-1084	3
284	Addressing the Theoretical and Experimental Aspects of Low-Dimensional-Materials-Based FET Immunosensors: A Review. 2021 , 9, 162	3
283	Biosensors Coupled with Signal Amplification Technology for the Detection of Pathogenic Bacteria: A Review. 2021 , 11,	8
282	Pyruvate Oxidase Biosensors Based on Glassy Carbon Electrodes Modified with Carbon Nanotubes and Poly(Neutral Red) Synthesized in Ethaline Deep Eutectic Solvent.	0
281	Review-Enzymatic and Non-Enzymatic Electrochemical Sensor for Lactate Detection in Human Biofluids. 2021 , 168, 067502	4
280	Microfluidics-Based Plasmonic Biosensing System Based on Patterned Plasmonic Nanostructure Arrays. 2021 , 12,	13
279	Principles of odor coding in vertebrates and artificial chemosensory systems. 2022 , 102, 61-154	5
278	Electrochemical Nanobiosensors as Point-of-care Testing Solution to Cytokines Measurement Limitations.	2
277	Application of peptide nucleic acid in electrochemical nucleic acid biosensors. 2021 , e23464	0
276	ZnO Nanowire Field-Effect Transistor for Biosensing: A Review.	
275	Advances in Biosensors and Diagnostic Technologies Using Nanostructures and Nanomaterials. 2021 , 31, 2104126	15
274	Metal-organic frameworks (MOFs) based electrochemical biosensors for early cancer diagnosis in vitro. 2021 , 439, 213948	46
273	Fabrication of a Sensitive and Stable NiO Uric Acid Biosensor Using Ag Nanowires and Reduced Graphene Oxide. 2021 , 14, 4696	0
272	Electrochemical sensors and biosensors for the determination of diclofenac in pharmaceutical, biological and water samples. 2021 , 3, 100026	8
271	Implantable application of polymer-based biosensors.	6
270	Doping and Decorating 2D Materials for Biosensing: Benefits and Drawbacks. 2021 , 31, 2102555	5
269	Changes of Viscoelastic Properties of Aptamer-Based Sensing Layers Following Interaction with. 2021 , 21,	2

268	L-Asparaginase-Based Biosensors. 2021 , 1, 848-858	1
267	Label-free electrochemical-immunoassay of cancer biomarkers: Recent progress and challenges in the efficient diagnosis of cancer employing electroanalysis and based on point of care (POC). 2021 , 168, 106424	1
266	Electrochemical catechol biosensor based on Cyclodextrin capped gold nanoparticles and inhibition effect of ibuprofen. 2021 , 108, 80-89	2
265	Recent Progresses on Biosensors for Escherichia coli Detection. 1	1
264	Biosensors for Detection and Monitoring of Joint Infections. 2021 , 9, 256	0
263	Status of antibiotic residues and detection techniques used in Chinese milk: A systematic review based on cross-sectional surveillance data. 2021 , 147, 110450	2
262	Poly(2-Hydroxyethyl methacrylate-co-N,N-dimethylacrylamide)-Coated Quartz Crystal Microbalance Sensor: Membrane Characterization and Proof of Concept. 2021 , 7,	1
261	Recent Progress in Electrochemical Immunosensors. 2021 , 11,	6
260	Recent advances in 3D printing technologies for wearable (bio)sensors. 2021 , 46, 102088	17
259	Whole-Cell-Based Fiber-Optic Biosensors. 2022 , 163-188	
258	Graphene and carbon nanotubes interfaced electrochemical nanobiosensors for the detection of SARS-CoV-2 (COVID-19) and other respiratory viral infections: A review. 2021 , 129, 112356	8
257	Electrodes for Cell Sensors Interfacing. 2022 , 569-600	
256	Organic Matter BOD Biosensor Monitoring. 2022 , 911-927	
255	Optical Approaches to Visualization of Cellular Activity. 2022 , 189-203	
254	Detection and Effects of Metal and Organometallic Compounds with Microbial Bioluminescence and Raman Spectroscopy. 2022 , 825-850	
253	MoS-based nanocomposites for cancer diagnosis and therapy. 2021 , 6, 4209-4242	42
252	Electrochemical biosensors for neglected tropical diseases: A review. 2021 , 234, 122617	1
251	A critical comparison of natural enzymes and nanozymes in biosensing and bioassays. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113494	11.8 13

250	Lectins applied to diagnosis and treatment of prostate cancer and benign hyperplasia: A review. 2021 , 190, 543-553	0
249	Biosensor-based early diagnosis of gastric cancer. 2022 , 257-269	
248	Potentialities of core@shell nanomaterials for biosensor technologies. 2022 , 306, 130912	12
247	Silicon-based biosensor. 2022 , 247-267	
246	Next generation biosensors as a cancer diagnostic tool. 2022 , 179-196	5
245	MOFs and Biomacromolecules for Biomedical Applications. 2021 , 379-432	
244	Enzyme-based electrochemical nanobiosensors using quantum dots. 2021 , 307-339	1
243	Organic and inorganic mixed phase modification of a silver surface for functionalization with biomolecules and stabilization of electromotive force.. 2021 , 11, 24958-24967	1
242	Nanobioelectrochemistry: Fundamentals and biosensor applications. 2021 , 87-128	
241	A fluorescence-based yeast sensor for monitoring acetic acid. 2021 , 21, 303-313	2
240	Materials and Methods of Biosensor Interfaces With Stability. 2021 , 7,	15
239	A Review on the Role of Nanosensors in Detecting Cellular miRNA Expression in Colorectal Cancer. 2021 , 21, 12-26	7
238	The use of nano-enabled technologies to diagnose dengue virus infections. 2021 , 71-88	
237	Recent Advances in (Bio)Chemical Sensors for Food Safety and Quality Based on Silver Nanomaterials. 2021 , 59, 216-237	3
236	Highly sensitive non-enzymatic electrochemical glucose sensor surpassing water oxidation interference. 2021 , 9, 8399-8405	3
235	Preliminary Study on the Potential Utility of GFP as a Biosensor for Drug Stability in Parenteral Solutions. 2007 , 23, 979-984	4
234	Microdialysis and Microfiltration: Technology and Cerebral Applications for Energy Substrates. 2012 , 371-414	1
233	A set of piezoelectric biosensors using cholinesterases. 2009 , 504, 3-22	2

232	µ-chip Platform for Electrical Biomolecular Sensors. 2015 , 3-23	2
231	Emerging Biosensor for Pesticide Detection. 2016 , 431-442	2
230	System of Automated Design of Biosensors. 2017 , 479-489	2
229	Potential Applications of Peroxidases in the Fine Chemical Industries. 2010 , 111-153	5
228	Aqueous electrospinning of recombinant spider silk proteins. 2020 , 106, 110145	16
227	Biosensors for Fruit and Vegetable Processing. 2010 , 313-340	1
226	Phage Display for Viral Diagnostics. 2014 , 323-356	1
225	The Use of Electrochemical Biosensors in Food Analysis. 2017 , 5, 183-195	47
224	Rapid on-site sensing aflatoxin B1 in food and feed via a chromatographic time-resolved fluoroimmunoassay. 2015 , 10, e0123266	21
223	Trends in Diagnosis for Active Tuberculosis Using Nanomaterials. 2019 , 26, 1946-1959	4
222	Cellulose-based Biosensor for Bio-molecules Detection in Medical Diagnosis: A Mini-Review. 2020 , 27, 4593-4612	8
221	Recent Advancements in Electrochemical Biosensors for Alzheimer's Disease Biomarkers Detection. 2021 , 28, 4049-4073	5
220	Hierarchical Porous Carbon Cobalt Nanocomposites-Based Sensor for Fructose. 2021 , 9, 6	3
219	Electrochemical Biosensors - Sensor Principles and Architectures. 2008 , 8, 1400-1458	1160
218	Biosensors in clinical chemistry: An overview. 2014 , 3, 67	39
217	Enabling Long-Term Operation of GaAs-Based Sensors. 2013 , 05, 1-12	8
216	Multiwall carbon nanotubes: A review on synthesis and applications. 2021 , 11,	
215	Microfluidics: Recent Advances Toward Lab-on-Chip Applications in Bioanalysis. 2100738	5

214	Carbon-Based Nanomaterials and Sensing Tools for Wearable Health Monitoring Devices. 2100572	4
213	Molecularly imprinted polymers for the extraction and determination of water-soluble vitamins: A review from 2001 to 2020. 2021 , 161, 110835	2
212	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. 2021 , 6, 3841-3881	7
211	Electrochemical Biosensor Based on Well-Dispersed Boron Nitride Colloidal Nanoparticles and DNA Aptamers for Ultrasensitive Detection of Carbendazim. 2021 , 6, 27405-27411	1
210	Successes in the Development and Application of Innovative Techniques. 2006 , 209-214	
209	Disposable Electrochemical Biosensors for Environmental Analysis. 2009 , 115-140	
208	Redundant Arrays and Next-Generation Sensors. 217-241	
207	DNA Biosensor for Environmental Risk Assessment and Drugs Studies. 2010 , 249-276	
206	Electrochemistry and Chemical Sensors. 2012 , 259-286	
205	APPLICATION TO OTHER AREAS OF HEALTH AND DISEASE. 2012 , 86-86	
204	Electrochemical Sensors. 2013 , 161-180	
203	BioFET-SIM: A Tool for the Analysis and Prediction of Signal Changes in Nanowire-Based Field Effect Transistor Biosensors. 2013 , 55-86	
202	Enzymatic Biosensors. 2013 , 123-160	
201	Encyclopedia of Applied Electrochemistry. 2014 , 136-140	1
200	Encyclopedia of Applied Electrochemistry. 2014 , 872-882	1
199	Pesticides. 2015 , 981-1020	0
198	Nucleic Acid Isothermal Amplification Technologies and Point-of-Care Diagnostics. 2014 , 433-450	
197	Basic Principles. 2015 , 1-37	1

196	Nanoelectrochemistry Applications Based on Electrospinning. 357-379	0
195	Enzymatic Sol-Gel Biosensors. 2016 , 1-39	
194	Electrochemical Sensors. 2016 , 171-193	
193	Biomedical Potential of Marine Sponges. 2016 , 329-340	
192	Influence of droplet coverage on the electrochemical response of planar microelectrodes and potential solving strategies based on nesting concept. 2016 , 4, e2400	
191	Scientific Background. 2017 , 53-82	
190	Chapter 13:Future of Nanogels for Sensing Applications. 2017 , 261-282	3
189	Nanoscale Optical Sensors Based on Surface Plasmon Resonance. 2017 , 335-370	
188	CHAPTER 8. Molecularly Imprinted Polymer-based Optical Chemosensors for Selective Chemical Determinations. 2018 , 227-281	1
187	Common configurations and challenges in screen-printed enzymatic electrochemical biosensors. 2018 ,	
186	Whole-Cell-Based Fiber-Optic Biosensors. 2019 , 1-26	
185	Techniques Used in Fish and Fishery Products Analysis. 2019 , 263-360	2
184	Bioengineered Polymer/Composites as Advanced Biological Detection of Sorbitol: An Application in Healthcare Sector. 2020 , 20, 963-981	1
183	Study on efficiency of oriented immobilization of antibodies on the SPR sensor surface using Staphylococcal protein A or its recombinant analogue. 2020 , 36, 271-278	1
182	Sensing of Airborne Infochemicals for Green Pest Management: What Is the Challenge?. 2021 , 6, 3824-3840	1
181	Detection of Biological Warfare Agents Using Biosensors. 2020 , 11-46	
180	Electrodes for Cell Sensors Interfacing. 2020 , 1-33	
179	Modeling Carbon Nanotube Based Biosensors. 2021 , 345-376	

178	Application of Mathematical Modeling to Optimal Design of Biosensors. 2021 , 405-445	
177	Biometric standards and methods. 2021 , 69, 963-977	1
176	Electrochemical biosensors for food bioprocess monitoring. 2022 , 43, 18-26	4
175	Biosensors and Biofeedback in Clinical Psychology. 2020 ,	1
174	Detection and Effects of Metal and Organometallic Compounds with Microbial Bioluminescence and Raman Spectroscopy. 2020 , 1-26	
173	Principles and Techniques in Chemical and Biological Sensing. 2020 , 1-29	1
172	Medical Diagnostics Based on Electrochemical Biosensor. 2020 , 167-194	
171	Emerging Biosensors to Detect Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): A Review. 2021 , 11,	9
170	Basic Principles. 2009 , 1-36	0
169	Immobilization: Then and Now. 2021 , 1-84	1
168	Biosensors for Clinical Samples: Consideration and Approaches. 2021 , 1-32	
167	Alternative Analyte-Binding Compounds for Immunosensor-Like Point-of-Care Application. 2021 , 111-124	
166	Plasmonic Smart Nanosensors for the Determination of Environmental Pollutants. 2020 , 237-279	1
165	Design and Application of A Bioluminescent Biosensor for Detection Of Toxicity Using Huh7-CMV-Luc Cell Line. 2019 , 18, 686-695	1
164	Determination of dopamine based on a temperature-sensitive PMEOMA and Au@rGO-MWCNT nanocomposite-modified electrode.. 2021 ,	2
163	2D material based field effect transistors and nanoelectromechanical systems for sensing applications.. 2021 , 24, 103513	1
162	Synthesis and Applications of Prussian Blue and Its Analogues as Electrochemical Sensors.. 2021 , 86, 1608-1622	2
161	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

160	Antibodies as Biosensors' Key Components: State-of-the-Art in Russia 2020-2021. 2021 , 21,	1
159	Development of custom Surface Plasmon Resonance Au biosensor for liver cancer biomarker detection. 2021 , 5, 100193	2
158	A novel biosensor based on Blu-ray disc coating film for determination of total amino acid content in tea leaves.. 2021 , 11, 39666-39671	0
157	Using FLIM-FRET for Characterizing Spatial Interactions in the Spindle.. 2022 , 2415, 221-243	
156	PEDOT-AuNPs-based impedimetric immunosensor for the detection of SARS-CoV-2 antibodies.. 2022 , 404, 139757	7
155	A copper nanoclusters probe for dual detection of microalbumin and creatinine.. 2021 , 270, 120816	3
154	Miniaturized bioelectrochemical devices. 2022 , 89-108	
153	Electrochemical Detection of Waterborne Bacteria Using Bi-Functional Magnetic Nanoparticle Conjugates.. 2022 , 12,	0
152	ZnO Transducers for Photoluminescence-Based Biosensors: A Review. 2022 , 10, 39	3
151	Electrochemical functionalization of carbon nanomaterials and their application in immobilization of enzymes. 2022 , 67-103	
150	Metal oxides and their composites as flow-through biosensors for biomonitoring. 2022 , 291-319	1
149	Metal/metal oxides for electrochemical DNA biosensing. 2022 , 265-289	
148	Circulating miRNAs as biomarkers for noninvasive cancer diagnosis. 2022 , 71-112	1
147	Functionalized nanomaterial- based electrochemical sensors for point-of-care devices. 2022 , 309-335	
146	A Photosensitized Singlet Oxygen (O) Toolbox for Bio-Organic Applications: Tailoring O Generation for DNA and Protein Labelling, Targeting and Biosensing.. 2022 , 27,	0
145	Wearable Electrochemical Sensors in Parkinson's Disease.. 2022 , 22,	0
144	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. 2022 , 29, 1293-1305	5
143	Aptasensors versus immunosensors-Which will prevail?. 2022 , 22, 319-333	3

142	Recent Progress in Rapid Determination of Mycotoxins Based on Emerging Biorecognition Molecules: A Review.. 2022 , 14,		1
141	Current Advancement in Biosensing techniques for determination of Alanine aminotransferase and Aspartate aminotransferase-a Mini Review. 2022 , 114, 71-76		1
140	Frontier and hot topics in electrochemiluminescence sensing technology based on CiteSpace bibliometric analysis.. <i>Biosensors and Bioelectronics</i> , 2021 , 201, 113932	11.8	3
139	The performance enhancement of surface plasmon resonance optical sensors using nanomaterials: A review. 2022 , 458, 214424		8
138	Microfluidics and lab-on-a-chip. 2022 , 261-287		
137	Nanotechnology Toolkit for Combating COVID-19 and Beyond.. 2022 , 8, e202100505		1
136	Rapid printing of a Bacterial array for a Solid-Phase Assay (BacSPA) of heavy metal ions. 2022 , 359, 131540		
135	Electrochemical Biosensors for Food Safety Control in Food Processing. 2022 , 45-64		
134	Neurochemical Sensing. 2022 , 1-31		
133	Conducting Polymers and Carbon-Based Materials in Biosensor Applications. 2022 , 101-119		
132	Development and Application of Liquid Crystals as Stimuli-Responsive Sensors.. 2022 , 27,		3
131	Fiber Optics for Sensing Applications in a Review. 911, 65-76		0
130	Implantable biosensors for musculoskeletal health.. 2022 , 1-15		1
129	Enzyme based field effect transistor: State-of-the-art and future perspectives.		2
128	Biosensors for the detection of : a comprehensive overview.. 2022 , 1-29		1
127	Smartphone-Based and Miniaturized Electrochemical Biosensing System for L-Lactate Detection.		0
126	Six-arm Stellat Dendritic-PbS Flexible Infrared Photodetector for Intelligent Healthcare Monitoring. 2200250		1
125	Gas- and Biosensors Made From Metal Oxides Doped with Carbon Nanotubes. 2022 , 57, 54-75		2

124	Recent Study on Schottky Tunnel Field Effect Transistor for Biosensing Applications.	1
123	Review Metal and Metal Oxide Nanoparticles/Nanocomposites as Electrochemical Biosensors for Cancer Detection. 2022 , 169, 047504	0
122	Three-dimensional highway-like graphite flakes/carbon fiber hybrid electrode for electrochemical biosensor. 2022 , 14, 100238	1
121	Nanoheterostructures based on nanosized Prussian blue and its Analogues: Design, properties and applications. 2022 , 461, 214497	3
120	Design of a new label free active biosensor based on metallic nanoparticles-doped graphene nanodisk platform. 2022 , 515, 128220	
119	Advances in Medical Wearable Biosensors: Design, Fabrication and Materials Strategies in Healthcare Monitoring.. 2021 , 27,	4
118	Single-Molecule Mechanochemical Sensing.. 2022 ,	2
117	A Review on Flexible Electrochemical Biosensors to Monitor Alcohol in Sweat.. 2022 , 12,	1
116	Peptide Nucleic Acid (PNA): A Diagnostic Molecule for Infectious Diseases. 2022 , 137-149	
115	Plant Secondary Metabolites: A Biosensing Approach. 2022 , 249-268	
114	New PEPTIR-2.0 Peptide Designed for Use as Recognition Element in Electrochemical Biosensors with Improved Specificity towards O157:H7.. 2022 , 27,	1
113	Development of a Novel Electrochemical Sensor Based on Functionalized Carbon Black for the Detection of Guanine Released from DNA Hydrolysis.	
112	Enzymatic biosensors with electrochemiluminescence transduction.	2
111	Electrochemical Aptasensors for Antibiotics Detection: Recent Achievements and Applications for Monitoring Food Safety. 2022 , 22, 3684	1
110	Emerging Materials for Biosensor Applications in Healthcare. 2022 , 213-263	
109	Various types of electrochemical biosensors for leukemia detection and therapeutic approaches.. 2022 , 114736	7
108	Nanomaterials for Biomedical Engineering Applications. 2022 , 75-102	0
107	Application of Biosensors in Precision Agriculture. 2022 ,	

106	Electrochemical Aptasensors for Parkinson's Disease Biomarkers Detection. 2022 , 29,	1
105	Transducer Technologies for Biosensors and Their Wearable Applications. 2022 , 12, 385	5
104	Advances in early diagnosis of cervical cancer based on biosensors.	1
103	A highly sensitive fiber optic biosensors with graphene-MoS ₂ heterostructure for hemoglobin detection.	
102	A disposable printed amperometric biosensor for clinical evaluation of creatinine in renal function detection. 2022 , 248, 123592	0
101	Tunable Construction of Electrochemical Sensors for Chlorophenols Detection.	1
100	Recent advancement in noninvasive glucose monitoring and closed-loop management system for diabetes.	1
99	Point of care diagnostics for cancer: Recent trends and challenges. 2022 , 29-64	
98	Recent Advances in Plasmonic Biosensors for the Detection of Food Allergens. 2022 ,	
97	Graphene Quantum Dot-Doped PEDOT for the Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid.	
96	Overview on Advancement in Biosensing Technology including its applications in Healthcare. 2022 , 23,	1
95	Plasma Functionalized Carbon Interfaces for Biosensor Application: Toward the Real-Time Detection of Escherichia coli O157:H7. 2022 , 7, 21025-21034	
94	Electrochemical Sensors for Food Quality and Safety. 2022 , 111-129	
93	Advances in Biosensing Technology in the Pharmaceutical Industry. 2022 , 243-263	0
92	Transcription Factor-Based Biosensors for Detecting Pathogens. 2022 , 12, 470	0
91	Application and Progress of Chemometrics in Voltammetric Biosensing. 2022 , 12, 494	4
90	Tailoring micro/nano-fibers for biomedical applications. 2023 , 19, 328-347	8
89	Electrochemically active biofilm-enabled biosensors: Current status and opportunities for biofilm engineering. 2022 , 140917	

88 Carbon Nanotubes-Based Biosensors. **2023**, 29-40

87 Novel electrochemical biosensing for detection of neglected tropical parasites of animal origin: Recent advances.

86 Designing electrochemical microfluidic multiplexed biosensors for on-site applications. ○

85 Electrochemical aptasensors for clinical diagnosis. A review of the last five years. **2022**, 369, 132318 ○

84 Recent Progress on Sensitivity Analysis of Schottky Field Effect transistor Based Biosensors. ○

83 An LSPR Sensor Integrated with VCSEL and Microfluidic Chip. **2022**, 12, 2607 1

82 Electrochemical Sensing Systems for the Analysis of Catechol and Hydroquinone in the Aquatic Environments: A Critical Review. 1-14

81 Determination of rSpike Protein by Specific Antibodies with Screen-Printed Carbon Electrode Modified by Electrodeposited Gold Nanostructures. **2022**, 12, 593 4

80 Modeling and proposal of a black phosphorus-based nanostructure for detection of avian influenza virus in infrared region. **2022**, 54, ○

79 Use of biosensor technology in analysing milk and dairy components: A review.

78 A review of synthesis, fabrication, and emerging biomedical applications of metal-organic frameworks. **2022**, 140, 213049 ○

77 Passive direct methanol fuel cells acting as fully autonomous electrochemical biosensors: Application to sarcosine detection. **2022**, 922, 116710 ○

76 Recent advances in the electrochemical sensing of lung cancer biomarkers. **2022**, 12, 100235 ○

75 Nanotubes tethered laccase biosensor for sensing of chlorophenol substances. **2023**, 331-356 ○

74 Performance Estimation of Different Tunnel Field Effect Transistor Based Biosensors Used in the Biomedical and Its Future Prospective. **2022**, 707-718 ○

73 Integrated biosensors for monitoring microphysiological systems. 1

72 Biosensing technologies applied in virus detection as rapid tools during pandemics: past lessons and recent trends. **2022**, 335-364 ○

71 Biosensors: Types, features, and application in biomedicine. **2022**, 12, 367 ○

70	An Overview of the Synergy of Electrochemistry and Nanotechnology for Advancements in Sensing Applications.	0
69	Microbial Biosensors for Environmental Monitoring. 2022 , 105-136	0
68	Bioanalytical methods encompassing label-free and labeled tuberculosis aptasensors: A review. 2022 , 340326	0
67	Real scenario of metal ion sensor: is conjugated polymer helpful to detect hazardous metal ion. 2022 ,	0
66	Biotechnological Advances in Detection of Contaminants from Wastewater. 2100439	0
65	Electrochemical Sensors and Their Applications: A Review. 2022 , 10, 363	11
64	Device Processing Challenges for Miniaturized Sensing Systems Targeting Biological Fluids.	0
63	Carbon Nanotube and Its Derived Nanomaterials Based High Performance Biosensing Platform. 2022 , 12, 731	5
62	Biosensors and Drug Delivery in Oncotheranostics Using Inorganic Synthetic and Biogenic Magnetic Nanoparticles. 2022 , 12, 789	0
61	A Paradigm of Internet-of-Nano-Things Inspired Intelligent Plant Pathogen-Diagnostic Biosensors. 2022 , 1, 031401	2
60	Performative Analysis on Ion-Sensitive Field-Effect Transistor by Varying Intrinsic Parameter. 2022 , 637-649	0
59	Biopolymer-Based Active and Intelligent Packaging for Food Applications. 2022 , 245-275	0
58	Tailored point-of-care biosensors for liquid biopsy in the field of oncology.	1
57	Chapter 1. Sensors for the Food Industry: An Introduction. 2022 , 1-21	0
56	Utilization of Biosensors in the Identification of Bacterial Diseases in Maize. 2022 , 271-292	0
55	Application of Biosensors in Plant Disease Detection. 2022 , 127-143	0
54	Electrochemical Biosensors for Pathogen Detection: An Updated Review. 2022 , 12, 927	2
53	Significance of an Electrochemical Sensor and Nanocomposites: Toward the Electrocatalytic Detection of Neurotransmitters and Their Importance within the Physiological System.	4

52	ReviewRecent Advances in Polydopamine-based Electrochemical Biosensors. 2022 , 169, 107505	1
51	An Overview of Integrated Miniaturized/Microfluidic Electrochemical Biosensor Platforms for Health Care Applications. 2023 , 81-101	0
50	The Use of Diethoxydimethylsilane as the Basis of a Hybrid Organosilicon Material for the Production of Biosensitive Membranes for Sensory Devices. 2022 , 12, 983	0
49	Emergence of infectious diseases and role of advanced nanomaterials in point-of-care diagnostics: a review. 1-89	2
48	Microbial Biosensors for Rapid Determination of Biochemical Oxygen Demand: Approaches, Tendencies and Development Prospects. 2022 , 12, 842	1
47	SARS-CoV-2-on-Chip for Long COVID Management. 2022 , 12, 890	1
46	Application of Nanotechnology in COVID-19 Infection: Findings and Limitations. 2022 , 3, 203-232	0
45	Adsorption properties of metal functionalized fullerene (C59Au, C59Hf, C59Ag, and C59Ir) nanoclusters for application as a biosensor for hydroxyurea (HXU): insight from theoretical computation. 2022 ,	7
44	2D Materials towards sensing technology: From fundamentals to applications. 2022 , 38, 100540	1
43	Recent Trends in Carbon Nanotube (CNT) based biosensors for fast and sensitive detection of human viruses: A critical review.	1
42	Biomedical applications of bioelectrochemical sensors. 2023 , 239-260	0
41	Introduction to sensors and types of biosensors. 2023 , 1-12	0
40	Microfluidic-based plasmonic biosensors. 2023 , 287-312	0
39	Enzymatic biosensors. 2023 , 341-363	0
38	Electrochemical detection of riboflavin in pharmaceutical and food samples using in situ electropolymerized glycine coated pencil graphite electrode. 2023 , 928, 117037	0
37	2D MXene-Based Biosensing: A Review. 2205249	2
36	Recent Development in Detection Systems for Human Viral Pathogens from Clinical Samples with Special Reference to Biosensors. 2023 , 1-25	0
35	Nano-biosensors for Diagnosing Infectious and Lifestyle-Related Disease of Human: An Update. 2023 , 79-103	0

- 34 An Overview of Biomolecules Used in the Development of Point-of-Care Sensor. **2022**, 25-53 ○
- 33 A State-of-the-Art Systemic Review on Selenium Nanoparticles: Mechanisms and Factors Influencing Biogenesis and Its Potential Applications. 2
- 32 Engineered Nanomaterial based Implantable MicroNanoelectrode for in vivo Analysis: Technological Advancement and Commercial Aspects. **2023**, 108431 ○
- 31 Assessment of diabetes biomarker monitoring via novel biosensor activity. **2023**, 5, 100777 ○
- 30 Biosensor Techniques for Environmental Monitoring. **2011**, 1-16 ○
- 29 Enzymes: classification and biomedical applications. **2023**, 389-412 ○
- 28 Electrochemical and Optical Detection of MicroRNAs as Biomarkers for Cancer Diagnosis. **2023**, 272-348 ○
- 27 Neurochemical Sensing. **2023**, 591-621 ○
- 26 A review on the recent advancements in nanomaterials for nonenzymatic lactate sensing. ○
- 25 Aptamer-based rapid diagnosis for point-of-care application. **2023**, 27, ○
- 24 Recent advances in biosensing technologies for detecting hormones. **2023**, 261-295 ○
- 23 Future prospects for the biodegradability of conventional plastics. **2023**, 361-375 ○
- 22 Biosensors for bacteria detection. **2023**, 81-123 ○
- 21 Polymer composites for biosensors. **2023**, 323-342 ○
- 20 Transducers in Biosensors. **2023**, 101-125 ○
- 19 Smartphone-powered, ultrasensitive, and selective, portable and stable multi-analyte chemiresistive immunosensing platform with PPY/COOH-MWCNT as bioelectrical transducer: Towards point-of-care TBI diagnosis. **2023**, 151, 108391 ○
- 18 Biosensors integrated 3D organoid/organ-on-a-chip system: A real-time biomechanical, biophysical, and biochemical monitoring and characterization. **2023**, 231, 115285 ○
- 17 Defective porphyrin-based metal-organic framework nanosheets derived from V2CTx MXene as a robust bioplatforM for impedimetric aptasensing 17Estradiol. **2023**, 416, 135839 ○

- 16 Monitoring of Microbial Safety of Foods Using Lectins: A Review. 2, ○
- 15 DNA/RNA Aptamers for Illicit Drug Molecules. **2017**, 167-189 ○
- 14 Voltammetric Sensors: A Versatile Tool in COVID-19 Diagnosis and Prognosis. **2023**, 8, ○
- 13 An Efficient Multilayer Approach to Model DNA-Based Nanobiosensors. **2023**, 127, 1513-1525 ○
- 12 COVID-19: Prevention, Detection, and Treatment by Using Carbon Nanotubes-Based Materials. **2023**, 8, ○
- 11 Development of Sustainable Electrochemical Sensors. 341-366 ○
- 10 Electrochemical (Bio)sensors for Toxins Control in the Marine Environment. **2023**, ○
- 9 Biosensors for phytohormone Abscisic acid and its role in humans: A review. **2023**, 4, 100234 ○
- 8 Electrochemical Biosensors in Agricultural and Veterinary Applications. **2023**, 349-385 ○
- 7 Live Cells as Biosensors. **2023**, 291-322 ○
- 6 Carbon Nanomaterial-Based Biosensors: A Forthcoming Future for Clinical Diagnostics. **2023**, 1067-1089 ○
- 5 Lab-On-Chip Electrochemical Biosensor for Rheumatoid Arthritis. **2023**, 157-181 ○
- 4 BIOSENSORS: TYPES, APPLICATIONS, AND FUTURE ADVANTAGES. **2023**, 457-481 ○
- 3 AI in microfabrication technology. **2023**, 213-239 ○
- 2 Cytochromes as electron shuttles from FAD-dependent glucose dehydrogenase to electrodes. **2023**, 458, 142485 ○
- 1 Sensor principles and basic designs. **2023**, 17-43 ○