Citation Report
List of articles citing

Glucose oxidase: an ideal enzyme

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Biosensors and Bioelectronics, 1992, 7, 165-185.

#	Paper	IF	Citations
1136	Enzyme Immobilization in Polyelectrolyte Brushes: High Loading and Enhanced Activity Compared to Monolayers.		
1135	Clinical evaluation of a prototype glucose electrode. *Biosensors and Bioelectronics*, **1992**, 7, 683-7	11.8	2
1134	Microtitre plate enzyme amplified immunoassay for thyroid stimulating hormone. **1992**, 269, 301-306		2
1133	Development of a flow-through electrochemical detector for glucose based on a glucose oxidase-modified microelectrode incorporating redox and conducting polymer materials. **1993**, 278, 5-16		34
1132	Amperometric enzyme electrode with fast response to glucose using a layer of lipid-modified glucose oxidase and Nafion anionic polymer. **1993**, 274, 201-207		49
1131	Polyferrocenes as mediators in amperometric biosensors for glucose. **1993**, 281, 453-459		63
1130	Chemiluminescent flow injection analysis of glucose in drinks with a bienzyme fiberoptic biosensor. **1993**, 15, 407-411		49
1129	Towards mediator design. **1993**, 359, 125-139		44
1128	Flow-injection analysis with Fourier transform infrared spectrometric detection: a potential tool for the analysis in complex matrices. **1993**, 5, 33-42		2
1127	Enzyme-entrapping membranes for biosensors obtained by radiation-induced polymerization. *Biosensors and Bioelectronics*, **1993**, 8, 443-450	11.8	24
1126	Modelling of processes in enzyme electrodes. *Biosensors and Bioelectronics*, **1993**, 8, 451-462	11.8	74
1125	Improvement of the Selectivity of Amperometric Biosensors by Using a Permselective Electropolymerized Film. **1993**, 26, 1383-1390		16
1124	Glucose Oxidase Electrode Based on Graphite and Methylthio Tetrathiafulvalene as Mediator. **1993** , 26, 2535-2542		6
1123	A Fast Made Disposable Glucose Biosensor Incorporating the Oxidase and a Ferrocene in an Alginate Gel. **1994**, 27, 2813-2821		5
1122	Monitoring the activity of glucose oxidase during the cultivation of Aspergillus niger using novel amperometric sensor with 1, 1'-dimethylferricinium as a mediator. *Biosensors and Bioelectronics*, **1994**, 9, 577-84	11.8	14
1121	Biosensors. **1994**, 5, 49-53		26
1120	Electrocatalytical oxidation of glucose on graphite using covalently immobilized glucose oxidase and 1,6-dithia- and 1,6-dioxapyrenes as mediators. **1994**, 6, 740-745		2

1119	Amperometric glucose sensor containing nondiffusional osmium redox centers: Analysis of organic-phase responses. **1994**, 6, 982-989		21
1118	Novel redox surfactants and their interactions with glucose oxidase of Aspergillus niger. **1994**, 44, 407-18		15
1117	Electrical communication between a water-soluble 1,1?-dimethylferrocene-2-hydroxypropyl-Ecyclodextrin complex and glucose oxidase: biosensor applications. *Biosensors and Bioelectronics*, **1994**, 9, 305-313	11.8	17
1116	Observation of direct electron transfer from the active center of glucose oxidase to a graphite electrode achieved through the use of mild immobilization. **1994**, 33, 191-199		18
1115	Properties of porous activated carbon electrode materials used as sensors for glucose. **1994**, 364, 87-94		3
1114	PolypyrrolePrussian Blue films with controlled level of doping: codeposition of polypyrrole and Prussian Blue. **1994**, 370, 301-303		31
1113	A renewable glucose sensor fabricated from microemulsion polymerization of thiophene in a flow cell with application in a high-performance liquid chromatography system. **1994**, 379, 293-300		8
1112	Technology for Regenerable Biosensor Probes Based on Enzyme-Cellulose Binding Domain Conjugates. **1994**, 10, 433-440		12
1111	Glucoseoxidase from Aspergillus niger in reverse micelles: pH and wo dependence. **1994**, 29, 207-16		8
1110	Development of a novel enzyme based glucose sensor. **1995**, 10, 49-58		
1109	Effect of protein chemical hydrophobization on antiglucose oxidase immunoglobulin production in mouse. **1995**, 76, 278-85		4
1108	Electrochemical sensors for continuous monitoring during surgery and intensive care. **1995**, 104, 15-9		7
1107	An autoclavable glucose biosensor for microbial fermentation monitoring and control. **1995**, 46, 514-24		18
1106	Amperometric glucose-sensing electrode based on carbon paste containing poly (ethylene glycol)-modified glucose oxidase and cobalt octaethoxyphthalocyanine. **1995**, 300, 59-64		36
1105	Carbon paste electrodes modified with enzymes, tissues, and cells. **1995**, 7, 23-45		467
1104	Methylene-green-mediated carbon paste glucose biosensor. **1995**, 7, 92-94		16
1103	Enzyme-modified microelectrodes for in vivo neurochemical measurements. **1995**, 7, 405-416		77
1102	Amperometric glucose biosensors based on an osmium (2+/3+) redox polymer-mediated electron transfer at carbon paste electrodes. **1995**, 7, 619-625		26

1101	Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems. **1995**, 310, 161-171		20
1100	The effect of divalent metal ions on the performance of a glucose-sensitive ENFET using potassium ferricyanide as an oxidising substrate. **1995**, 27, 432-435		4
1099	Mutagenic activity of group VIII metal-organic complexes in the Ames test: evaluation of potential glucose biosensor components. **1995**, 8, 257		2
1098	Electrochemical and bioelectrocatalytical properties of polydimethylsiloxane carbon paste doped with glucose oxidase. **1995**, 3, 51-56		4
1097	The design of enzyme sensors based on the enzyme structure. *Biosensors and Bioelectronics*, **1995**, 10, 735-42	11.8	44
1096	Solvent effects on the reactivities of an amperometric glucose sensor. **1995**, 390, 35-45		33
1095	A study of the kinetics of the reaction between ferrocene monocarboxylic acid and glucose oxidase using the rotating-disc electrode. **1995**, 397, 53-60		39
1094	Glucose oxidase as a tool to study in vivo the interaction of glycosylated polymers with the mannose receptor of macrophages. **1995**, 33, 115-123		12
1093	Recent advances in amperometric glucose biosensors for in vivo monitoring. **1995**, 16, 1-15		88
1092	Detection of glucose via electrochemiluminescence in a thin-layer cell with a planar optical waveguide. **1995**, 6, 1325-1328		53
1091	A glucose sensor made of an enzymatic clay-modified electrode and methyl viologen mediator. **1996**, 68, 2635-40		70
1090	Immobilization of glucose oxidase onto the blend membrane of poly(vinyl alcohol) and regenerated silk fibroin: morphology and application to glucose biosensor. **1996**, 46, 131-138		37
1089	Modification of Ferrocene-Containing Redox Gel Sensor Performance by Copolymerization of Charged Monomers. **1996**, 68, 3951-3957		24
1088	Electrical Communication between Electrodes and Enzymes Mediated by Redox Hydrogels. **1996**, 68, 4186-93		100
1087	Reversible Associative and Dissociative Interactions of Glucose Oxidase with Nitrospiropyran Monolayers Assembled onto Gold Electrodes: Amperometric Transduction of Recorded Optical Signals. **1996**, 12, 946-954		94
1086	Improvement of Electrochemical Biosensors Using Enzyme Immobilization from Water–Organic Mixtures with a High Content of Organic Solvent. **1996**, 68, 4335-4341		63
1085	Enzyme Ultra-thin Layer Electrode Prepared by the Co-adsorption of Poly-L-lysine and Glucose Oxidase onto a Mercaptopropionic Acid-Modified Gold Surface. **1996**, 25, 251-252		38
1084	Challenges in integrating biosensors and FIA for on-line monitoring and control. **1996**, 14, 21-31		54

1083	Ferricenium salts as true substrates of glucose oxidase. **1996**, 61, 25-37		11
1082	Electrochemical adsorption of glucose oxidase onto polypyrrole film for the construction of a glucose biosensor. **1996**, 30, 137-141		22
1081	Covalent enzyme immobilization on paramagnetic polyacrolein beads. *Biosensors and Bioelectronics* , **1996**, 11, 443-8	11.8	37
1080	Kinetics of o-benzoquinone mediated oxidation of glucose by glucose oxidase at edge plane pyrolytic graphite electrode. **1996**, 8, 597-601		15
1079	Development of a pyrroloquinoline quinone (PQQ) mediated glucose oxidase enzyme electrode for detection of glucose in fruit juice. **1996**, 8, 870-875		22
1078	Crystal structure of tris(4,4?-dimethoxy-2,2?-bipyridine)iron (II) bis (hexafluorophosphate) , solvate with N-methyl-2-pyrrolidone. **1996**, 247, 237-245		10
1077	Enzymatic membranes for determination of some disaccharides by means of an oxygen electrode. *Biosensors and Bioelectronics*, **1996**, 11, 355-64	11.8	24
1076	In vivo and in vitro deactivation rates of PTFE-coupled glucose oxidase. *Biosensors and Bioelectronics*, **1996**, 11, 791-8	11.8	8
1075	Electrochemiluminescence detection of glucose oxidase as a model for flow injection immunoassays. *Biosensors and Bioelectronics*, **1996**, 11, 805-810	11.8	36
1074	Reversible coupling of glucoenzymes on fluoride-sensitive FET biosensors based on lectin-glucoprotein binding. *Biosensors and Bioelectronics*, **1996**, 11, 1229-1236	11.8	16
1073	Glucose oxidase mediation by soluble and immobilized electroactive detergents. *Biosensors and Bioelectronics*, **1996**, 11, 305-15	11.8	13
1072	Sol-gel derived ceramic-carbon enzyme electrodes: Glucose oxidase as a test case. **1996**, 7, 123-128		27
1071	Novel instrumentation for real-time monitoring using miniaturized flow systems with integrated biosensors. **1997**, 34 (Pt 3), 291-302		43
1070	A Combined Chemical and Electrochemical Approach Using Bis(trifluoroacetoxy)iodobenzene and Glucose Oxidase for the Detection of Chlorinated Phenols. **1997**, 69, 4324-30		34
1069	Sugar oxidoreductases and veratryl alcohol oxidase as related to lignin degradation. **1997**, 53, 115-31		101
1068	Layer-by-Layer Self-Assembly of Glucose Oxidase with a Poly(allylamine)ferrocene Redox Mediator. **1997**, 13, 2708-2716		384
1067	Immobilization of glucose oxidase onto a Langmuir-Blodgett ultrathin film of a cellulose derivative deposited on a self-assembled monolayer. **1997**, 4, 279-291		22
1066	Amperometric biosensor with physically immobilized glucose oxidase on a PVA cryogel membrane. **1997**, 44, 859-66		23

1065	Sol Gel Materials in Electrochemistry. **1997**, 9, 2354-2375		332
1064	Characteristics of the glucose oxidase at different surfaces. **1997**, 42, 63-69		19
1063	Design of novel molecular wires for realizing long-distance electron transfer. **1997**, 42, 25-33		21
1062	Modified PMMA monosize microbeads for glucose oxidase immobilization. **1997**, 65, 71-76		77
1061	Conversion of O species by cellobiose dehydrogenase (cellobiose oxidase) and glucose oxidase a comparison. **1997**, 19, 379-384		17
1060	Regulatory role of surfactants in the kinetics of glucose oxidase-catalyzed oxidation ofd-glucose by ferrocenium andn-butylferrocenium ions. **1997**, 46, 1700-1706		1
1059	Light-controlled electron transfer reactions at photoisomerizable monolayer electrodes by means of electrostatic interactions: active interfaces for the amperometric transduction of recorded optical signals. *Biosensors and Bioelectronics*, **1997**, 12, 703-719	11.8	59
1058	Modified PMMA monosize microbeads for glucose oxidase immobilization. **1997**, 65, 71-76		10
1057	Tuning of lipid bilayer fluidity regulates mediated electron transfer reactions of glucose oxidase immobilized on lipid bilayer films on an electrode. **1997**, 42, 59-62		12
1056	Photoswitchable biomaterials as grounds for optobioelectronic devices. **1997**, 42, 43-57		42
1055	Detection of hydrogen peroxide and other molecules of biologicl importance at an electrocataltic surface on a carbon fiber microelectrode. **1997**, 9, 102-109		45
1054	Peroxidase-glucose oxidase-poly(amphiphilic pyrrole) bioelectrode for selectively mediated amperometric detection of glucose. **1997**, 9, 998-1004		16
1053	Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode. **1997**, 350, 91-96		45
1052	Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor. **1998**, 364, 173-179		64
1051	Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes. **1998**, 368, 219-231		19
1050	Biosensors based on light-addressable potentiometric sensors for urea, penicillin and glucose. **1998** , 373, 9-13		68
1049	Tris(4,4?-dimethoxy-2,2?-bipyridine)osmium(II), amperometric properties and crystal structure. **1998**, 274, 64-72		13
1048	Enantioselective hydroxylation of 4-alkylphenols by vanillyl alcohol oxidase. **1998**, 59, 171-7		29

1047	Pyranose Oxidase Modified Carbon Paste Electrodes for Monosaccharide Determination. **1998**, 10, 223-230		33
1046	Electrocatalytic Oxidation of Sulfhydryl Compounds at Ruthenium(III) Diphenyldithiocarbamate Modified Carbon Paste Electrode. **1998**, 10, 779-783		51
1045	Mytilus edulis Adhesive Protein (MAP) as an Enzyme Immobilization Matrix in the Fabrication of Enzyme-Based Electrodes. **1998**, 10, 1193-1199		13
1044	Electrosynthesized non-conducting polymers as permselective membranes in amperometric enzyme electrodes: a glucose biosensor based on a co-crosslinked glucose oxidase/overoxidized polypyrrole bilayer. *Biosensors and Bioelectronics*, **1998**, 13, 103-12	11.8	82
1043	An amperometric glucose-oxidase/poly(o-phenylenediamine) biosensor for monitoring brain extracellular glucose: in vivo characterisation in the striatum of freely-moving rats. **1998**, 79, 65-74		93
1042	Performance of subcutaneously implanted glucose sensors: a review. **1998**, 11, 163-74		59
1041	Pulsed Amperometric Detection of Microdialysates from the Glucose Oxidase Reaction. **1998**, 70, 801-806		17
1040	Photoswitchable Antigen–Antibody Interactions Studied by Impedance Spectroscopy. **1998**, 102, 10359-10367		95
1039	Adsorption Influence on Bioseparation and Inactivation. **1998**, 213-258		
1038	Bioencapsulation in Sol-Gel Glasses. **1998**, 519, 171		10
1037	Structural and kinetic properties of nonglycosylated recombinant Penicillium amagasakiense glucose oxidase expressed in Escherichia coli. **1998**, 64, 1405-11		63
1036	Comparison of techniques for enzyme immobilization on silicon supports. **1999**, 24, 26-34		153
1035	Calculation of immobilized enzyme reaction progress curves from nested ordered-sequential rate expressions. **1999**, 24, 675-686		2
1034	Electronic transduction of photostimulated binding interactions at photoisomerizable monolayer electrodes: novel approaches for optobioelectronic systems and reversible immunosensor devices. **1999**, 15, 991-1002		18
1033	Enzyme electrodes based on self-assembled monolayers of thiol compounds on gold. **1999**, 44, 3833-3838		28
1032	Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors. **1999**, 385, 45-58		126
1031	Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors. **1999**, 400, 91-108		456
1030	Complexation of ruthenium with glucose oxidase modified by 4-pyridineacetic and 4-imidazoleacetic acids. **1999**, 9, 173-175		1

1029	Influence of polymerization parameters and entrapment in poly(hydroxyethyl methacrylate) on activity and stability of GOD. **1999**, 7, 85-91		20
1028	Chemically Modified Glucose Oxidase with Enhanced Hydrophobicity: Adsorption at Polystyrene, Silica, and Silica Coated by Lipid Monolayers. **1999**, 218, 300-308		20
1027	Nature of oxygen activation in glucose oxidase from Aspergillus niger: the importance of electrostatic stabilization in superoxide formation. **1999**, 38, 8572-81		82
1026	Use of Mixed Self-Assembled Monolayers in a Study of the Effect of the Microenvironment on Immobilized Glucose Oxidase. **1999**, 15, 1198-1207		81
1025	A Layer-by-Layer Deposition of Concanavalin A and Native Glucose Oxidase to Form Multilayer Thin Films for Biosensor Applications. **1999**, 28, 365-366		21
1024	Electron Transport and Two-Dimensional Organization of Metalloprotein Adsorbates Investigated by Cyclic Voltammetry and In Situ Scanning Tunnelling and Atomic Force Microscopy. **1999**, 37, 133-160		
1023	Voltammetry In Vivo for Chemical Analysis of the Living Brain. **2000**,		3
1022	Semi-on-line analysis for fast and precise monitoring of bioreaction processes. **1996**, 52, 237-47		11
1021	Improved operational stability of peroxidases by coimmobilization with glucose oxidase. **2000**, 69, 286-291		124
1020	Permselective Behavior of an Electrosynthesized, Nonconducting Thin Film of Poly(2-naphthol) and Its Application to Enzyme Immobilization. **2000**, 12, 825-830		24
1019	Parameters important in tuning the response of monolayer enzyme electrodes fabricated using self-assembled monolayers of alkanethiols. *Biosensors and Bioelectronics*, **2000**, 15, 229-39	11.8	68
1018	Strategies for the improvement of an amperometric cholesterol biosensor based on electropolymerization in flow systems: use of charge-transfer mediators and platinization of the electrode. **2000**, 24, 51-63		41
1017	Effects of conditions ofPenicillium funiculosum G-15 cultivation on production of extracellular glucose oxidase. **2000**, 36, 169-172		
1016	Isolation and characterization ofPenicillium funiculosum mutants with enhanced glucose oxidase production. **2000**, 69, 406-410		
1015	Immobilized glucose oxidase in implantable glucose sensor technology. **2000**, 2, 377-80		19
1014	In vitro and in vivo degradation of glucose oxidase enzyme used for an implantable glucose biosensor. **2000**, 2, 367-76		43
1013	Study of the Dynamic Structure of Native and Hydrophobized Glucose Oxidase by Time-Domain Dielectric Spectroscopy. **2000**, 104, 7588-7594		3
1012	Encapsulation of biomolecules in silica gels. **2001**, 13, R673-R691		242

1011	Biosensors: MICREDOX - a new biosensor technique for rapid measurement of BOD and toxicity. **2001**, 6, 83-9		27
1010	N,N-Dimethylindoaniline Mediated-Amperometric Detection of L-lactate. **2001**, 74, 2369-2372		3
1009	A novel carbohydrate:acceptor oxidoreductase from Microdochium nivale. **2001**, 268, 1136-42		49
1008	Enzymatic chemistry of ferrocenes: micellar tuning of the glucose oxidase reactivity toward solubilized electrochemically generated n-alkylferricenium cations. **2001**, 637-639, 469-475		13
1007	The glucose sensor integratable in the microchannel. **2001**, 78, 221-227		14
1006	Recombinant Microdochium nivale carbohydrate oxidase and its application in an amperometric glucose sensor. *Biosensors and Bioelectronics*, **2001**, 16, 319-24	11.8	12
1005	Influence of inflammatory cells and serum on the performance of implantable glucose sensors. **2001**, 54, 69-75		74
1004	Electrogeneration of a Hydrophilic Cross-Linked Polypyrrole Film for Enzyme Electrode Fabrication. Application to the Amperometric Detection of Glucose. **2001**, 13, 186-190		34
1003	Prussian Blue and Its Analogues: Electrochemistry and Analytical Applications. **2001**, 13, 813-819		710
1002	Novel electron transfer mediators based on dichloroindophenol derivatives for lactate oxidase. **2001**, 510, 149-152		3
1001	Improving the catalytic performance of peroxidases in organic synthesis. **2001**, 19, 73-80		97
1000	Specificity and kinetic parameters of recombinant Microdochium nivale carbohydrate oxidase. **2001** , 13, 95-101		14
999	Transmission Electron Microscopy at Cryogenic Temperatures and Dynamic Light Scattering Studies of Glucose Oxidase Molecules and Self-Aggregated Nanoparticles. **2002**, 18, 3390-3391		11
998	Hydrogen peroxide generation with immobilized glucose oxidase for textile bleaching. **2002**, 93, 87-94		110
997	Electrochemically mediated electrodeposition/electropolymerization to yield a glucose microbiosensor with improved characteristics. **2002**, 74, 368-72		113
996	Optimal environment for glucose oxidase in perfluorosulfonated ionomer membranes: improvement of first-generation biosensors. **2002**, 74, 1597-603		125
995	Electronic and Optical Transduction of Photoisomerization Processes at Molecular- and Biomolecular-Functionalized Surfaces. **2002**, 219-268		21
994	An amperometric sensor employing glucose oxidase immobilized on nylon membranes with different pore diameter and grafted with different monomers. **2002**, 18, 49-67		25

993	Toward an enzyme-based oxygen scavenging laminate. Influence of industrial lamination conditions on the performance of glucose oxidase. **2002**, 79, 37-42		23
992	Bioorganic mechanisms of the formation of free radicals catalyzed by glucose oxidase. **2002**, 30, 95-106		7
991	Native and modified glucose oxidase in reversed micelles. **2002**, 24, 177-183		17
990	Transfer of mixed protein–fatty acid LB films onto Si/SiO2 substrates. Influence of the surface free energy. **2002**, 22, 79-85		22
989	Continuous monitoring of D-glucose and L-lactate by flow injection analysis. **2002**, 30, 129-133		7
988	Data from overlapping signals at an amperometric electrode using admittance vectors. **2002**, 521, 61-71		4
987	Current research activity in biosensors. **2003**, 377, 446-68		227
986	Dinuclear versus mononuclear ruthenium(II) and osmium(II) complexes as potent mediators of glucose oxidase; crystal structure of [OsCl(4,4'-bpy)(bpy)2]BF4. **2003**, 8, 815-22		7
985	Layer-by-layer assembly of 1,4-diaminoanthraquinone and glucose oxidase. **2003**, 77, 390-396		25
984	The correlation of the complex dielectric constant and blood glucose at low frequency. *Biosensors and Bioelectronics*, **2003**, 19, 321-4	11.8	60
983	A theoretical study of the dioxygen activation by glucose oxidase and copper amine oxidase. **2003**, 1647, 173-8		31
982	Bleaching Agents. **2003**,		1
981	. **2003**,		64
980	TRANSITION METAL CHEMISTRY OF GLUCOSE OXIDASE, HORSERADISH PEROXIDASE, AND RELATED ENZYMES. **2004**, 55, 201-269		32
979	Production of Penicillium funiculosum 433 Glucose Oxidase and Its Properties. **2004**, 40, 25-29		28
978	The chemical mechanism of action of glucose oxidase from Aspergillus niger. **2004**, 260, 69-83		73
977	Assay for glucose oxidase from Aspergillus niger and Penicillium amagasakiense by Fourier transform infrared spectroscopy. **2004**, 333, 320-7		33
976	Immobilization of glucose oxidase onto electrochemically prepared poly(aniline-co-fluoroaniline) films. **2004**, 91, 3999-4006		28

975	Glucose Biosensor Based on Multi-Walled Carbon Nanotube Modified Glassy Carbon Electrode. **2004**, 16, 1697-1703		50
974	Highly Sensitive Amperometric Glucose Biosensor Based on Glassy Carbon Electrode with Copper/Palladium Coating. **2004**, 16, 1806-1813		23
973	Comparisons of platinum, gold, palladium and glassy carbon as electrode materials in the design of biosensors for glutamate. *Biosensors and Bioelectronics*, **2004**, 19, 1521-8	11.8	111
972	Improvement of homogeneity of analytical biodevices by gene manipulation. **2004**, 76, 632-8		18
971	Glucose sensor based on glucose oxidase immobilized by zirconium phosphate. **2004**, 20, 1635-8		12
970	The Influence of Halide and Nitrate Ions on Glucose Assay Using a Glucose Electrode. **2005**, 154-161		
969	Glucose biosensor based on self-assembled gold nanoparticles and double-layer 2d-network (3-mercaptopropyl)-trimethoxysilane polymer onto gold substrate. **2005**, 104, 191-198		58
968	A novel, disposable, screen-printed amperometric biosensor for glucose in serum fabricated using a water-based carbon ink. *Biosensors and Bioelectronics*, **2005**, 21, 712-8	11.8	86
967	Amperometric, screen-printed, glucose biosensor for analysis of human plasma samples using a biocomposite water-based carbon ink incorporating glucose oxidase. **2005**, 347, 17-23		67
966	Affinity chromatography with monolithic capillary columns. II. Polymethacrylate monoliths with immobilized lectins for the separation of glycoconjugates by nano-liquid affinity chromatography. **2005**, 1079, 236-45		81
965	Dynamic organization of mixed Langmuir films of glucose oxidase and stearylamine at the air-water interface. **2005**, 45, 200-8		10
964	Molecular dimensions of dried glucose oxidase on a Au(1 1 1) surface studied by dynamic mode scanning force microscopy. **2005**, 50, 4861-4867		20
963	Achieving Direct Electrical Connection to Glucose Oxidase Using Aligned Single Walled Carbon Nanotube Arrays. **2005**, 17, 38-46		273
962	. **2005**,		114
961	Enzyme-immobilized SiO2Si electrode: Fast interfacial electron transfer with preserved enzymatic activity. **2005**, 87, 253901		10
960	Bioactive Sol-Gel Hybrids. **2005**, 387-404		3
959	Applications of hybrid organicinorganic nanocomposites. **2005**, 15, 3559		2121
958	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. **2005**, 119, 70-5		235

957	Redox mediation and photomechanical oscillations involving photosensitive cyclometalated Ru(II) complexes, glucose oxidase, and peroxidase. **2005**, 77, 1132-9		31
956	Preparing catalytic surfaces for sensing applications by immobilizing enzymes via hydrophobin layers. **2005**, 77, 1622-30		62
955	Enzyme-electropolymer-based amperometric biosensors: an innovative platform for time-temperature integrators. **2005**, 53, 8866-73		13
954	Glucose oxidase from Aspergillus niger: the mechanism of action with molecular oxygen, quinones, and one-electron acceptors. **2005**, 37, 731-50		184
953	Molecular Optobioelectronics. **2005**, 309-338		11
952	Occurrence and biocatalytic potential of carbohydrate oxidases. **2006**, 60, 17-54		47
951	Designing an enzymatic oscillator: bistability and feedback controlled oscillations with glucose oxidase in a continuous flow stirred tank reactor. **2006**, 125, 194515		30
950	Microcapsules as Smart Tattoo Glucose Sensors: Engineering Systems with Enzymes and Glucose-Binding Sensing Elements. **2006**, 131-163		11
949	Preparation of a very stable immobilized biocatalyst of glucose oxidase from Aspergillus niger. **2006**, 121, 284-9		70
948	Electrochemical Biosensors. **2006**,		
947	Structure and thickness dependence of "molecular wiring" in nanostructured enzyme multilayers. **2006**, 78, 399-407		57
946	Development of a respirometric biochip for embryo assessment. **2006**, 6, 1438-44		18
945	Immobilization of extracellular glucose oxidase from Penicillium funiculosum 46.1 on gels of aluminum or zinc hydroxides. **2006**, 42, 138-144		1
944	Isolation and characterization of extracellular glucose oxidase from Penicillium adametzii LF F-2044.1. **2006**, 42, 304-311		8
943	Cooxidation of phenol and 4-aminoantipyrin, catalyzed by polymers and copolymers of horseradish root peroxidase and Penicillium funiculosum 46.1 glucose oxidase. **2006**, 42, 399-408		7
942	Characterization of an organic phase peroxide biosensor based on horseradish peroxidase immobilized in Eastman AQ. *Biosensors and Bioelectronics*, **2006**, 22, 116-23	11.8	12
941	Enzymatic synthesis of aldonic acids. **2006**, 341, 2290-2		17
940	1,4-Benzoquinone-based electrophoretic assay for glucose oxidase. **2006**, 359, 35-9		13

939	Electrochemical non-enzymatic glucose sensors. **2006**, 556, 46-57	891
938	Organoclay-enzyme film electrodes. **2006**, 578, 145-55	43
937	A novel method for glucose determination based on electrochemical impedance spectroscopy using glucose oxidase self-assembled biosensor. **2006**, 69, 201-8	142
936	New approach to the immobilization of glucose oxidase on non-porous silica microspheres functionalized by (3-aminopropyl)trimethoxysilane (APTMS). **2006**, 53, 225-32	39
935	Preserved enzymatic activity of glucose oxidase immobilized on an unmodified electrode. **2006**, 8, 987-992	40
934	Glucose oxidase anode for biofuel cell based on direct electron transfer. **2006**, 8, 1204-1210	245
933	Expression of Penicillium variabile P16 glucose oxidase gene in Pichia pastoris and characterization of the recombinant enzyme. **2006**, 39, 1230-1235	20
932	Electrical wiring of pyranose oxidase with osmium redox polymers. **2006**, 113, 684-691	57
931	Amperometric glucose biosensor based on screen-printed carbon electrodes mediated with hexacyanoferrate□hitosan oligomers mixture. **2006**, 117, 236-243	40
930	Probing Aspergillus niger glucose oxidase with pentacyanoferrate(III) aza- and thia-complexes. **2006**, 100, 1614-22	11
929	Preparation of resistive-type glucose sensor by layer-by-layer technique and their properties. **2006**, 14, 251-254	3
928	Enantioselectivity of resolved □and □orthoruthenated 2-phenylpyridine complexes [Ru(o-C6H4-2-py)(LL)2]PF6 (LL=bpy and phen) toward glucose oxidase. **2006**, 41, 110-116	10
927	A Homogenous Assay of FAD Using a Binding Between Apo-Glucose Oxidase and FAD Labeled with an Electroactive Compound. **2006**, 18, 1001-1006	8
926	Affinity monolithic capillary columns for glycomics/proteomics: 1. Polymethacrylate monoliths with immobilized lectins for glycoprotein separation by affinity capillary electrochromatography and affinity nano-liquid chromatography in either a single column or columns coupled in series. **2006**,	84
925	Resonance Raman spectra of the neutral and anionic radical semiquinones of flavin adenine dinucleotide in glucose oxidase revisited. **2006**, 37, 822-829	8
924	Novel FAD-dependent glucose dehydrogenase for a dioxygen-insensitive glucose biosensor. **2006**, 70, 654-9	139
923	Fronts and pulses in an enzymatic reaction catalyzed by glucose oxidase. **2007**, 104, 6992-7	32
922	Development of an Amperometric Biosensor and Performance Studies with a Minimum Background Current. **2007**, 35, 659-674	1

921	Poly(o-anisidine) films on mild steel: electrochemical synthesis and biosensor application. **2007**, 40, 2555-2562		7
920	An approach to in situ detection of hydrogen peroxide: application of a commercial needle-type electrode. **2007**, 28, 1533-42		6
919	Various applications of immobilized glucose oxidase and polyphenol oxidase in a conducting polymer matrix. **2007**, 41, 49-55		19
918	Incorporation of glucose oxidase into Langmuir-Blodgett films based on Prussian blue applied to amperometric glucose biosensor. **2007**, 23, 4675-81		74
917	Nanowiring of the Catalytic Site of Novel Molecular Enzyme–Metal Hybrids to Electrodes. **2007**, 111, 5766-5769		18
916	Molecular "wiring" glucose oxidase in supramolecular architecture. **2007**, 8, 2063-71		40
915	Preserved enzymatic activity of glucose oxidase immobilized on unmodified electrodes for glucose detection. *Biosensors and Bioelectronics*, **2007**, 22, 2158-64	11.8	26
914	Amperometric glucose biosensor based on multilayer films via layer-by-layer self-assembly of multi-wall carbon nanotubes, gold nanoparticles and glucose oxidase on the Pt electrode. *Biosensors and Bioelectronics*, **2007**, 22, 2854-60	11.8	177
913	A sensitive nonenzymatic glucose sensor in alkaline media with a copper nanocluster/multiwall carbon nanotube-modified glassy carbon electrode. **2007**, 363, 143-50		479
912	Multilayer membranes via layer-by-layer deposition of glucose oxidase and Au nanoparticles on a Pt electrode for glucose sensing. **2007**, 27, 890-894		21
911	Low potential detection of glucose at carbon nanotube modified glassy carbon electrode with electropolymerized poly(toluidine blue O) film. **2007**, 53, 278-284		45
910	Experimental characterization of proteins immobilized on Si-based materials. **2007**, 84, 468-473		20
909	Electrochemical biosensors based on colloidal gold–carbon nanotubes composite electrodes. **2007**, 603, 1-7		117
908	Electrochemical characterization of directly immobilized glucose oxidase on gold mercaptosuccinic anhydride self-assembled monolayer. **2007**, 126, 415-423		20
907	Layer uniformity in glucose oxidase immobilization on SiO2 surfaces. **2007**, 253, 9116-9123		38
906	Catalytic activity of oxidases hosted in lipidic cubic phases on electrodes. **2007**, 71, 8-14		28
905	Design and construction of a low cost single-supply embedded telemetry system for amperometric biosensor applications. **2007**, 122, 118-126		39
904	Enzymatically induced formation of neodymium hexacyanoferrate nanoparticles on the glucose oxidase/chitosan modified glass carbon electrode for the detection of glucose. *Biosensors and Bioelectronics*, **2008**, 24, 429-34	11.8	34

903	Pyranose oxidase biosensor based on carbon nanotube (CNT)-modified carbon paste electrodes. **2008**, 132, 159-165		43
902	Direct electrochemistry of glucose oxidase on screen-printed electrodes through one-step enzyme immobilization process with silica sol□gel/polyvinyl alcohol hybrid film. **2008**, 133, 555-560		68
901	The use of copper(II) oxide nanorod bundles for the non-enzymatic voltammetric sensing of carbohydrates and hydrogen peroxide. **2008**, 135, 230-235		167
900	Discovery and characterization of a putrescine oxidase from Rhodococcus erythropolis NCIMB 11540. **2008**, 78, 455-63		34
899	Glucose oxidase: natural occurrence, function, properties and industrial applications. **2008**, 78, 927-38		326
898	Preparation of carbon nanotubes supported platinum nanoparticles by an organic colloidal process for nonenzymatic glucose sensing. **2008**, 163, 305-311		70
897	Entrapment of enzymes and carbon nanotubes in biologically synthesized silica: glucose oxidase-catalyzed direct electron transfer. **2008**, 4, 357-64		163
896	Electrocatalytic Oxidation of Some Carbohydrates by Nickel/Poly(o-Aminophenol) Modified Carbon Paste Electrode. **2008**, 20, 1825-1830		42
895	A sensitive nonenzymatic hydrogen peroxide sensor based on DNA□Cu2+ complex electrodeposition onto glassy carbon electrode. **2008**, 133, 381-386		27
894	Automatic optimization of experimental conditions for fast evaluation of diagnostic tests using ubiquitous instrumentation. **2008**, 134, 199-205		6
893	Enzyme-free glucose sensor based on a three-dimensional gold film electrode. **2008**, 134, 471-476		165
892	Coulometric bioelectrocatalytic reactions based on NAD-dependent dehydrogenases in tricarboxylic acid cycle. **2008**, 54, 328-333		17
891	Preparation of an enzymatic glucose sensor based on hybrid organic□inorganic Langmuir□Blodgett films: Adsorption of glucose oxidase into positively charged molecular layers. **2008**, 321, 47-51		24
890	A novel nanobiocomposite based glucose biosensor using neutral red functionalized carbon nanotubes. *Biosensors and Bioelectronics*, **2008**, 23, 1404-11	11.8	95
889	Pt-Pb nanowire array electrode for enzyme-free glucose detection. *Biosensors and Bioelectronics*, **2008**, 24, 579-85	11.8	180
888	Extracting kinetic parameters for homogeneous [Os(bpy)2ClPyCOOH]+ mediated enzyme reactions from cyclic voltammetry and simulations. **2008**, 74, 201-9		33
887	Nonenzymatic electrochemical glucose sensor based on MnO2/MWNTs nanocomposite. **2008**, 10, 1268-1271		341
886	Nanotechnology-Enabled Sensors. **2008**,		51

885	XPS and AFM characterization of the enzyme glucose oxidase immobilized on SiO(2) surfaces. **2008**, 24, 1965-72	67
884	Nonenzymatic electrochemical glucose sensor based on nanoporous PtPb networks. **2008**, 80, 997-1004	453
883	Easy access to bio-inspired osmium(II) complexes through electrophilic intramolecular C(sp2)-H bond cyclometalation. **2008**, 47, 4988-95	21
882	CuS nanotubes for ultrasensitive nonenzymatic glucose sensors. **2008**, 5945-7	129
881	Chemical and biological sensors based on electroactive inorganic polycrystals. **2008**, 411-439	7
880	Enzymatically attenuated in situ release of silver ions to combat bacterial biofilms: a feasibility study. **2008**, 18, 25-29	2
879	Conformational Mobility of GOx Coenzyme Complex on Single-Wall Carbon Nanotubes. **2008**, 8, 8453-8462	13
878	Organic Nanotechnology Enabled Sensors. **2008**, 371-481	
877	Fluorescence-Based Glucose Biosensors. **2008**, 319-352	
876	Enzymology. **2008**,	
875	Fluorescence-Based Glucose Sensors. **2009**, 269-316	0
874	Biotelemetric monitoring of brain neurochemistry in conscious rats using microsensors and biosensors. **2009**, 9, 2511-23	44
873	Feasibility studies on si-based biosensors. **2009**, 9, 3469-90	15
872	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on glassy carbon electrode modified by Nafion and ordered mesoporous silica-SBA-15. **2009**, 58, 194-198	37
871	Lipase entrapment in a zirconia matrix: Sol–gel synthesis and catalytic properties. **2009**, 59, 116-120	38
870	Glucose oxidase--an overview. **2009**, 27, 489-501	785
869	The preparation and enzyme immobilization of hydrophobic polysiloxane supports. **2009**, 9, 361-8	18
868	Amyloid fibrils as a nanoscaffold for enzyme immobilization. **2010**, 26, 93-100	47

867	Stimulation of glucose oxidase with white linearly polarized light. **2010**, 26, 393-6		
866	Amperometric glucose sensor based on 3D ordered nickel–palladium nanomaterial supported by silicon MCP array. **2009**, 141, 338-342		48
865	Electrochemistry of riboflavin-binding protein and its interaction with riboflavin. **2009**, 76, 70-5		20
864	AC-electrophoretic deposition of glucose oxidase. *Biosensors and Bioelectronics*, **2009**, 25, 191-7	11.8	51
863	A nano-Ni based ultrasensitive nonenzymatic electrochemical sensor for glucose: enhancing sensitivity through a nanowire array strategy. *Biosensors and Bioelectronics*, **2009**, 25, 218-23	11.8	334
862	Direct electron transfer and electrocatalysis of glucose oxidase immobilized on glassy carbon electrode modified with Nafion and mesoporous carbon FDU-15. **2009**, 54, 4626-4630		70
861	A bioconjugated polyglycerol dendrimer with glucose sensing properties. **2009**, 20, 473-9		11
860	An ultrasonic inactivation of Aspergillus niger glucose oxidase in aqueous solutions. **2009**, 45, 9-16		3
859	Layer-by-layer assemblies of chitosan/multi-wall carbon nanotubes and glucose oxidase for amperometric glucose biosensor applications. **2009**, 29, 346-349		45
858	Fabrication of a glucose sensor based on a novel nanocomposite electrode. *Biosensors and Bioelectronics*, **2009**, 24, 1655-60	11.8	262
857	Superior long-term stability of a glucose biosensor based on inserted barrel plating gold electrodes. *Biosensors and Bioelectronics*, **2009**, 25, 383-7	11.8	10
856	Gold nanoparticles integrated in a nanotube array for electrochemical detection of glucose. **2009**, 11, 216-219		141
855	Electrospun palladium (IV)-doped copper oxide composite nanofibers for non-enzymatic glucose sensors. **2009**, 11, 1811-1814		72
854	Sympathetic current oscillations at an enzyme electrode induced by potential oscillations at a Pt surface. **2009**, 11, 2328-2331		2
853	Gold nanowire array electrode for non-enzymatic voltammetric and amperometric glucose detection. **2009**, 142, 216-223		203
852	Comparative electrochemical behavior of glucose oxidase covalently immobilized on mono-, di- and tetra-carboxylic acid functional Au-thiol SAMs via anhydride-derivatization route. **2009**, 137, 195-204		14
851	Fabrication of microband glucose biosensors using a screen-printing water-based carbon ink and their application in serum analysis. *Biosensors and Bioelectronics*, **2009**, 24, 1246-52	11.8	35
850	Functionalized carbon nanotube-bienzyme biocomposite for amperometric sensing. **2009**, 47, 957-966		55

849	Reagentless enzymatic sensors based on carbon-paste electrodes containing ruthenium mediators for the on-line determination of glycerol. **2009**, 64, 404-409	6
848	Silver oxide nanowalls grown on Cu substrate as an enzymeless glucose sensor. **2009**, 1, 2829-34	98
847	Gold nanoparticles-induced enhancement of the analytical response of an electrochemical biosensor based on an organic-inorganic hybrid composite material. **2009**, 80, 797-802	32
846	Molecular mechanism for conformation mobility of the active center of glucose oxidase adsorbed on single wall carbon nanotubes. **2009**, 2009, 2739-43	
845	Stabilization of enzymes in silk films. **2009**, 10, 1032-42	140
844	Sensors Based on Nanostructured Materials. **2009**,	22
843	The GOX/CAT system: a novel enzymatic method to independently control hydrogen peroxide and hypoxia in cell culture. **2009**, 54, 121-35	48
842	Directed Metallization of Single-Enzyme Molecules With Preserved Enzymatic Activity. **2009**, 8, 95-99	6
841	Amperometric bienzyme glucose biosensor based on carbon nanotube modified electrode with electropolymerized poly(toluidine blue O) film. **2010**, 55, 7055-7060	33
840	Preparation and optimization of a bienzymic biosensor based on self-assembled monolayer modified gold electrode for alcohol and glucose detection. *Biosensors and Bioelectronics*, **2010**, 25, 1014-8 11.8	31
839	PtAu/C based bimetallic nanocomposites for non-enzymatic electrochemical glucose detection. **2010**, 150, 80-92	68
838	Gold particles supported on self-organized nanotubular TiO2 matrix as highly active catalysts for electrochemical oxidation of glucose. **2010**, 14, 1109-1115	47
837	Enzyme-free amperometric sensing of glucose using Cu-CuO nanowire composites. **2010**, 168, 87-92	122
836	Single step modification of copper electrode for the highly sensitive and selective non-enzymatic determination of glucose. **2010**, 169, 49-55	53
835	Preparation of grain size controlled boron-doped diamond thin films and their applications in selective detection of glucose in basic solutions. **2010**, 53, 1378-1384	12
834	Enzymatic oxidation and separation of various saccharides with immobilized glucose oxidase. **2010**, 162, 1669-77	7
833	Poly(phenylenediamine) film for the construction of glucose biosensors based on platinized glassy carbon electrode. **2010**, 40, 1997-2003	29
832	Nonenzymatic Electrochemical Glucose Sensor Based on Pt Nanoparticles/Mesoporous Carbon Matrix. **2010**, 22, 1901-1905	59

831	Voltammetric Determination of Glucose at Bismuth-Modified Mesoporous Platinum Microelectrodes. **2010**, 22, 1511-1518		19
830	Glucose Oxidase Catalyzed Self-Assembly of Bioelectroactive Gold Nanostructures. **2010**, 22, 784-792		16
829	Glucose-Responsive Bioinorganic Nanohybrid Membrane for Self-Regulated Insulin Release. **2010**, 20, 1404-1412		89
828	Electropolymerized Azines: A New Group of Electroactive Polymers. **2010**, 93-110		5
827	The application of the relaxation and simplex method to the analysis of data for glucose electrodes based on glucose oxidase immobilised in an osmium redox polymer. **2010**, 646, 24-32		25
826	Effects of Pt decoration on the electrocatalytic activity of nanoporous gold electrode toward glucose and its potential application for constructing a nonenzymatic glucose sensor. **2010**, 643, 39-45		93
825	Patterned growth of ZnO nanorods and enzyme immobilization toward the fabrication of glucose sensors. **2010**, 42, 2880-2883		20
824	Preparation and characterization of copper nanoparticles/zinc oxide composite modified electrode and its application to glucose sensing. **2010**, 30, 86-91		76
823	Electrodeposited MnO2/Au composite film with improved electrocatalytic activity for oxidation of glucose and hydrogen peroxide. **2010**, 55, 3471-3476		55
822	In situ growth of copper nanoparticles on multiwalled carbon nanotubes and their application as non-enzymatic glucose sensor materials. **2010**, 55, 3734-3740		190
821	The non-enzymatic determination of glucose using an electrolytically fabricated nickel microparticle modified boron-doped diamond electrode or nickel foil electrode. **2010**, 147, 642-652		149
820	A novel sensitive nonenzymatic glucose sensor based on perovskite LaNi0.5Ti0.5O3-modified carbon paste electrode. **2010**, 151, 65-70		42
819	An enzymatic signal amplification system for calorimetric studies of cellobiohydrolases. **2010**, 404, 140-8		24
818	Enhancing the longevity of microparticle-based glucose sensors towards 1 month continuous operation. *Biosensors and Bioelectronics*, **2010**, 25, 1075-81	11.8	29
817	High-performance glucose amperometric biosensor based on magnetic polymeric bionanocomposites. *Biosensors and Bioelectronics*, **2010**, 25, 1277-82	11.8	33
816	An amperometric non-enzymatic glucose sensor by electrodepositing copper nanocubes onto vertically well-aligned multi-walled carbon nanotube arrays. *Biosensors and Bioelectronics*, **2010**, 26, 279-84	11.8	175
815	Development of highly sensitive non-enzymatic sensor for the selective determination of glucose and fabrication of a working model. **2010**, 55, 1612-1618		68
814	. **2010**,		31

813	Characterization of Pt and Pt-Alloy Catalysts for the Oxidation of Glucose. **2010**,	
812	Design and Construction of a Distributed Sensor NET for Biotelemetric Monitoring of Brain Energetic Metabolism Using Microsensors and Biosensors. **2010**,	1
811	Au?Pt Nanomaterials and Enzymatic Catalysts for Biofuel Cell Applications. **2010**,	
810	Utilization of ram horn peptone in the production of glucose oxidase by a local isolate Aspergillus niger OC-3. **2011**, 41, 73-83	2
809	Recent Advances in Enzymatic Fuel Cells: Experiments and Modeling. **2010**, 3, 803-846	158
808	Electrochemical glucose sensors--developments using electrostatic assembly and carbon nanotubes for biosensor construction. **2010**, 10, 8248-74	105
807	Discrete and active enzyme nanoarrays on DNA origami scaffolds purified by affinity tag separation. **2010**, 132, 9937-9	70
806	Amperometric Detection of Glucose Using a Conjugated Polyelectrolyte Complex with Single-Walled Carbon Nanotubes. **2010**, 43, 10376-10381	60
805	(110)-exposed gold nanocoral electrode as low onset potential selective glucose sensor. **2010**, 2, 2773-80	117
804	Improved enzyme immobilization on an ionic-complementary peptide-modified electrode for biomolecular sensing. **2010**, 26, 2176-80	8
803	The influence of external factors on the operational stability of the biosensor response. **2010**, 81, 1245-9	17
802	An enzyme-free highly glucose-specific assay using self-assembled aminobenzene boronic acid upon polyelectrolytes electrospun nanofibers-mat. **2010**, 82, 1725-32	39
801	Dual-function nanofilm coatings with diffusion control and protein resistance. **2010**, 2, 991-7	16
800	Engineering of glucose oxidase for direct electron transfer via site-specific gold nanoparticle conjugation. **2011**, 133, 19262-5	209
799	Poly(2-hydroxyethyl methacrylate) for enzyme immobilization: impact on activity and stability of horseradish peroxidase. **2011**, 12, 1822-30	51
798	Mediatorless high-power glucose biofuel cells based on compressed carbon nanotube-enzyme electrodes. **2011**, 2, 370	457
797	Simple and non toxic enzyme immobilization onto platinum electrodes for detection of metabolic molecules in the rat brain using silicon micro-needles. **2011**, 25, 1361-1364	1
796	Nano-Biosensor Development for Biomedical and Environmental Measurements. **2011**, 279-292	2

795	NanoBiosensing. **2011**,		26
794	A sensitive enzymeless hydrogen-peroxide sensor based on epitaxially-grown Fe3O4 thin film. **2011**, 708, 44-51		36
793	Applications of advanced hybrid organic-inorganic nanomaterials: from laboratory to market. **2011**, 40, 696-753		1060
792	Mimicking nature's noses: from receptor deorphaning to olfactory biosensing. **2011**, 93, 270-96		95
791	Fabrication of Biosensors. **2011**, 35-60		1
790	New directions in screen printed electroanalytical sensors: an overview of recent developments. **2011**, 136, 1067-76		342
789	Sol-gel technology in enzymatic electrochemical biosensors for clinical analysis. **2011**,		2
788	Binding of the Same Analyte (Glucose) to Different Biosensor Surfaces: A Fractal Analysis of the Kinetics. **2011**, 169-196		
787	Binding of the Same Analyte to Different Biosensor Surfaces. **2011**, 129-168		
786	A glucose sensor fabricated by piezoelectric inkjet printing of conducting polymers and bienzymes. **2011**, 27, 375		49
785	Preparation of nickel oxide and carbon nanosheet array and its application in glucose sensing. **2011**, 184, 2738-2743		43
784	Ultrasensitive electrochemical immunosensor employing glucose oxidase catalyzed deposition of gold nanoparticles for signal amplification. *Biosensors and Bioelectronics*, **2011**, 27, 53-7	11.8	18
783	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. *Biosensors and Bioelectronics*, **2011**, 27, 125-31	11.8	167
782	Multifunctional carbon nanotubes for direct electrochemistry of glucose oxidase and glucose bioassay. *Biosensors and Bioelectronics*, **2011**, 30, 107-11	11.8	134
781	Dynamics of the reaction glucose-catalase-glucose oxidase-hydrogen peroxide. **2011**, 85, 2322-2326		2
780	Study of dynamics of glucose-glucose oxidase-ferricyanide reaction. **2011**, 85, 2305-2309		1
779	Microfluidic devices and true-color sensor as platform for glucose oxidase and laccase assays. **2011**, 11, 182-188		13
778	FT-IR microscopy characterization of sol-gel layers prior and after glucose oxidase immobilization for biosensing applications. **2011**, 57, 204-211		35

777	Nonenzymatic glucose sensor based on a glassy carbon electrode modified with chains of platinum hollow nanoparticles and porous gold nanoparticles in a chitosan membrane. **2011**, 172, 163-169		36
776	A novel anti-interference and pH-modulation device: application to enzyme-free glucose detection. **2011**, 173, 19-26		
775	Development of Cu2O/Carbon Vulcan XC-72 as non-enzymatic sensor for glucose determination. *Biosensors and Bioelectronics*, **2011**, 26, 3542-8	11.8	127
774	A coral-like macroporous gold–platinum hybrid 3D electrode for enzyme-free glucose detection. **2011**, 155, 134-139		40
773	Study of an amperometric glucose sensor based on PdNi/SiNW electrode. **2011**, 155, 592-597		72
772	Characterization and engineering of a novel pyrroloquinoline quinone dependent glucose dehydrogenase from Sorangium cellulosum So ce56. **2011**, 47, 253-61		4
771	Nonenzymatic Electrochemical Glucose Sensor Based on Novel Copper Film. **2011**, 23, 395-401		68
770	Electrochemical Patterning of Palladium Nanoparticles on a Single-Walled Carbon Nanotube Platform and Its Application to Glucose Detection. **2011**, 23, 2087-2093		11
769	Glucose Biosensor Using Glucose Oxidase and Electrospun Mn2O3-Ag Nanofibers. **2011**, 23, 1912-1920		38
768	Enzymatically amplified electrochemical detection for lipopolysaccharide using ferrocene-attached polymyxin B and its analogue. *Biosensors and Bioelectronics*, **2011**, 26, 2080-4	11.8	19
767	Nonenzymatic glucose sensor based on over-oxidized polypyrrole modified Pd/Si microchannel plate electrode. *Biosensors and Bioelectronics*, **2011**, 26, 2579-84	11.8	23
766	Nonenzymatic amperometric response of glucose on a nanoporous gold film electrode fabricated by a rapid and simple electrochemical method. *Biosensors and Bioelectronics*, **2011**, 26, 3555-61	11.8	146
765	Covalent enzyme immobilization by poly(ethylene glycol) diglycidyl ether (PEGDE) for microelectrode biosensor preparation. *Biosensors and Bioelectronics*, **2011**, 26, 3993-4000	11.8	101
764	An enzyme-free quartz crystal microbalance biosensor for sensitive glucose detection in biological fluids based on glucose/dextran displacement approach. **2011**, 686, 144-9		39
763	Development of an on-column affinity smart polymer gel glucose sensor. **2011**, 695, 105-12		14
762	Microbial electricity generation of diversified carbonaceous electrodes under variable mediators. **2011**, 80, 99-104		25
761	A low-potential, H2O2-assisted electrodeposition of cobalt oxide/hydroxide nanostructures onto vertically-aligned multi-walled carbon nanotube arrays for glucose sensing. **2011**, 56, 5538-5544		51
760	Thermostability of glucose oxidase in silica gel obtained by sol-gel method and in solution studied by fluorimetric method. **2011**, 103, 22-8		9

759	Recombinant glucose oxidase from Penicillium amagasakiense for efficient bioelectrochemical applications in physiological conditions. **2011**, 151, 122-9	40
758	Surface modification of electrospun spherical activated carbon for a high-performance biosensor electrode. **2011**, 158, 151-158	15
757	New Developments and Applications in Sensing Technology. **2011**,	5
756	Preparation and Characterization of Electrochemical Glucose Sensor Based on Nickel Electrodes Supported by Silicon Microchannel Plates. **2011**, 138-139, 1126-1131	
755	Nanostructured Mimic Enzymes for Biocatalysis and Biosensing. **2011**, 85-109	2
754	Long-term in vivo glucose monitoring using fluorescent hydrogel fibers. **2011**, 108, 13399-403	199
753	FEATURES. **2012**, 16, 27-59	
752	An Improved Sensitivity Non-Enzymatic Glucose Sensor Based on a Nano-Gold Modified Ag Electrode. **2012**, 503, 427-431	3
751	Hydrogen Peroxide in Biocatalysis. A Dangerous Liaison. **2012**, 16, 2652-2672	103
750	A Non-Enzymatic Glucose Sensor Based on the Use of Gold Micropillar Array Electrodes. **2012**, 159, F134-F139	36
749	Rapid and High-capacity Adsorption of Glucose Oxidase on Amine-functionalized Mesoporous Silica SBA-15 Platelets. **2012**, 41, 1512-1514	4
748	Promotion effect by ε-poly-L-lysine on the enzymatic reaction of glucose oxidase with ferricyanide ion as an oxidant. **2012**, 28, 657-60	17
747	Functional Nanoparticle-Based Bioelectronic Devices. **2012**, 145-180	1
746	Design and Development of In Vivo Sensor Systems: The Long and Tortured Road to a Self-Contained, Implantable Glucose Sensor for Diabetes Management. **2012**, 213-238	0
745	Protein-Directed In Situ Synthesis of Gold Nanoparticles on Reduced Graphene Oxide Modified Electrode for Nonenzymatic Glucose Sensing. **2012**, 24, 2348-2353	16
744	Quantifying protein adsorption and function at nanostructured materials: enzymatic activity of glucose oxidase at GLAD structured electrodes. **2012**, 28, 11106-14	18
743	Diffusion-free mediator based miniature biofuel cell anode fabricated on a carbon-MEMS electrode. **2012**, 28, 14055-64	15
742	Nanobiocomposite Electrochemical Biosensor Utilizing Synergic Action of Neutral Red Functionalized Carbon Nanotubes. **2012**, 4, 220-227	11

741	Microsphere erosion in outer hydrogel membranes creating macroscopic porosity to counter biofouling-induced sensor degradation. **2012**, 84, 8837-8845	24
740	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. **2012**, 12, 5996-6022	368
739	A simple route for preparation of highly stable CuO nanoparticles for nonenzymatic glucose detection. **2012**, 2, 813	77
738	Nanoporous Gold as a Platform for a Building Block Catalyst. **2012**, 2, 2199-2215	93
737	A novel non-enzymatic glucose sensor based on Cu nanoparticle modified graphene sheets electrode. **2012**, 709, 47-53	436
736	Nonenzymatic glucose sensor based on CuO microfibers composed of CuO nanoparticles. **2012**, 723, 39-44	76
735	A novel nonenzymatic sensor based on LaNi0.6Co0.4O3 modified electrode for hydrogen peroxide and glucose. **2012**, 745, 112-7	42
734	The effects of carbon nanotube addition and oxyfluorination on the glucose-sensing capabilities of glucose oxidase-coated carbon fiber electrodes. **2012**, 258, 2219-2225	15
733	Amperometric glucose sensor based on enhanced catalytic reduction of oxygen using glucose oxidase adsorbed onto core-shell Fe3O4@silica@Au magnetic nanoparticles. **2012**, 32, 1640-7	37
732	Effects of carbon structure orientation on the performance of glucose sensors fabricated from electrospun carbon fibers. **2012**, 358, 544-549	11
731	Electron-transfer studies with a new flavin adenine dinucleotide dependent glucose dehydrogenase and osmium polymers of different redox potentials. **2012**, 84, 334-41	72
730	Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing. **2012**, 12, 4860-9	69
729	Compact, power-efficient architectures using microvalves and microsensors, for intrathecal, insulin, and other drug delivery systems. **2012**, 64, 1639-49	19
728	Nonenzymatic amperometric determination of glucose by CuO nanocubes-graphene nanocomposite modified electrode. **2012**, 88, 156-63	177
727	Molecular simulation of flavin adenine dinucleotide immobilized on charged single-walled carbon nanotubes for biosensor applications. **2012**, 33, 8757-70	11
726	Mesoporous silica-based materials for use in electrochemical enzyme nanobiosensors. **2012**, 40, 106-118	63
725	Enzymes and Enzymatic Sensors. **2012**, 28-49	1
724	Nano-Biotechnology for Biomedical and Diagnostic Research. **2012**,	2

723	Control of enzyme-solid interactions via chemical modification. **2012**, 28, 11881-9		23
722	Amperometric Biosensors. **2012**, 1-83		28
721	Poly(lactic acid)/Carbon Nanotube Fibers as Novel Platforms for Glucose Biosensors. **2012**, 2, 70-82		28
720	Conjugated polyelectrolyte complexes with single-walled carbon nanotubes for amperometric detection of glucose with inherent anti-interference properties. **2012**, 22, 9147		20
719	Serum creatinine detection by a conducting-polymer-based electrochemical sensor to identify allograft dysfunction. **2012**, 84, 7933-7		37
718	Sol□el Processing of Ceramics. **2012**, 121-140		
717	Mathematical Modeling Of An Amperometric Glucose Sensor: The Effect Of Membrane Permeability And Selectivity On Performance. **2012**,		1
716	Nickel/Poly(o-aminophenol) Film Prepared in Presence of Sodium Dodecyl Sulfate: Application for Electrocatalytic Oxidation of Carbohydrates. **2012**, 59, 788-792		1
715	Engineering the interface between glucose oxidase and nanoparticles. **2012**, 28, 5190-200		38
714	Materials for diabetes therapeutics. **2012**, 1, 267-84		111
713	Integrated biocatalytic process for trehalose production and separation from rice hydrolysate using a bioreactor system. **2012**, 134, 1745-53		10
712	Biofunctionalized nanoporous gold for electrochemical biosensors. **2012**, 67, 1-5		56
711	A highly sensitive non-enzymatic glucose sensor based on nickel and multi-walled carbon nanotubes nanohybrid films fabricated by one-step co-electrodeposition in ionic liquids. **2012**, 65, 64-69		149
710	Fabrication of a highly sensitive glucose electrochemical sensor based on immobilization of Ni(II)□yromellitic acid and bimetallic Au□t inorganic□rganic hybrid nanocomposite onto carbon nanotube modified glassy carbon electrode. **2012**, 76, 300-311		18
709	Ni nanoparticles decorated titania nanotube arrays as efficient nonenzymatic glucose sensor. **2012**, 76, 512-517		103
708	Amperometric glucose biosensor utilizing FAD-dependent glucose dehydrogenase immobilized on nanocomposite electrode. **2012**, 50, 227-32		42
707	Nonenzymatic continuous glucose monitoring in human whole blood using electrified nanoporous Pt. *Biosensors and Bioelectronics*, **2012**, 31, 284-91	11.8	65
706	Single-layer CVD-grown graphene decorated with metal nanoparticles as a promising biosensing platform. *Biosensors and Bioelectronics*, **2012**, 33, 56-9	11.8	55

705	Colorimetric detection of sugars based on gold nanoparticle formation. **2012**, 161, 366-371		41
704	Glucose oxidase-modified carbon-felt-reactor coupled with peroxidase-modified carbon-felt-detector for amperometric flow determination of glucose. **2012**, 32, 432-439		14
703	Glucose sensor using periodic nanostructured hybrid 1D Au/ZnO arrays. **2012**, 32, 1288-1292		10
702	Effects of oxyfluorination on a multi-walled carbon nanotube electrode for a high-performance glucose sensor. **2012**, 18, 674-679		20
701	Characterization of different FAD-dependent glucose dehydrogenases for possible use in glucose-based biosensors and biofuel cells. **2012**, 402, 2069-77		85
700	A highly sensitive nonenzymatic glucose sensor based on CuO nanowires. **2012**, 176, 411-417		81
699	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. **2013**, 405, 3823-30		31
698	A high-performance glucose biosensor using covalently immobilised glucose oxidase on a poly(2,6-diaminopyridine)/carbon nanotube electrode. **2013**, 116, 801-8		33
697	In situ attachment of cupric oxide nanoparticles to mesoporous carbons for sensitive amperometric non-enzymatic sensing of glucose. **2013**, 178, 125-131		22
696	Nanoporous gold supported cobalt oxide microelectrodes as high-performance electrochemical biosensors. **2013**, 4, 2169		227
695	The microstructure and electrochemical properties of boron-doped nanocrystalline diamond film electrodes and their application in non-enzymatic glucose detection. **2013**, 43, 911-917		11
694	Reusable glucose sensing using carbon nanotube-based self-assembly. **2013**, 5, 9231-7		21
693	A new insight into electrochemical microRNA detection: a molecular caliper, p19 protein. *Biosensors and Bioelectronics*, **2013**, 48, 165-71	11.8	54
692	Electrocatalytical properties presented by Cu/Ni alloy modified electrodes toward the oxidation of glucose. **2013**, 17, 1333-1338		25
691	A high performance non-enzymatic glucose sensor based on nickel hydroxide modified nitrogen-incorporated nanodiamonds. **2013**, 138, 3201-8		55
690	A facile strategy for the synthesis of hierarchical CuO nanourchins and their application as non-enzymatic glucose sensors. **2013**, 3, 13712		33
689	High performance enzyme fuel cells using a genetically expressed FAD-dependent glucose dehydrogenase β-subunit of Burkholderia cepacia immobilized in a carbon nanotube electrode for low glucose conditions. **2013**, 15, 9508-12		17
688	Electron transfer in proteins: theory, applications and future perspectives. **2013**, 15, 15271-85		27

687	Thermal inactivation and conformational lock studies on glucose oxidase. **2013**, 24, 1105-1110	6
686	Implanted biofuel cells operating in vivo methods, applications and perspectives Feature article. **2013**, 6, 2791	169
685	Amperometric nonenzymatic determination of glucose based on a glassy carbon electrode modified with nickel(II) oxides and graphene. **2013**, 180, 477-483	72
684	2-Phenylpyridine ruthenacycles as effectors of glucose oxidase activity: inhibition by Ru(II) and activation by Ru(III). **2013**, 18, 547-55	6
683	Optimization of the multianalyte determination with biased biosensor response. **2013**, 126, 108-116	9
682	Biosensor integration on Si-based devices: Feasibility studies and examples. **2013**, 179, 240-251	31
681	Glycosylation site-targeted PEGylation of glucose oxidase retains native enzymatic activity. **2013**, 52, 279-85	15
680	Single-enzyme nanoparticles based urea biosensor. **2013**, 188, 313-317	21
679	Networked enzymatic logic gates with filtering: new theoretical modeling expressions and their experimental application. **2013**, 117, 14928-39	40
678	Simultaneous utilization of glucose and gluconate in Penicillium chrysogenum during overflow metabolism. **2013**, 110, 3235-43	13
677	Shape and size control of Cu nanoparticles by tailoring the surface morphologies of TiN-coated electrodes for biosensing applications. **2013**, 29, 16025-33	23
676	Specificity of glucose oxidase from Penicillium funiculosum 46.1 towards some redox mediators. **2013**, 171, 1739-49	10
675	An enzyme free potentiometric detection of glucose based on a conducting polymer poly (3-aminophenyl boronic acid-co-3-octylthiophene). **2013**, 90, 358-365	51
674	Glucose Sensing by Glucose Oxidase/PEDOT Thin Film Electrode. **2013**, 580, 22-28	3
673	Non-enzymatic Glucose Sensor Based on Palladium Coated Nanoporous Gold Film Electrode. **2013**, 66, 1097	16
672	A glucose biosensor based on direct electron transfer of glucose oxidase immobilized onto glassy carbon electrode modified with nitrophenyl diazonium salt. **2013**, 112, 640-647	30
671	Dendritic platinum-decorated gold nanoparticles for non-enzymatic glucose biosensing. **2013**, 1, 5925-5932	20
670	In situ enzymatic generation of H2O2 from O2 for use in oxidative bleaching and catalysis by TAML activators. **2013**, 37, 3488	11

669	High Catalytic Activity of Au-PEDOT Nanoflowers toward Electrooxidation of Glucose. **2013**, 160, H858-H865		13
668	Biofuel Cell Based on Anode and Cathode Modified by Glucose Oxidase. **2013**, 25, 2677-2683		39
667	Enhancing electro-codeposition and electrocatalytic properties of poly(neutral red) and FAD to determine NADH and H2O2 using amino-functionalized multi-walled carbon nanotubes. **2013**, 3, 25727		6
666	Cross-linked glucose oxidase clusters for biofuel cell anode catalysts. **2013**, 5, 035009		16
665	Synthesis, optical properties, and chemical–biological sensing applications of one-dimensional inorganic semiconductor nanowires. **2013**, 58, 705-748		60
664	Facile preparation of novel core-shell enzyme-Au-polydopamine-Fe□□magnetic bionanoparticles for glucosesensor. *Biosensors and Bioelectronics*, **2013**, 42, 293-9	11.8	85
663	Biochemical-to-optical signal transduction by pH sensitive organic–inorganic hybrid Bragg stacks with a full color display. **2013**, 1, 977-983		21
662	Redox Initiation of Bulk Thiol-Ene Polymerizations. **2013**, 4, 1167-1175		33
661	Development of glucose oxidase-based bioanodes for enzyme fuel cell applications. **2013**, 43, 181-190		7
660	Nanomaterials for electrochemical non-enzymatic glucose biosensors. **2013**, 3, 3487		261
659	Recent advances in electrochemical glucose biosensors: a review. **2013**, 3, 4473		557
658	Enzyme-free glucose biosensor based on low density CNT forest grown directly on a Si/SiO2 substrate. **2013**, 178, 586-592		50
657	Synthesis and electrochemical study of nanoporous palladium–cadmium networks for non-enzymatic glucose detection. **2013**, 112, 927-932		24
656	Development of magnetic single-enzyme nanoparticles as electrochemical sensor for glucose determination. **2013**, 111, 25-30		19
655	Highly sensitive and selective nonenzymatic detection of glucose using three-dimensional porous nickel nanostructures. **2013**, 85, 3561-9		307
654	Non-enzymatic electrochemical sensing of glucose. **2013**, 180, 161-186		352
653	Synthesis and characterization of ferracarborane–chitosan and ferracarborane–multiwalled carbon nanotube redox mediator conjugates for bioanode applications. **2013**, 50, 36-44		16
652	Screen Printed Electrodes Open New Vistas in Sensing: Application to Medical Diagnosis. **2013**, 83-120		2

651	Fabrication and characterization of a surface plasmon resonance based fiber optic sensor using gel entrapment technique for the detection of low glucose concentration. **2013**, 177, 589-595		78
650	High performance non-enzymatic glucose biosensor based on copper nanowires□arbon nanotubes hybrid for intracellular glucose study. **2013**, 182, 618-624		79
649	Enzyme Immobilization on Microelectrode Biosensors. **2013**, 95-114		4
648	Beyond oxidative stress: an immunologist's guide to reactive oxygen species. **2013**, 13, 349-61		862
647	Three-dimensional macroporous Cu electrode: Preparation and electrocatalytic activity for nonenzymatic glucose detection. **2013**, 700, 24-29		24
646	Hierachically Structured Hollow Silica Spheres for High Efficiency Immobilization of Enzymes. **2013**, 23, 2162-2167		87
645	Functional Polymer Brushes on Diamond as a Platform for Immobilization and Electrical Wiring of Biomolecules. **2013**, 23, 2979-2986		20
644	Development of Amperometric Glucose Biosensor Based on Reconstitution of Glucose Oxidase on Polymeric 3-Aminophenyl Boronic Acid Monolayer. **2013**, 25, 1194-1200		23
643	Perovskite LaTiO□Ag0.2 nanomaterials for nonenzymatic glucose sensor with high performance. *Biosensors and Bioelectronics*, **2013**, 48, 56-60	11.8	39
642	Development of antimicrobial packaging materials with immobilized glucose oxidase and lysozyme. **2013**, 11, 1066-1078		11
641	Aqueous dispersions of reduced graphene oxide and multi wall carbon nanotubes for enhanced glucose oxidase bioelectrode performance. **2013**, 61, 467-475		33
640	Conformation and activity of glucose oxidase on homogeneously coated and nanostructured surfaces. **2013**, 117, 6980-9		30
639	Influence of surface adsorption on the interfacial electron transfer of flavin adenine dinucleotide and glucose oxidase at carbon nanotube and nitrogen-doped carbon nanotube electrodes. **2013**, 85, 1571-81		76
638	Enzymatic Glucose Sensor Compensation for Variations in Ambient Oxygen Concentration. **2015**, 8591,		1
637	Amperometric glucose sensor based on nickel nanoparticles/carbon Vulcan XC-72R. *Biosensors and Bioelectronics*, **2013**, 47, 248-57	11.8	57
636	Preparation of Cobalt Oxide Nanoclusters/Overoxidized Polypyrrole Composite Film Modified Electrode and Its Application in Nonenzymatic Glucose Sensing. **2013**, 25, 1665-1674		20
635	In situ growth cupric oxide nanoparticles on carbon nanofibers for sensitive nonenzymatic sensing of glucose. **2013**, 105, 433-438		35
634	Preparation of Co3O4/graphene Oxide Composites by a Depositing-decompostion Method and its Application for Electrochemical Determination of Glucose. **2013**, 60, 366-370		7

633	Amperometric glucose biosensor based on silver nanowires and glucose oxidase. **2013**, 176, 9-14		85
632	Selective, colorimetric assay of glucose in urine using G-quadruplex-based DNAzymes and 10-acetyl-3,7-dihydroxy phenoxazine. **2013**, 108, 131-5		19
631	Nonenzymatic glucose sensor based on nickel(II)oxide/ordered mesoporous carbon modified glassy carbon electrode. **2013**, 102, 307-11		87
630	Redox phospholipid polymer microparticles as doubly functional polymer support for immobilization of enzyme oxidase. **2013**, 102, 857-63		14
629	The electrochemical behavior of an enzyme biosensor electrode using an oxyfluorinated pitch-based carbon. **2013**, 19, 94-98		11
628	Metal-enzyme frameworks: role of metal ions in promoting enzyme self-assembly on zirconium(IV) phosphate nanoplates. **2013**, 29, 2971-81		25
627	Biomolecular AND logic gate based on immobilized enzymes with precise spatial separation controlled by scanning electrochemical microscopy. **2013**, 117, 16058-65		13
626	Non-enzymatic electrochemical glucose sensor based on platinum nanoflowers supported on graphene oxide. **2013**, 105, 379-85		144
625	A bis-boronic acid modified electrode for the sensitive and selective determination of glucose concentrations. **2013**, 138, 7146-51		61
624	Polymer thin films embedded with metal nanoparticles for electrochemical biosensors applications. *Biosensors and Bioelectronics*, **2013**, 41, 43-53	11.8	154
623	A Novel Nonenzymatic Glucose Sensor Based on Polydopamine-Nanoplatinum Composites Modified Electrode. **2013**, 726-731, 13-16		
622	Rubber muscle actuation with pressurized CO2from enzyme-catalyzed urea hydrolysis. **2013**, 22, 094022		6
621	Heated proteins are still active in a functionalized nanoporous support. **2013**, 9, 2228-32		11
620	Nickel Hydroxide and Intercalated Graphene with Ionic Liquid Nanocomposite-modified Electrode for Sensing of Glucose. **2013**, 60, 1062-1069		4
619	Glucose biosensor based on a glassy carbon electrode modified with polythionine and multiwalled carbon nanotubes. **2014**, 9, e95030		21
618	Electrosynthesis of Cu / ZnO nanocomposite electrode on ITO electrode and its application in oxidation of ascorbic acid and glucose. **2014**, 39, 183-190		
617	Organic Thin-Film Transistor (OTFT)-Based Sensors. **2014**, 3, 234-254		75
616	Optical and Electrical Si-Based Biosensors: Fabrication and Trasduction Issues. **2014**, s12',		

615	Pt-Au interdigitated array electrodes for biosensing applications. **2014**, 39, 239-242		
614	A Systematic Study of the Catalytic Behavior at Enzyme□Metal-Oxide Nanointerfaces. **2014**, 04, 1450005		12
613	Ytterbium(III) porpholactones: □actonization of porphyrin ligands enhances sensitization efficiency of lanthanide near-infrared luminescence. **2014**, 20, 4324-33		45
612	Sol□Gel Processing of Ceramics. **2014**, 121-140		
611	Ultrasensitive nonenzymatic sensing of glucose on Ni(OH)2-coated nanoporous gold film with two pairs of electron mediators. **2014**, 142, 351-358		45
610	Electrospun Nanofiber-Based Sensors. **2014**, 267-297		5
609	Disposable screen printed electrochemical sensors: tools for environmental monitoring. **2014**, 14, 10432-53		256
608	A Rapid Anodic Fabrication of Nanoporous Gold in NH4Cl Solution for Nonenzymatic Glucose Detection. **2014**, 161, H802-H808		8
607	Application of Polyfolates in the Development of Electrochemical Glucose Biosensors. **2014**, 26, 2273-2282		2
606	Electrochemical Studies on Glucose Oxidation in an Enzymatic Fuel Cell with Enzyme Immobilized on to Reduced Graphene Oxide Surface. **2014**, 26, 2408-2418		13
605	A Novel Non-Enzymatic Glucose Sensor Based on Cobalt Nanoparticles Implantation-Modified Indium Tin Oxide Electrode. **2014**, 26, 2693-2700		40
604	Sugar flux through the flight muscles of hovering vertebrate nectarivores: a review. **2014**, 184, 945-59		11
603	Graphene/polyaniline/gold nanoparticles nanocomposite for the direct electron transfer of glucose oxidase and glucose biosensing. **2014**, 190, 562-569		151
602	Bimetallic PdCu nanoparticle decorated three-dimensional graphene hydrogel for non-enzymatic amperometric glucose sensor. **2014**, 190, 707-714		169
601	Novel ultrasensitive non-enzymatic glucose sensors based on controlled flower-like CuO hierarchical films. **2014**, 199, 175-182		105
600	Enzyme-free sensing of hydrogen peroxide and glucose at a CuS nanoflowers modified glassy carbon electrode. **2014**, 115, 126-130		77
599	Enzymatic reactivity of glucose oxidase confined in nanochannels. *Biosensors and Bioelectronics*, **2014**, 55, 307-12	11.8	34
598	Nickel oxide hollow microsphere for non-enzyme glucose detection. *Biosensors and Bioelectronics*, **2014**, 54, 251-7	11.8	182

597	Engineering the pH-responsive catalytic behavior of AuNPs by DNA. **2014**, 10, 399-406		92
596	Electrochemical sensing interfaces with tunable porosity for nonenzymatic glucose detection: a Cu foam case. *Biosensors and Bioelectronics*, **2014**, 51, 22-8	11.8	81
595	A Comparative Study of Nonenzymatic Electrochemical Glucose Sensors Based on Pt-Pd Nanotube and Nanowire Arrays. **2014**, 130, 1-8		78
594	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. **2014**, 114, 164-9		110
593	Core□shell TiC/C nanofiber arrays decorated with copper nanoparticles for high performance non-enzymatic glucose sensing. **2014**, 192, 474-479		33
592	Integration of microfluidics and FT-IR microscopy for label-free study of enzyme kinetics. **2014**, 196, 175-182		25
591	Electrospun Nanofibers for Energy and Environmental Applications. **2014**,		52
590	Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubes-Graphene Hybrid Electrode. **2014**, 26, 103-108		67
589	Non-Enzymatic Electrochemical Detection of Glucose with a Gold Nanowire Array Electrode. **2014**, 26, 656-663		12
588	New insights into the analysis of the electrode kinetics of flavin adenine dinucleotide redox center of glucose oxidase immobilized on carbon electrodes. **2014**, 30, 3264-73		20
587	Highly Stable and Selective Non-Enzymatic Glucose Biosensor Using Carbon Nanotubes Decorated by Fe3O4Nanoparticles. **2014**, 161, B19-B25		34
586	CuO nanowires based sensitive and selective non-enzymatic glucose detection. **2014**, 191, 86-93		190
585	Layer-by-layer deposited nano- and micro-assemblies for insulin delivery: a review. **2014**, 34, 384-92		64
584	The fabrication and characterization of Cu-nanoparticle immobilization on a hybrid chitosan derivative-carbon support as a novel electrochemical sensor: application for the sensitive enzymeless oxidation of glucose and reduction of hydrogen peroxide. **2014**, 2, 706-717		61
583	Ion-driven photoluminescence modulation of quasi-two-dimensional MoS2 nanoflakes for applications in biological systems. **2014**, 14, 857-63		215
582	Organic□inorganic Hybrid Supramolecular Assembly: An Efficient Platform for Nonenzymatic Glucose Sensor. **2014**, 2, 2852-2858		47
581	Implanted Biofuel Cells Operating In Vivo. **2014**, 363-379		
580	Modification of PEGylated enzyme with glutaraldehyde can enhance stability while avoiding intermolecular crosslinking. **2014**, 4, 28036-28040		8

579	Enzymatic aerobic ring rearrangement of optically active furylcarbinols. **2014**, 5, 5278		48
578	Adsorption and catalytic activity of glucose oxidase accumulated on OTCE upon the application of external potential. **2014**, 435, 164-70		9
577	Enzyme catalytic efficiency: a function of bio-nano interface reactions. **2014**, 6, 5393-403		71
576	Enzymeless Glucose Detection Based on CoO/Graphene Microsphere Hybrids. **2014**, 26, 1326-1334		41
575	Single layer of nickel hydroxide nanoparticles covered on a porous Ni foam and its application for highly sensitive non-enzymatic glucose sensor. **2014**, 204, 159-166		87
574	Prickly nickel nanowires grown on Cu substrate as a supersensitive enzyme-free electrochemical glucose sensor. **2014**, 204, 783-790		39
573	CuO□Ag2O nanoparticles grown on a AgCuZn alloy substrate in situ for use as a highly sensitive non-enzymatic glucose sensor. **2014**, 6, 2215		14
572	Chemically modified flexible strips as electrochemical biosensors. **2014**, 139, 4661-72		12
571	Determination of the pH dependent redox potential of glucose oxidase by spectroelectrochemistry. **2014**, 86, 7530-5		57
570	Dendrimer-encapsulated and cored metal nanoparticles for electrochemical nanobiosensing. **2014**, 53, 137-149		62
569	Electrochemical deposition of gold nanoparticles on graphite rod for glucose biosensing. **2014**, 203, 25-34		61
568	Evidence of short-range electron transfer of a redox enzyme on graphene oxide electrodes. **2014**, 16, 17426-36		46
567	Unsubstituted phenothiazine as a superior water-insoluble mediator for oxidases. *Biosensors and Bioelectronics*, **2014**, 53, 275-82	11.8	12
566	Pt-CuO nanoparticles decorated reduced graphene oxide for the fabrication of highly sensitive non-enzymatic disposable glucose sensor. **2014**, 195, 197-205		105
565	Non-enzymatic sensing of carbohydrates using a nickel□hromium alloy electrode. **2014**, 193, 46-52		10
564	Evaluation of accuracy of FAD-GDH- and mutant Q-GDH-based blood glucose monitors in multi-patient populations. **2014**, 433, 28-33		11
563	Wired pyrroloquinoline quinone soluble glucose dehydrogenase enzyme electrodes operating at unprecedented low redox potential. **2014**, 86, 2465-73		38
562	Glucose Oxidase Immobilization on Guar Gum□Gelatin Dual-Templated Silica Hybrid Xerogel. **2014**, 53, 3854-3860		15

561	Ferrocene Entrapped In Polypyrrole Film and PAMAM Dendrimers as Matrix for Mediated Glucose/O2 Biofuel Cell. **2014**, 136, 52-58		21
560	A novel glucose sensor based on MoS2 nanosheet functionalized with Ni nanoparticles. **2014**, 136, 41-46		109
559	Comparison of glucose oxidases from Penicillium adametzii, Penicillium Funiculosum and Aspergillus Niger in the design of amperometric glucose biosensors. **2014**, 30, 1143-9		6
558	Protein Engineering for Enzymatic Fuel Cells. **2014**, 109-122		
557	Promotion and suppression effects of cationic polymer poly-L-lysine on the glucose oxidase reaction with ferrocene derivatives as oxidants with different charges. **2014**, 30, 299-303		9
556	Stochastic Events in Nanoelectrochemical Systems. **2015**, 256-307		
555	Protein Adsorption in Langmuir Films: Example of Glucose Oxidase. **2015**, 6093-6104		
554	Increasing performance and stability of mass-manufacturable biobatteries by ink modification. **2015**, 4, 61-69		1
553	High Performance Non-enzymatic Glucose Sensor Based on One-Step Electrodeposited Nickel Sulfide. **2015**, 21, 9355-9		73
552	Hofmeister Phenomena in Bioelectrochemistry: The Supporting Electrolyte Affects the Response of Glucose Electrodes. *ChemElectroChem*, **2015**, 2, 659-663	4.3	20
551	The Host Guest Interaction Between Cucurbit[7]uril and Ferrocenemonocarboxylic Acid for Electrochemically Catalytic Determination of Glucose. **2015**, 27, 1387-1393		7
550	Synthesis, Characterization and Applications of Nano-structured Metal Hexacyanoferrates: A Review. **2015**, 02,		35
549	Recent Progress in Lectin-Based Biosensors. **2015**, 8, 8590-8607		31
548	H2O2 Detection at Carbon Nanotubes and Nitrogen-Doped Carbon Nanotubes: Oxidation, Reduction, or Disproportionation?. **2015**, 87, 5989-96		61
547	Multi-wall carbon nanotube NiO nanoparticle composite as enzyme-free electrochemical glucose sensor. **2015**, 220, 81-90		46
546	A non-enzymatic thermally reduced Cu nanoparticle based graphene-resorcinol benzaldehyde glucose sensor. **2015**, 19, 91-96		5
545	Heteroatom-enriched porous carbon/nickel oxide nanocomposites as enzyme-free highly sensitive sensors for detection of glucose. **2015**, 221, 1384-1390		45
544	Optimization of enzyme immobilization on magnetic microparticles using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC) as a crosslinking agent. **2015**, 7, 10291-10298		30

543	Electrochemical sensing platform based on Pd@Au bimetallic cluster for non-enzymatic detection of glucose. **2015**, 209, 695-700		95
542	Conformation, Bioactivity and Electrochemical Performance of Glucose Oxidase Immobilized on Surface of Gold Nanoparticles. **2015**, 158, 56-63		28
541	Controllable preparation of hierarchically core–shell structure NiO/C microspheres for non-enzymatic glucose sensor. **2015**, 632, 402-407		33
540	Self-supported porous CoOOH nanosheet arrays as a non-enzymatic glucose sensor with good reproducibility. **2015**, 210, 190-196		50
539	A novel nonenzymatic glucose sensor based on magnetic copper ferrite immobilized on multiwalled carbon nanotubes. **2015**, 7, 2360-2366		25
538	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent pi–pi functionalization of graphene produced via a novel, green synthesis method. **2015**, 210, 558-565		37
537	Highly sensitive non-enzymatic glucose sensor based on over-oxidized polypyrrole nanowires modified with Ni(OH)2 nanoflakes. **2015**, 211, 93-101		68
536	Glucose oxidase and glucose for redox-initiating the free radical copolymerization of N-(ferrocenoylmethyl)acrylamide in aqueous cyclodextrin solution. **2015**, 36, 427-31		4
535	The ethylene glycol template assisted hydrothermal synthesis of Co3O4 nanowires; structural characterization and their application as glucose non-enzymatic sensor. **2015**, 194, 94-100		54
534	Fluorescent gold nanoclusters based photoelectrochemical sensors for detection of H2O2 and glucose. *Biosensors and Bioelectronics*, **2015**, 67, 296-302	11.8	89
533	Novel glucose sensor with Au@Ag heterogeneous nanorods based on electrocatalytic reduction of hydrogen peroxide at negative potential. **2015**, 742, 84-89		16
532	Glucose oxidase immobilized PANI cladding modified fiber optic intrinsic biosensor for detection of glucose. **2015**, 210, 362-368		32
531	Nicotinamide adenine dinucleotide assisted direct electrodeposition of gold nanodendrites and its electrochemical applications. **2015**, 158, 129-137		13
530	CuO nanoparticles on sulfur-doped graphene for nonenzymatic glucose sensing. **2015**, 156, 244-251		100
529	Glucose Biochip Based on Flexible Carbon Fiber Electrodes: In Vivo Diabetes Evaluation in Rats. *ChemElectroChem*, **2015**, 2, 518-521	4.3	13
528	Nanoporous CuO layer modified Cu electrode for high performance enzymatic and non-enzymatic glucose sensing. **2015**, 26, 015503		26
527	Single step synthesis of Au@CuO nanoparticles decorated reduced graphene oxide for high performance disposable nonenzymatic glucose sensor. **2015**, 743, 1-9		54
526	An enzyme-free glucose sensor based on a difunctional diboronic acid for molecular recognition and potentiometric transduction. **2015**, 5, 13805-13808		12

525	Effect of some redox mediators on FAD fluorescence of glucose oxidase from Penicillium adametzii LF F-2044.1. **2015**, 72, 10-5	7
524	Enzyme-Free Amperometric Detection of Glucose on Platinum-Replaced Porous Copper Frameworks. **2015**, 165, 383-389	31
523	Enzyme logic AND-Reset and OR-Reset gates based on a field-effect electronic transducer modified with multi-enzyme membrane. **2015**, 51, 6564-7	34
522	Preparation and characterization of nickel oxide nanoparticles and their application in glucose and methanol sensing. **2015**, 4, 45-54	5
521	Highly sensitive and wide-range nonenzymatic disposable glucose sensor based on a screen printed carbon electrode modified with reduced graphene oxide and Pd-CuO nanoparticles. **2015**, 182, 2183-2192	42
520	Novel route to synthesis of N-doped graphene/CuNi oxide composite for high electrochemical performance. **2015**, 94, 962-970	66
519	Non-enzymatic electronic detection of glucose using aminophenylboronic acid functionalized reduced graphene oxide. **2015**, 221, 1209-1214	17
518	Immobilization of enzymes via microcontact printing and thiol-ene click chemistry. **2015**, 26, 1017-20	37
517	CuO nanowire/microflower/nanowire modified Cu electrode with enhanced electrochemical performance for non-enzymatic glucose sensing. **2015**, 26, 305503	35
516	New Evidence for a Quasi-Simultaneous Proton-Coupled Two-Electron Transfer and Direct Wiring for Glucose Oxidase Captured by the Carbon NanotubePolymer Matrix. **2015**, 119, 14900-14910	17
515	Amperometric Detection of Aqueous Silver Ions by Inhibition of Glucose Oxidase Immobilized on Nitrogen-Doped Carbon Nanotube Electrodes. **2015**, 87, 7250-7	16
514	Novel glucose dehydrogenase from Mucor prainii: Purification, characterization, molecular cloning and gene expression in Aspergillus sojae. **2015**, 120, 498-503	10
513	Honeycomb-like Porous Carbon-Cobalt Oxide Nanocomposite for High-Performance Enzymeless Glucose Sensor and Supercapacitor Applications. **2015**, 7, 15812-20	180
512	Titania nanostructures: a biomedical perspective. **2015**, 5, 37149-37171	42
511	A novel nonenzymatic ECL glucose sensor based on perovskite LaTiO3-Ag0.1 nanomaterials. **2015**, 212, 174-182	35
510	Crystallin Nanofibrils: A Functionalizable Nanoscaffold with Broad Applications Manufactured from Waste. **2015**, 80, 810-819	7
509	Chemical oxidative polymerization, optical, electrochemical and kinetic studies of 8-amino-2-naphthol. **2015**, 22, 1	6
508	Synthesis of Novel CuO Nanosheets with Porous Structure and Their Non-Enzymatic Glucose Sensing Applications. **2015**, 27, 1238-1244	15

507	A highly sensitive non-enzymatic glucose sensor based on tremella-like Ni(OH)2 and Au nanohybrid films. **2015**, 749, 83-88	51
506	Origin of Low Detection Limit and High Selectivity of Roche Accu-Chek Test Strips that Enables Measurement of Tear Glucose Levels. **2015**, 27, 670-676	11
505	Improvement of Electrochemical Performance of Bilirubin Oxidase Modified Gas Diffusion Biocathode by Hydrophilic Binder. **2015**, 162, F1425-F1430	9
504	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. **2015**, 9, 12174-81	105
503	Hierarchical platinum nanostructure for the non-enzymatic detection of glucose by amperometry and impedance analysis. **2015**,	
502	Preparation of multilayer films consisting of glucose oxidase and poly(amidoamine) dendrimer and their stability. **2015**, 293, 2713-2718	6
501	Design of metal organic framework-enzyme based bioelectrodes as a novel and highly sensitive biosensing platform. **2015**, 3, 8983-8992	97
500	Self-assembly synthesis of Co3O4/multiwalled carbon nanotube composites: an efficient enzyme-free glucose sensor. **2015**, 39, 9735-9742	21
499	Growth of Cu particles on a Cu2O truncated octahedron: tuning of the Cu content for efficient glucose sensing. **2015**, 17, 24361-9	18
498	Glucose-induced decomposition of layer-by-layer films composed of phenylboronic acid-bearing poly(allylamine) and poly(vinyl alcohol) under physiological conditions. **2015**, 3, 7796-7802	25
497	Hierarchical flower-like NiO hollow microspheres for non-enzymatic glucose sensors. **2015**, 757, 51-57	48
496	Biocomposite Nanomaterials for Electrochemical Biosensors. **2015**, 1-29	1
495	A novel non-enzymatic electrochemiluminescence sensor for the detection of glucose based on the competitive reaction between glucose and phenoxy dextran for concanavalin A binding sites. **2015**, 180, 471-478	26
494	Research on novel nonenzymatic ECL sensor using Au-HS/SO3H-PMO (Et) nanocomposites for glucose detection. **2015**, 758, 93-99	5
493	A facile and effective immobilization of glucose oxidase on tannic acid modified CoFe2O4 magnetic nanoparticles. **2015**, 136, 963-70	56
492	Nanocalorimetric platform for accurate thermochemical studies in microliter volumes. **2015**, 5, 97133-97142	5
491	Detection of glucose with a lamellar-ridge architectured gold modified electrode. **2015**, 206, 721-727	16
490	A Non-Enzymatic Glucose Sensor based on Copper Oxide Nanowires-Single Wall Carbon Nanotubes. **2015**, 162, B47-B51	21

489	Non-enzymatic glucose sensor based on Au nanoparticles decorated ternary Ni-Al layered double hydroxide/single-walled carbon nanotubes/graphene nanocomposite. **2015**, 152, 146-154		139
488	A non-enzymatic glucose amperometric biosensor based on a simple one-step electrodeposition of Cu microdendrites onto single-walled carbon nanohorn-modified electrode. **2015**, 19, 831-839		13
487	Graphene oxide doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for high performance nonenzymatic sensing of glucose. **2015**, 3, 556-561		53
486	Highly-Sensitive Electrochemical Sensor for Glucose based on the Ordered Macroporous Polycysteine/Cu Film. **2015**, 162, B36-B40		5
485	Nitrogen and sulfur dual-doped graphene for glucose biosensor application. **2015**, 738, 100-107		23
484	Electrospun graphene decorated MnCo2O4 composite nanofibers for glucose biosensing. *Biosensors and Bioelectronics*, **2015**, 66, 308-15	11.8	75
483	Synthesis of new copper nanoparticle-decorated anchored type ligands: applications as non-enzymatic electrochemical sensors for hydrogen peroxide. **2015**, 47, 290-7		21
482	Synthesis of carbon nanotube-nickel nanocomposites using atomic layer deposition for high-performance non-enzymatic glucose sensing. *Biosensors and Bioelectronics*, **2015**, 63, 325-330	11.8	128
481	Using copper ions to amplify ROS-mediated fluorescence for continuous online monitoring of extracellular glucose in living rat brain. *Biosensors and Bioelectronics*, **2015**, 64, 535-41	11.8	4
480	Monitoring of Glucose in Beer Brewing by a Carbon Nanotubes Based Nylon Nanofibrous Biosensor. **2016**, 2016, 1-11		14
479	Introducing Thermal Wave Transport Analysis (TWTA): A Thermal Technique for Dopamine Detection by Screen-Printed Electrodes Functionalized with Molecularly Imprinted Polymer (MIP) Particles. **2016**, 21,		25
478	Nitrogen-Doped Carbon Dots as A New Substrate for Sensitive Glucose Determination. **2016**, 16,		37
477	Electrochemical Affinity Biosensors Based on Disposable Screen-Printed Electrodes for Detection of Food Allergens. **2016**, 16,		49
476	Adsorption of enzymes to stimuli-responsive polymer brushes: Influence of brush conformation on adsorbed amount and biocatalytic activity. **2016**, 146, 737-45		27
475	Magneto-switchable Electrodes and Electrochemical Systems. **2016**, 28, 904-919		16
474	The intrinsic fluorescence of FAD and its application in analytical chemistry: a review. **2016**, 4, 042005		35
473	Non-enzymatic Glucose electrochemical sensor made of porous NiO thin films prepared by reactive magnetron sputtering at oblique angles. **2016**, 201, 38-44		74
472	Integration of biochemical sensors into wearable biomaterial platforms. **2016**,		

471	Colorimetric method to detect ε-poly-l-lysine using glucose oxidase. **2016**, 122, 513-8		5
470	Simpler and highly sensitive enzyme-free sensing of urea via NiO nanostructures modified electrode. **2016**, 6, 39001-39006		40
469	A nanoaggregate-on-mirror platform for molecular and biomolecular detection by surface-enhanced Raman spectroscopy. **2016**, 408, 609-18		9
468	Anneal-shrinked CuO dendrites grown on porous Cu foam as a robust interface for high-performance nonenzymatic glucose sensing. **2016**, 161, 615-622		18
467	Phase and Shape Dependent Non-Enzymatic Glucose Sensing Properties of Nickel Molybdate. **2016**, 1, 5187-5195		10
466	A novel bio-microcircuit for bio-assays. **2016**, 6, 75875-75879		
465	Facilitated Electron Hopping in Nanolayer Oxygen-Insensitive Glucose Biosensor for Application in a Complex Matrix. *ChemElectroChem*, **2016**, 3, 1884-1889	4.3	9
464	Recent advances in non-enzymatic electrochemical glucose sensors based on non-precious transition metal materials: opportunities and challenges. **2016**, 6, 84893-84905		146
463	Glucose biosensor based on functionalized ZnO nanowire/graphite films dispersed on a Pt electrode. **2016**, 27, 425501		21
462	Redox Hydrogel of Glucose Oxidase on MgO-Templated Carbon Electrode. **2016**, 89, 24-26		14
461	Non-enzymatic glucose sensor based on facial hydrothermal synthesized NiO nanosheets loaded on glassy carbon electrode. **2016**, 509, 252-258		20
460	Yeast surface display of dehydrogenases in microbial fuel-cells. **2016**, 112, 53-60		32
459	Microelectrode array biosensor for high-resolution measurements of extracellular glucose in the brain. **2016**, 237, 298-307		23
458	Concentration-dependent changes in apparent diffusion coefficients as indicator for colloidal stability of protein solutions. **2016**, 511, 276-287		19
457	Generation of Enzymatic Hydrogen Peroxide to Accelerate the Etching of Silver Nanocrystals with Selectivity. **2016**, 28, 7519-7527		5
456	Heterostructured palladium-platinum core-shell nanocubes for use in a nonenzymatic amperometric glucose sensor. **2016**, 183, 3311-3320		23
455	Electrochemical characterization of the pyranose 2-oxidase variant N593C shows a complete loss of the oxidase function with full preservation of substrate (dehydrogenase) activity. **2016**, 18, 32072-32077		5
454	Ag@Pt hollow nanoparticles anchored reduced graphene oxide composites for non-enzymatic glucose biosensor. **2016**, 27, 9370-9378		14

453	Low-Temperature Chemical Synthesis of CoWO4 Nanospheres for Sensitive Nonenzymatic Glucose Sensor. **2016**, 120, 17024-17028		51
452	Self-monitoring of tear glucose: the development of a tear based glucose sensor as an alternative to self-monitoring of blood glucose. **2016**, 52, 9197-204		49
451	Recent advances on enzymatic glucose/oxygen and hydrogen/oxygen biofuel cells: Achievements and limitations. **2016**, 325, 252-263		162
450	Enzyme-containing silica inverse opals prepared by using water-soluble colloidal crystal templates: Characterization and application. **2016**, 112, 123-129		10
449	Synthesis of copper nanorods for non-enzymatic amperometric sensing of glucose. **2016**, 183, 2369-2375		40
448	Hollow MnS nanospheres as electron transfer promoters of hemoglobin and their electrochemical sensing applications. **2016**, 51, 7156-7169		6
447	Silver nanoparticles decorated anchored type ligands as new electrochemical sensors for glucose detection. **2016**, 63, 39-45		21
446	Materiomics for Oral Disease Diagnostics and Personal Health Monitoring: Designer Biomaterials for the Next Generation Biomarkers. **2016**, 20, 12-29		3
445	Application of Natural Polymers in Engineering. **2016**, 185-218		3
444	Nanomaterial based electrochemical sensors for in vitro detection of small molecule metabolites. **2016**, 34, 234-49		69
443	Electrochemical and bio-sensing platform based on a novel 3D Cu nano-flowers/layered MoS composite. *Biosensors and Bioelectronics*, **2016**, 79, 685-92	11.8	70
442	A glassy carbon electrode modified with a composite consisting of reduced graphene oxide, zinc oxide and silver nanoparticles in a chitosan matrix for studying the direct electron transfer of glucose oxidase and for enzymatic sensing of glucose. **2016**, 183, 1625-1632		43
441	An overview of dealloyed nanoporous gold in bioelectrochemistry. **2016**, 109, 117-26		74
440	Covalent interlocking of glucose oxidase and peroxidase in the voids of paper: enzyme-polymer "spider webs". **2016**, 52, 2593-6		28
439	Bioelectrocatalytic systems for health applications. **2016**, 34, 177-97		41
438	Glucose sensors based on electrospun nanofibers: a review. **2016**, 408, 1285-306		81
437	Rapid detection of Escherichia coli O157:H7 and Salmonella Typhimurium in foods using an electrochemical immunosensor based on screen-printed interdigitated microelectrode and immunomagnetic separation. **2016**, 148, 200-8		122
436	Diffusion, adsorption and reaction of glucose in glucose oxidase enzyme immobilized mesoporous silica (SBA-15) particles: Experiments and modeling. **2016**, 105, 489-496		18

435	Synthesis of hierarchical Ni(OH)2 hollow nanorod via chemical bath deposition and its glucose sensing performance. **2016**, 222, 674-681		77
434	Hierarchical porous microspheres of the CoO@graphene with enhanced electrocatalytic performance for electrochemical biosensors. *Biosensors and Bioelectronics*, **2017**, 89, 612-619	11.8	64
433	Theoretical modeling expressions for networked enzymatic signal processing steps as logic gates optimized by filtering. **2017**, 32, 30-43		2
432	One-step synthesis of size-tunable gold nanoparticles immobilized on chitin nanofibrils via green pathway and their potential applications. **2017**, 315, 573-582		33
431	Synthesis, characterization and photovoltaic studies of oligo(acriflavine) via chemical oxidative polymerization. **2017**, 7, 8973-8984		11
430	Non-enzymatic Fluorescent Biosensor for Glucose Sensing Based on ZnO Nanorods. **2017**, 46, 3714-3719		18
429	CuO nanoparticles decorated nano-dendrite-structured CuBi 2 O 4 for highly sensitive and selective electrochemical detection of glucose. **2017**, 229, 129-140		21
428	Ordered titanium templates functionalized by gold films for biosensing applications - Towards non-enzymatic glucose detection. **2017**, 166, 207-214		18
427	A stretchable and screen-printed electrochemical sensor for glucose determination in human perspiration. *Biosensors and Bioelectronics*, **2017**, 91, 885-891	11.8	201
426	Ratiometric electrochemical detection of hydrogen peroxide and glucose. **2017**, 15, 2459-2466		16
425	Enzyme-Based Logic Gates and Networks with Output Signals Analyzed by Various Methods. **2017**, 18, 1688-1713		36
424	Fabrication and optimisation of a fused filament 3D-printed microfluidic platform. **2017**, 27, 035018		38
423	Preparation of Ni(OH)2 nanoplatelet/electrospun carbon nanofiber hybrids for highly sensitive nonenzymatic glucose sensors. **2017**, 7, 19345-19352		20
422	Electrodeposited honeycomb-like cobalt nanostructures on graphene oxide doped polypyrrole nanocomposite for high performance enzymeless glucose sensing. **2017**, 798, 9-16		17
421	Eco-friendly synthesis and morphology-dependent superior electrocatalytic properties of CuS nanostructures. **2017**, 246, 544-552		54
420	Highly sensitive non-enzymatic electrochemical glucose sensor by Nafion/SBA-15-Cu (II) modified glassy carbon electrode. **2017**, 799, 406-412		18
419	Energy Harvesting from the Animal/Human Body for Self-Powered Electronics. **2017**, 19, 85-108		227
418	DNA Release from Fe -Cross-Linked Alginate Films Triggered by Logically Processed Biomolecular Signals: Integration of Biomolecular Computing and Actuation. **2017**, 18, 1811-1821		32

417	Development of glucose-responsive 'smart' insulin systems. **2017**, 24, 267-278		36
416	Phospholipid bilayer functionalized membrane pores for enhanced efficiency of immobilized glucose oxidase enzyme. **2017**, 539, 43-51		18
415	CuO nanostructure modified pencil graphite electrode for non-enzymatic detection of glucose. **2017**,		
414	Electrocatalytic biofuel cell based on highly efficient metal-polymer nano-architectured bioelectrodes. **2017**, 39, 601-607		29
413	Graphene wrapped porous Co 3 O 4 /NiCo 2 O 4 double-shelled nanocages with enhanced electrocatalytic performance for glucose sensor. **2017**, 239, 36-44		82
412	Amperometric glucose sensor based on the Ni(OH)2/Al(OH)4□electrode obtained from a thin Ni3Al foil. **2017**, 408, 96-102		8
411	Detection of glucose in the growth media of Ulva lactuca using a Ni-Cu/TiO 2 /Ti self-assembly nanostructure sensor under the influence of crude oil. **2017**, 14, 7-16		4
410	Protein Oligomerization Based on Br□sted Acid Reaction. **2017**, 7, 3082-3088		12
409	Glucose-Triggered Insulin Release from Fe -Cross-linked Alginate Hydrogel: Experimental Study and Theoretical Modeling. **2017**, 18, 1541-1551		15
408	Engineering of Cellobiose Dehydrogenases for Improved Glucose Sensitivity and Reduced Maltose Affinity. *ChemElectroChem*, **2017**, 4, 846-855	4.3	11
407	Ultra-Sensitive Colorimetric Assay System Based on the Hybridization Chain Reaction-Triggered Enzyme Cascade Amplification. **2017**, 9, 167-175		53
406	Selective sensing of ethylene and glucose using carbon-nanotube-based sensors: an ab initio investigation. **2017**, 9, 1687-1698		23
405	Glucose oxidase and polyacrylic acid based water swellable enzyme-polymer conjugates for promoting glucose detection. **2017**, 9, 15998-16004		23
404	Nanoenabling electrochemical sensors for life sciences applications. **2017**, 32, 2883-2904		5
403	Aptasensor based optical detection of glycated albumin for diabetes mellitus diagnosis. **2017**, 28, 435505		25
402	Utilization of Polypyrrole Nanofibers in Glucose Detection. **2017**, 164, B585-B590		9
401	A flower-like NiO□nO2 nanocomposite and its non-enzymatic catalysis of glucose. **2017**, 7, 45177-45184		15
400	The molten-globule residual structure is critical for reflavination of glucose oxidase. **2017**, 230, 74-83		6

399	Facile Hydrothermal Synthesis of MnWO4 Nanorods for Non-Enzymatic Glucose Sensing and Supercapacitor Properties with Insights from Density Functional Theory Simulations. **2017**, 2, 5707-5715	14
398	Gold nanorods on three-dimensional nickel foam: a non-enzymatic glucose sensor with enhanced electro-catalytic performance. **2017**, 7, 36744-36749	23
397	Shuffling Active Site Substate Populations Affects Catalytic Activity: The Case of Glucose Oxidase. **2017**, 7, 6188-6197	30
396	Design of Cyclic Peptide Based Glucose Receptors and Their Application in Glucose Sensing. **2017**, 89, 10431-10438	18
395	Expanding the Scope of Biomolecule Monitoring with Ratiometric Signaling from Rare-Earth Upconverting Phosphors. **2017**, 2017, 5176-5185	4
394	A Novel Enzymatic Glucose Biosensor and Nonenzymatic Hydrogen Peroxide Sensor Based on (3-Aminopropyl) Triethoxysilane Functionalized Reduced Graphene Oxide. **2017**, 29, 2507-2515	13
393	Nano-composite of Co3O4 and Cu with enhanced stability and catalytic performance for non-enzymatic electrochemical glucose sensors. **2017**, 7, 54460-54467	11
392	Three-Dimensional, Enzyme Biohydrogel Electrode for Improved Bioelectrocatalysis. **2017**, 9, 42556-42565	8
391	A novel ball-in-ball hollow NiCo2S4 sphere based sensitive and selective nonenzymatic glucose sensor. **2017**, 9, 4718-4725	36
390	Microfluidic paper-based analytical devices for potential use in quantitative and direct detection of disease biomarkers in clinical analysis. **2017**, 1060, 424-442	43
389	Non-invasive continuous monitoring of pro-oxidant effects of engineered nanoparticles on aquatic microorganisms. **2017**, 15, 19	11
388	Intramolecular Electron Transfer through Poly-Ferrocenyl Glucose Oxidase Conjugates to Carbon Electrodes: 2. Mechanistic Understanding of Long-Term Stability. **2017**, 246, 294-302	2
387	Facile synthesis of hierarchically mesoporous NiCo2O4 nanowires for sensitive nonenzymatic glucose detection. **2017**, 123, 1	12
386	Multienzyme decorated polysaccharide amplified electrogenerated chemiluminescence biosensor for cytosensing and cell surface carbohydrate profiling. *Biosensors and Bioelectronics*, **2017**, 89, 1013-1019	11.8 24
385	Optical fibre based non-enzymatic glucose sensing over Cu2+-doped polyaniline hybrid matrix. **2017**, 242, 522-528	20
384	Mediator-free interaction of glucose oxidase, as model enzyme for immobilization, with Al-doped and undoped ZnO thin films laser-deposited on polycarbonate supports. **2017**, 96, 67-74	14
383	Effect of honey supplementation on sourdough: Lactic acid bacterial performance and gluten microstructure. **2017**, 77, 119-125	7
382	3.34 Biomaterials Challenges in Continuous Glucose Monitors In Vivo. **2017**, 755-770	

381	Nanostructured Inorganic Materials at Work in Electrochemical Sensing and Biofuel Cells. **2017**, 7, 31		19
380	An accurate description of organic acid batch fermentation through dynamic metabolic modelling. **2017**, 10, 258		22
379	Dawson-type polyoxometalate nanoclusters confined in a carbon nanotube matrix as efficient redox mediators for enzymatic glucose biofuel cell anodes and glucose biosensors. *Biosensors and Bioelectronics*, **2018**, 109, 20-26	11.8	44
378	Dual functional rhodium oxide nanocorals enabled sensor for both non-enzymatic glucose and solid-state pH sensing. *Biosensors and Bioelectronics*, **2018**, 112, 136-142	11.8	23
377	Mathematical model for the electrochemical impedance response of a continuous glucose monitor. **2018**, 275, 119-132		6
376	Non-enzymatic glucose sensing based on hierarchical platinum micro-/nanostructures. **2018**, 816, 215-222		28
375	Mucin and carbon nanotube-based biosensor for detection of glucose in human plasma. **2018**, 550, 34-40		29
374	A non-enzymatic nanoceria electrode for non-invasive glucose monitoring. **2018**, 10, 2151-2159		16
373	Chloroperoxidase-Catalyzed Achmatowicz Rearrangements. **2018**, 2018, 2717-2725		13
372	A review of implantable biosensors for closed-loop glucose control and other drug delivery applications. **2018**, 544, 319-334		55
371	Non-enzymatic glucose sensing platform using self assembled cobalt oxide/graphene nanocomposites immobilized graphite modified electrode. **2018**, 29, 6763-6770		8
370	Size control synthesis and amperometric sensing activity of Palladium nanoparticles for Glucose detection. **2018**, 5, 2049-2055		3
369	Synthesis of novel amperometric urea-sensor using hybrid synthesized NiO-NPs/GO modified GCE in aqueous solution of cetrimonium bromide. **2018**, 44, 120-128		37
368	Modified Electrodes and Electrochemical Systems Switchable by Light Signals. **2018**, 30, 759-797		12
367	Glucose oxidase assisted visual detection of glucose using oxygen deficient □MoO nanoflakes. **2017**, 185, 65		18
366	Same Substrate, Many Reactions: Oxygen Activation in Flavoenzymes. **2018**, 118, 1742-1769		185
365	Use of Super-Structural Conducting Polymer as Functional Immobilization Matrix in Biosensor Design. **2018**, 165, B22-B26		24
364	Fabrication of a promising immobilization platform based on electrochemical synthesis of a conjugated polymer. **2018**, 167, 392-396		3

363	Promotion Effect of Streptothricin on a Glucose Oxidase Enzymatic Reaction and Its Application to a Colorimetric Assay. **2018**, 34, 143-148		2
362	MoS2/Au@Pt nanohybrids as a sensing platform for electrochemical nonenzymatic glucose detection. **2018**, 42, 6750-6755		28
361	Enzymatic fuel cells with an oxygen resistant variant of pyranose-2-oxidase as anode biocatalyst. *Biosensors and Bioelectronics*, **2018**, 107, 17-25	11.8	17
360	High-performance glucose biosensor based on green synthesized zinc oxide nanoparticle embedded nitrogen-doped carbon sheet. **2018**, 816, 195-204		69
359	Development of Cu nanoflowers modified the flexible needle-type microelectrode and its application in continuous monitoring glucose in vivo. *Biosensors and Bioelectronics*, **2018**, 110, 44-51	11.8	29
358	IR-Compatible PDMS microfluidic devices for monitoring of enzyme kinetics. **2018**, 1021, 95-102		21
357	Copper oxide-polyaniline nanofiber modified fluorine doped tin oxide (FTO) electrode as non-enzymatic glucose sensor. **2018**, 266, 294-301		67
356	One-step synthesis of three-dimensional Co(OH)2/rGO nano-flowers as enzyme-mimic sensors for glucose detection. **2018**, 270, 147-155		42
355	There is no evidence to support literature claims of direct electron transfer (DET) for native glucose oxidase (GOx) at carbon nanotubes or graphene. **2018**, 819, 26-37		99
354	Robust polarization active nanostructured 1D Bragg Microcavities as optofluidic label-free refractive index sensor. **2018**, 256, 590-599		12
353	Highly sensitive nonenzymetic glucose sensing platform based on MOF-derived NiCo LDH nanosheets/graphene nanoribbons composite. **2018**, 808, 114-123		67
352	Metal Nanoparticles as Glucose Sensor. **2018**, 143-168		3
351	FAD roles in glucose catalytic oxidation studied by multiphase flow of extractive electrospray ionization (MF-EESI) mass spectrometry. **2018**, 9, 594-599		15
350	Dynamics of electrochemical Pt dissolution at atomic and molecular levels. **2018**, 819, 123-129		51
349	Brilliant green sequestered poly(amic) acid film for dual-mode detection: Fluorescence and electrochemical enzymatic biosensor. **2018**, 256, 71-78		12
348	Ultrasensitive and selective non-enzymatic electrochemical glucose sensor based on hybrid material of graphene nanosheets/graphene nanoribbons/nickel nanoparticle. **2018**, 98, 300-307		28
347	Disposable non-enzymatic blood glucose sensing strip based on nanoporous platinum particles. **2018**, 10, 24-29		25
346	Electrochemical Sensing of Hydrogen Peroxide Using Block Copolymer Templated Iron Oxide Nanopatterns. **2018**, 90, 1122-1128		27

345	BY MOLECULE ANCHORING TO PREPARE THE ULTRATHIN Ni LAYER WITH ELECTROCATALYTIC ACTIVITY TOWARD GLUCOSE. **2018**, 25, 1850100		
344	Metal-organic framework derived nanoporous carbon/Co3O4 composite electrode as a sensing platform for the determination of glucose and high-performance supercapacitor. **2018**, 127, 366-373		55
343	Insights into a hole transfer mechanism between glucose oxidase and a p-type organic semiconductor. *Biosensors and Bioelectronics*, **2018**, 102, 449-455	11.8	25
342	Liquid-crystal droplets functionalized with a non-enzymatic moiety for glucose sensing. **2018**, 257, 579-585		22
341	Implantable Enzyme-Based Biofuel Cells. **2018**, 248-260		1
340	Rapid room-temperature preparation of MoO3 quantum dots by ultraviolet irradiation for photothermal treatment and glucose detection. **2018**, 42, 18533-18540		23
339	Enzymatic Electrodes: Characteristics, Fabrication Methods, and Applications. **2018**, 190-199		1
338	Layer-By-Layer Assembly of Enzymes and Nanoparticles onto Cellulose Support. **2018**, 09,		
337	Porous Cellulose Nanofiber-Based Microcapsules for Biomolecular Sensing. **2018**, 10, 41146-41154		12
336	Cobalt Phosphate Nanostructures for Non-Enzymatic Glucose Sensing at Physiological pH. **2018**, 10, 42786-42795		35
335	Characterization of enzyme immobilized carbon electrode using covalent-entrapment with polypyrrole. **2018**, 41, 710-719		2
334	Atom Transfer Radical Polymerization Functionalization on Polypropylene Films for Immobilizing Active Compounds. **2018**, 71, 534		1
333	Exploring Ferredoxin-Dependent Glutamate Synthase as an Enzymatic Bioelectrocatalyst. **2018**, 140, 12700-12704		12
332	Noninvasive Glucose Monitoring with a Contact Lens and Smartphone. **2018**, 18,		39
331	Enzyme-Based Logic Systems: Composition, Operation, Interfacing, and Applications. **2018**, 265-305		
330	Effect of Poly-L-lysine on a Glucose Sensor Based on Glucose Oxidase and Ferricyanide Ion. **2018**, 34, 947-951		5
329	The remote arginine promoting the dehydrogenation of glucose in glucose oxidase via a proton-coupled double-electron transfer mechanism. **2018**, 367, 150-158		4
328	Nonenzymatic Wearable Sensor for Electrochemical Analysis of Perspiration Glucose. **2018**, 3, 1135-1141		65

327	Recent advances in electrochemical non-enzymatic glucose sensors - A review. **2018**, 1033, 1-34		367
326	Time programmable hydrogels: regulating the onset time of network dissociation by a reaction relay. **2018**, 54, 5899-5902		11
325	Magneto-switchable Electrodes and Electrochemical Systems. **2018**, 5-70		
324	Modified Electrodes and Electrochemical Systems Switchable by Light Signals. **2018**, 101-168		
323	Development of an enzyme free glucose sensor based on copper oxide-graphene composite by using green reducing agent ascorbic acid. **2018**,		
322	A Modular Approach for Interlocking Enzymes in Whatman Paper. **2018**, 57, 10158-10162		9
321	Polymeric gels for biosensing applications. **2018**, 487-503		3
320	A Modular Approach for Interlocking Enzymes in Whatman Paper. **2018**, 130, 10315-10319		2
319	Biosensing based on pencil graphite electrodes. **2018**, 190, 235-247		63
318	Uniform sensing layer of immiscible enzyme-mediator compounds developed via a spray aerosol mixing technique towards low cost minimally invasive microneedle continuous glucose monitoring devices. *Biosensors and Bioelectronics*, **2018**, 118, 224-230	11.8	19
317	Encapsulation of Enzymes, Antibodies, and Bacteria. **2018**, 2909-2931		2
316	Electrospun bimetallic Au-Ag/CoO nanofibers for sensitive detection of hydrogen peroxide released from human cancer cells. **2018**, 1042, 20-28		35
315	Stratiform Protein Microtube Reactors Containing Glucose Oxidase Layer. **2018**, 13, 2796-2799		5
314	Controlling Redox Enzyme Orientation at Planar Electrodes. **2018**, 8, 192		49
313	Enzyme based amperometric biosensors. **2018**, 10, 157-173		106
312	Design of Ultrasensitive Protein Biosensor Strips for Selective Detection of Aromatic Contaminants in Environmental Wastewater. **2018**, 90, 8960-8968		5
311	Rapid Detection of Tumor Necrosis Factor-Alpha Using Quantum Dot-Based Optical Aptasensor. **2018**, 17, 417-423		13
310	Glucose oxidase bioanodes for glucose conversion and H2O2 production for horseradish peroxidase biocathodes in a flow through glucose biofuel cell design. **2018**, 392, 176-180		28

309	Screen Printed Technology An Application Towards Biosensor Development. **2018**, 487-498		1
308	Advances in enzyme bioelectrochemistry. **2018**, 90, 825-857		21
307	Glucose-Responsive Microneedle Patches for Diabetes Treatment. **2019**, 13, 41-48		37
306	Electrochemical Enzyme Biosensors Revisited: Old Solutions for New Problems. *Critical Reviews in Analytical Chemistry*, **2019**, 49, 44-66	5.2	41
305	Agarase immobilized on tannic acid-modified FeO nanoparticles for efficient preparation of bioactive neoagaro-oligosaccharide. **2019**, 272, 586-595		19
304	CoOx nanoparticles modified CuBi2O4 submicron-sized square columns as a sensitive and selective sensing material for amperometric detection of glucose. **2019**, 95, 241-251		10
303	Release of Molecular Species Stimulated by Logically Processed Biomolecule Signals. **2019**, 283-312		
302	Transduction of Signals Generated by Enzyme Logic Gates. **2019**, 113-149		
301	Perspectives on and Precautions for the Uses of Electric Spectroscopic Methods in Label-free Biosensing Applications. **2019**, 4, 2216-2227		29
300	In-situ silver nanoparticles formation as a tool for non-enzymatic glucose sensing: Study with an enzyme mimicking salt. **2019**, 580, 123715		5
299	Synthesis of Ni-Co Hydroxide Nanosheets Constructed Hollow Cubes for Electrochemical Glucose Determination. **2019**, 19,		18
298	Glucose Oxidase Micropumps: Multi-Faceted Effects of Chemical Activity on Tracer Particles Near the Solid iquid Interface. **2019**, 4, 73		4
297	Water Splitting-Assisted Electrocatalytic Oxidation of Glucose with a Metal-Organic Framework for Wearable Nonenzymatic Perspiration Sensing. **2019**, 91, 10764-10771		39
296	Gold nanoparticles decorated on single layer graphene applied for electrochemical ultrasensitive glucose biosensor. **2019**, 855, 113495		21
295	Immobilized Enzymes from the Class of Oxidoreductases in Technological Processes: A Review. **2019**, 11, 251-263		6
294	Glucose oxidase immobilized amine terminated multiwall carbon nanotubes/reduced graphene oxide/polyaniline/gold nanoparticles modified screen-printed carbon electrode for highly sensitive amperometric glucose detection. **2019**, 105, 110075		45
293	Flexible electrochemical glucose biosensor based on GOx/gold/MoS/gold nanofilm on the polymer electrode. *Biosensors and Bioelectronics*, **2019**, 140, 111343	11.8	53
292	Conjugation of glucose oxidase and bilirubin oxidase bioelectrodes as biofuel cell in a finger-powered microfluidic platform. **2019**, 318, 922-930		9

291	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. **2019**, 119, 9509-9558	207
290	Self-deoxygenating glassware. **2019**, 55, 8544-8547	6
289	Recent advances in electrochemical nonenzymatic hydrogen peroxide sensors based on nanomaterials: a review. **2019**, 54, 12319-12357	62
288	In situ synthesis of CuO nanoparticles decorated hierarchical Ce-metal-organic framework nanocomposite for an ultrasensitive non-enzymatic glucose sensor. **2019**, 25, 4447-4457	15
287	Engineering glucose oxidase for bioelectrochemical applications. **2019**, 128, 218-240	52
286	Progress on the application of electrochemiluminescence biosensor based on nanomaterials. **2019**, 30, 1600-1606	18
285	Organic Semiconductors with Carbazole and Triphenylamine Moieties for Glucose Oxidase-Based Biosensors. **2019**, 166, B316-B321	9
284	Highly efficient nonenzymatic glucose sensors based on CuO nanoparticles. **2019**, 481, 712-722	37
283	Magnetic Nanoparticles-Embedded Enzyme-Inorganic Hybrid Nanoflowers with Enhanced Peroxidase-Like Activity and Substrate Channeling for Glucose Biosensing. **2019**, 8, e1801507	47
282	Characterization and spectroscopic study of enzymatic oligomerization of phenazopyridine hydrochloride. **2019**, 1188, 76-85	8
281	The imperative role of polymers in enzymatic cholesterol biosensors- an overview. **2019**, 58, 1713-1741	3
280	Solid-State rGO-PEDOT:PSS Transducing Material for Cost-Effective Enzymatic Sensing. **2019**, 9,	26
279	Facile Non-enzymatic Lactic Acid Sensor Based on Cobalt Oxide Nanostructures. **2019**, 31, 1296-1303	17
278	Electrochemical non-enzymatic glucose sensors based on nano-composite of Co3O4 and multiwalled carbon nanotube. **2019**, 30, 1157-1160	25
277	Non-Enzymatic Glucose Sensor Based on Hierarchical Au/Ni/Boron-Doped Diamond Heterostructure Electrode for Improving Performances. **2019**, 166, B373-B380	13
276	Economic Assessment of Nanomaterials in Bio-Electrical Water Treatment. **2019**, 1-23	7
275	Enzyme Immobilization in Polyelectrolyte Brushes: High Loading and Enhanced Activity Compared to Monolayers. **2019**, 35, 3479-3489	25
274	CMOS Interfaces for Internet-of-Wearables Electrochemical Sensors: Trends and Challenges. **2019**, 8, 150	11

273	Highly Electrocatalytic, Durable, and Stretchable Nanohybrid Fiber for On-Body Sweat Glucose Detection. **2019**, 11, 10707-10717		63
272	Enzyme colocalization in protein-based hydrogels. **2019**, 617, 265-285		2
271	3D Graphene-based macro-mesoporous frameworks as enzymatic electrodes. **2019**, 130, 1-5		7
270	Microfluidic Platform with an Embedded Pencil Graphite Electrode Biosensor for the Detection of Glucose and Cadmium. **2019**, 166, B155-B160		8
269	Numerical simulation of a microfluidic system for regular glucose measurement. **2019**,		1
268	Development of Highly Efficient NiO based Composite Materials for Ultra-Sensitive Glucose Sensors Non Enzymatic Glucose Sensors. **2019**,		2
267	Determination of Polyhexamethylene Biguanide Utilizing a Glucose Oxidase Enzymatic Reaction. **2019**, 35, 1021-1025		4
266	Wearable Skin-Worn Enzyme-Based Electrochemical Devices: Biosensing, Energy Harvesting, and Self-Powered Sensing. **2019**,		5
265	Cellulose nanocrystals decorated with gold nanoparticles immobilizing GOx enzyme for non-invasive biosensing of human salivary glucose. **2019**, 11, 6073-6083		14
264	Three-Dimensional Bioelectrodes Utilizing Graphene Based Bioink. **2019**, 166, G170-G177		5
263	Direct Electron Transfer between Glucose Oxidase and Gold Nanoparticles; When Size Matters. *ChemElectroChem*, **2019**, 6, 147-154	4.3	5
262	The peroxidase-mimicking function of acetate and its application in single-enzyme-based glucose test paper. **2019**, 196, 493-497		7
261	A 3,5-DistyrylBODIPY Dye Functionalized with Boronic Acid Groups for Direct Electrochemical Glucose Sensing. **2019**, 31, 137-145		9
260	Effect of Electrolyte Ions on the Stability of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase. *ChemElectroChem*, **2019**, 6, 1028-1031	4.3	5
259	Electrochemical behavior of a cation-exchange resin modified with copper ions on non-enzymatic glucose determination. **2019**, 835, 248-253		2
258	A novel luminescent sensor for disaccharide detection in food: Synthesis and application of a water-soluble rod-coil ionic block copolymer. **2019**, 112, 248-254		3
257	Nitrogen-doped Hollow Co3O4 Nanofibers for both Solid-state pH Sensing and Improved Non-enzymatic Glucose Sensing. **2019**, 31, 678-687		10
256	Enzyme Applications in Food Processing: Traditional Uses to New Developments. **2019**, 85-95		1

255	Electrochemical Glucose Biosensors: Whole Cell Microbial and Enzymatic Determination Based on 10-(4H-Dithieno[3,2-b:2?,3?-d]Pyrrol-4-yl)Decan-1-Amine Interfaced Glassy Carbon Electrodes. **2019**, 52, 1138-1152		10
254	Sensitive and selective non-enzymatic glucose detection using electrospun porous CuO□dO composite nanofibers. **2019**, 54, 3354-3367		12
253	Green synthesis of copper oxide nanoparticles decorated reduced graphene oxide for high sensitive detection of glucose. **2019**, 94, 850-857		45
252	Wearable biofuel cells based on the classification of enzyme for high power outputs and lifetimes. *Biosensors and Bioelectronics*, **2019**, 124-125, 40-52	11.8	70
251	Fabrication, characterization of polyaniline intercalated NiO nanocomposites and application in the development of non-enzymatic glucose biosensor. **2020**, 13, 4053-4064		26
250	A novel bilayer of copper nanowire and carbon nanotube electrode for highly sensitive enzyme free glucose detection. **2020**, 240, 122086		11
249	Glucose-Responsive Insulin and Delivery Systems: Innovation and Translation. **2020**, 32, e1902004		87
248	Transforming Noble-Metal Nanocrystals into Complex Nanostructures through Facet-Selective Etching and Deposition. **2020**, 6, 5-14		7
247	Dual catalytic functions of biomimetic, atomically dispersed iron-nitrogen doped carbon catalysts for efficient enzymatic biofuel cells. **2020**, 381, 122679		24
246	Magneto-controlled enzyme reactions. **2020**, 630, 1-24		
245	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. **2020**, 107, 110273		89
244	Light-activated oxygen self-supplied starving therapy in near-infrared (NIR) window and adjuvant hyperthermia-induced tumor ablation with an augmented sensitivity. **2020**, 234, 119771		31
243	Role of Transition Metals in Layered Double Hydroxides for Differentiating the Oxygen Evolution and Nonenzymatic Glucose Sensing. **2020**, 12, 6193-6204		26
242	The sweet detection of rolling circle amplification: Glucose-based electrochemical genosensor for the detection of viral nucleic acid. *Biosensors and Bioelectronics*, **2020**, 151, 112002	11.8	22
241	Molecular Crowding and a Minimal Footprint at a Gold Nanoparticle Support Stabilize Glucose Oxidase and Boost Its Activity. **2020**, 36, 37-46		9
240	Insulin Delivery from Glucose-Responsive, Self-Assembled, Polyamine Nanoparticles: Smart "Sense-and-Treat" Nanocarriers Made Easy. **2020**, 26, 2456-2463		7
239	1,4-Benzoquinone Derivatives for Enhanced Bioelectrocatalysis by Fructose Dehydrogenase from Gluconobacter Japonicus: Towards Promising D-Fructose Biosensor Development. **2020**, 32, 1005-1016		4
238	Phytic acid doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for enzymeless amperometric sensing of glucose. **2019**, 187, 49		8

237	Review□wo-Dimensional Titanium Carbide MXenes and Their Emerging Applications as Electrochemical Sensors. **2020**, 167, 037514		30
236	Stimuli-Responsive Insulin Delivery Devices. **2020**, 37, 202		3
235	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. *Biosensors and Bioelectronics*, **2020**, 168, 112537	11.8	52
234	Microbial cell surface display of oxidoreductases: Concepts and applications. **2020**, 165, 835-841		8
233	K-carrageenan/PVA/nano-eggshell biocomposite-based non-enzymatic electrochemical biosensor for low-level urea detection. **2020**, 126, 1		4
232	The multipurpose family of flavoprotein oxidases. **2020**, 47, 63-86		5
231	Theoretical Insight on the Biosensing Applications of 2D Materials. **2020**, 124, 11098-11122		7
230	A glucose/oxygen enzymatic fuel cell exceeding 1.5□V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. **2020**, 476, 228615		8
229	Non-Invasive Electrochemical Biosensors Operating in Human Physiological Fluids. **2020**, 20,		9
228	Glucose Oxidase-Related Cancer Therapies. **2020**, 3, 2000110		19
227	Enzyme catalysis powered micro/nanomotors for biomedical applications. **2020**, 8, 7319-7334		20
226	Printable Nonenzymatic Glucose Biosensors Using Carbon Nanotube-PtNP Nanocomposites Modified with AuRu for Improved Selectivity. **2020**, 6, 5315-5325		15
225	Catalase active metal-organic framework synthesized by ligand regulation for the dual detection of glucose and cysteine. **2020**, 1131, 118-125		6
224	A gold nanoparticles deposited polymer microneedle enzymatic biosensor for glucose sensing. **2020**, 358, 136917		20
223	A new donor-acceptor conjugated polymer-gold nanoparticles biocomposite materials for enzymatic determination of glucose. **2020**, 210, 123066		5
222	A Critical Review of Electrochemical Glucose Sensing: Evolution of Biosensor Platforms Based on Advanced Nanosystems. **2020**, 20,		50
221	Inducing Endoplasmic Reticulum Stress to Expose Immunogens: A DNA Tetrahedron Nanoregulator for Enhanced Immunotherapy. **2020**, 30, 2000532		15
220	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. **2020**, 3, 32		7

219	Preparation and performance of electrochemical glucose sensors based on copper nanoparticles loaded on flexible graphite sheet. **2020**, 35, 410-419	5
218	Self-Immobilized Putrescine Oxidase Biocatalyst System Engineered with a Metal Binding Peptide. **2020**, 36, 11908-11917	4
217	Unique Nonenzymatic Glucose Sensor Using a Hollow-Shelled Triple Oxide Mn-Cu-Al Nanocomposite. **2020**, 5, 23502-23509	8
216	Highly Sensitive Non-Enzymatic Detection of Glucose at MWCNT-CuBTC Composite Electrode. **2020**, 10, 8419	3
215	Continuous Determination of Glucose Using a Membraneless, Microfluidic Enzymatic Biofuel Cell. **2020**, 11,	3
214	Low-cost Immobilized Enzyme Glucose Sensor based on Laminar Flow. **2020**, 1681, 012008	
213	Nanozyme-Triggered DNA Release from Alginate Films.. **2020**, 3, 3741-3750	8
212	Glucose oxidase-induced colorimetric immunoassay for qualitative detection of danofloxacin based on iron (II) chelation reaction with phenanthroline. **2020**, 328, 127099	7
211	Enhanced P450 fatty acid decarboxylase catalysis by glucose oxidase coupling and co-assembly for biofuel generation. **2020**, 311, 123538	5
210	Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal□Organic Framework Coating. **2020**, 132, 16181-16187	3
209	Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal-Organic Framework Coating. **2020**, 59, 16047-16053	12
208	A 3D porous graphene aerogel@GOx based microfluidic biosensor for electrochemical glucose detection. **2020**, 145, 5141-5147	16
207	Facile simultaneous synthesis of tetraaniline nanostructures/silver nanoparticles as heterogeneous catalyst for the efficient catalytic reduction of 4-nitrophenol to 4-aminophenol.. **2020**, 10, 22043-22053	7
206	Electrochemiluminescent detection of glucose in human serum by BODIPY-based chemodosimeters for hydrogen peroxide using accelerated self-immolation of boronates. **2020**, 56, 7577-7580	6
205	Microneedle array sensor for monitoring glucose in single cell using glucose oxidase-bonded polyterthiophene coated on AuZn oxide layer. **2020**, 320, 128416	12
204	Hydrogel Glucose Sensor with In□Vivo Stable Fluorescence Intensity Relying on Antioxidant Enzymes for Continuous Glucose Monitoring. **2020**, 23, 101243	5
203	In situ formation of CoO hollow nanocubes on carbon cloth-supported NiCoO nanowires and their enhanced performance in non-enzymatic glucose sensing. **2020**, 31, 265501	22
202	Screen-printed electrochemical biosensor based on a ternary Co@MoS/rGO functionalized electrode for high-performance non-enzymatic glucose sensing. **2020**, 22, 17	8

201	Advances in Solar Power Generation and Energy Harvesting. **2020**,		1
200	Smart Textiles for Electricity Generation. **2020**, 120, 3668-3720		349
199	Significance of nanomaterials in electrochemical glucose sensors: An updated review (2016-2020). *Biosensors and Bioelectronics*, **2020**, 159, 112165	11.8	135
198	Enzyme-Based Biosensors: Tackling Electron Transfer Issues. **2020**, 20,		43
197	Porous Pt Nanospheres Incorporated with GOx to Enable Synergistic Oxygen-Inductive Starvation/Electrodynamic Tumor Therapy. **2020**, 7, 2001223		43
196	Biocatalytic metal nanopatterning through enzyme-modified microelectrodes. **2020**, 24, 2985-2996		1
195	A novel approach with glass needle enclosed movable probe for in vivo real-time detection of glucose in cisternal cerebrospinal fluid. **2020**, 873, 114440		
194	3D printed UV/VIS detection systems constructed from transparent filaments and immobilised enzymes. **2020**, 33, 101094		3
193	Transdermal colorimetric patch for hyperglycemia sensing in diabetic mice. **2020**, 237, 119782		32
192	Nanobiomaterial Engineering. **2020**,		19
191	Diffusion-limited biosensing of dissolved oxygen by direct electron transfer-type bioelectrocatalysis of multi-copper oxidases immobilized on porous gold microelectrodes. **2020**, 860, 113895		12
190	Membraneless enzymatic biofuel cells using iron and cobalt co-doped ordered mesoporous porphyrinic carbon based catalyst. **2020**, 511, 145449		17
189	Development of a highly nanoporous platinum screen-printed electrode and its application in glucose sensing. **2020**, 860, 113912		7
188	Homotypic targeting upconversion nano-reactor for cascade cancer starvation and deep-tissue phototherapy. **2020**, 235, 119765		17
187	Application of N,N′-Bis(acetylacetonato)propylenediimine Copper(II) Complex as Mediator for Glucose Biosensor. **2020**, 5, 1671-1675		2
186	The PDE4 inhibitor CHF6001 affects keratinocyte proliferation via cellular redox pathways. **2020**, 685, 108355		6
185	Nonenzymatic Glucose Sensing Using NiNb Nanoglass. **2020**, 14, 5543-5552		32
184	Enzyme-Like Properties of Gold Clusters for Biomedical Application. **2020**, 8, 219		18

183	Enzyme immobilization strategies and bioprocessing applications. **2020**, 217-241		1
182	Mediated electrochemical oxidation of glucose via poly(methylene green) grafted on the carbon surface catalyzed by flavin adenine dinucleotide-dependent glucose dehydrogenase. **2020**, 192, 111065		10
181	The effects of glucose and glucose oxidase on the Uv-vis spectrum of gold nanoparticles: A study on optical biosensor for saliva glucose monitoring. **2020**, 30, 101771		8
180	PQQ-GDH - Structure, function and application in bioelectrochemistry. **2020**, 134, 107496		15
179	Effects of the Hydrophobicity of Key Residues on the Characteristics and Stability of Glucose Oxidase on a Graphene Surface. **2020**, 6, 1899-1908		5
178	A graphene-laminated electrode with high glucose oxidase loading for highly-sensitive glucose detection. **2021**, 66, 57-63		8
177	. **2021**, 49, 604-614		4
176	Novel paper- and fiber optic-based fluorescent sensor for glucose detection using aniline-functionalized graphene quantum dots. **2021**, 329, 129250		17
175	A novel electrochemical non-enzymatic glucose sensor based on Au nanoparticle-modified indium tin oxide electrode and boronate affinity. **2021**, 368, 137603		11
174	Development of Apple Tissue Based Biocathode and MWCNT-Pt-Au Nanomaterial Based Bioanode Biofuel Cell. **2021**, 33, 873-881		2
173	Nanostructured copper selenide as an ultrasensitive and selective non-enzymatic glucose sensor. **2021**, 2, 927-932		3
172	Long-Term Continuous Glucose Monitoring Using a Fluorescence-Based Biocompatible Hydrogel Glucose Sensor. **2021**, 10, e2001286		10
171	Preparation of PbS NPs/RGO/NiO nanosheet arrays heterostructure: Function-switchable self-powered photoelectrochemical biosensor for HO and glucose monitoring. *Biosensors and Bioelectronics*, **2020**, 173, 112803	11.8	17
170	A glucose oxidase-hemoglobin system for efficient oxysulfonylation of alkenes/alkynes in water. **2021**, 500, 111336		3
169	Two-dimensional transition metal dichalcogenides and their composites for lab-based sensing applications: Recent progress and future outlook. **2021**, 318, 112517		4
168	Development of portable CdS QDs screen-printed carbon electrode platform for electrochemiluminescence measurements and bioanalytical applications. **2021**, 225, 122029		4
167	A mediator-free self-powered glucose biosensor based on a hybrid glucose/MnO2 enzymatic biofuel cell. **2021**, 14, 707-714		6
166	Development of amperometric biosensors using VO2/GOx films for detection of glucose. **2021**, 121, 105337		5

165	Comparative investigation of fine bubble and macrobubble aeration on gas utility and biotransformation productivity. **2021**, 118, 130-141	2
164	Electrodeposition of nickel on electrospun carbon nanofiber mat electrode for electrochemical sensing of glucose. **2021**, 42, 262-269	11
163	Antibacterial effect and clinical potential of honey collected from Scaptotrigona bipunctata Lepeletier (1836) and Africanized bees Apis mellifera Latreille and their mixture. **2021**, 60, 308-318	
162	Biodiversity and Biotechnological Applications of Industrially Important Fungi: Current Research and Future Prospects. **2021**, 541-572	
161	Enzyme functionalized microgels enable precise regulation of dissolved oxygen and anaerobe culture. **2021**, 9, 100092	2
160	Metal-Organic Framework-Based Enzyme Biocomposites. **2021**, 121, 1077-1129	107
159	The facile synthesis of a CoO-NiNP composite as an electrochemical non-enzymatic sensing platform for small chemical molecules. **2021**, 13, 2229-2237	1
158	Halometallic ionic liquid incorporated graphene nanosheets (IMD-Si/FeCl4@GNS): A highly efficient catalyst for the reduction of 4-nitrophenol and nonenzymatic glucose sensing. **2021**, 4, 100101	2
157	A robust enzymeless glucose sensor based on tin nickel sulfide nanocomposite modified electrodes. **2021**, 127, 1	2
156	Mechanistic puzzles from Iron(III) TAML activators including substrate inhibition, zero-order and dual catalysis. **2021**,	1
155	ReviewNovel Carbon Nanomaterials Based Flexible Electrochemical Biosensors. **2021**, 168, 027504	5
154	Metal oxide based non-enzymatic electrochemical sensors for glucose detection. **2021**, 370, 137744	51
153	Electrochemical glucose biosensor based on an osmium redox polymer and glucose oxidase grafted to carbon nanotubes: A design-of-experiments optimisation of current density and stability. **2021**, 371, 137845	5
152	Bimetallic NiCo Metal-Organic Framework-Derived Hierarchical Spinel NiCo2O4 Microflowers for Efficient Non-Enzymatic Glucose Sensing. **2021**, 94, 1118-1124	6
151	Development of glucose oxidase-chitosan immobilized paper biosensor using screen-printed electrode for amperometric detection of Cr(VI) in water. **2021**, 11, 183	7
150	Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. **2021**, 2, 149-184	21
149	Glucose oxidase: Applications, sources, and recombinant production. **2021**,	9
148	In situ HO generation methods in the context of enzyme biocatalysis. **2021**, 145, 109744	5

147	Silk Fibroin As an Immobilization Matrix for Sensing Applications. **2021**, 7, 2015-2042		10
146	Fabrication of a microdialysis-based nonenzymatic microfluidic sensor for regular glucose measurement. **2021**, 333, 129569		5
145	Glucose biosensors for clinical and personal use. **2021**, 125, 106973		6
144	Glucose-responsive hydrogel-based microneedles containing phenylborate ester bonds and N-isopropylacrylamide moieties and their transdermal drug delivery properties. **2021**, 148, 110348		12
143	Precise and rapid solvent-assisted geometric protein self-patterning with submicron spatial resolution for scalable fabrication of microelectronic biosensors. *Biosensors and Bioelectronics*, **2021**, 177, 112968	11.8	1
142	Advances in controlled release of microcapsules and promising applications in self-healing of asphalt materials. **2021**, 294, 126270		5
141	Advances on ultra-sensitive electrospun nanostructured electrochemical and colorimetric sensors for diabetes mellitus detection. **2021**, 3, 321-321		11
140	Semi-circular sweep voltammetry. Bio-analytical applications. *Biosensors and Bioelectronics*, **2021**, 179, 113083	11.8	1
139	Entrapment of glucose oxidase within gold converts it to a general monosaccharide-oxidase. *Scientific Reports*, **2021**, 11, 10737	4.9	0
138	Precise positioning of enzymes within hierarchical polymer nanostructures for switchable bioelectrocatalysis. *Biosensors and Bioelectronics*, **2021**, 179, 113045	11.8	1
137	Immobilizing Redox Enzyme on Amino Functional Group-Integrated Tailor-Made Polyester Textile: High Loading, Stability, and Application in a Bio-Fenton System. **2021**, 9, 8879-8894		4
136	Natural Flavins: Occurrence, Role, and Noncanonical Chemistry. **2021**, 29-65		0
135	The development of advanced mathematical models for continuous glucose sensors. **2021**, 382, 138226		0
134	Flavoprotein Oxidases. **2021**, 225-244		0
133	Developments of the Electroactive Materials for Non-Enzymatic Glucose Sensing and Their Mechanisms. **2021**, 2, 347-389		1
132	Probing Selective Self-Assembly of Putrescine Oxidase with Controlled Orientation Using a Genetically Engineered Peptide Tag. **2021**, 37, 7536-7547		3
131	Enhanced Non-Enzymatic Glucose Detection Using a Flower-Like NiCo2O4 Spheres Modified Electrode. **2021**, 76, 993-1001		1
130	De Novo Approach to Encapsulating Biocatalysts into Synthetic Matrixes: From Enzymes to Microbial Electrocatalysts. **2021**,		3

129	Facile copper-based nanofibrous matrix for glucose sensing: Eenzymatic vs. non-enzymatic. **2021**, 140, 107751	8
128	Glucose electrocatalysts derived from mono- or dicarbene coordinated nickel(II) complexes and their mesoporous carbon composites. e6446	2
127	Fourth-generation glucose sensors composed of copper nanostructures for diabetes management: A critical review.. **2022**, 7, e10248	0
126	Continuous capillary-flow sensing of glucose and lactate in sweat with an electrochemical sensor based on functionalized graphene oxide. **2021**, 344, 130253	12
125	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. **2021**, 338, 71-79	1
124	The vast repertoire of carbohydrate oxidases: An overview. **2021**, 51, 107634	5
123	Organobase assisted synthesis of Co(OH)2 nanosheets enriched with oxygen vacancies for nonenzymatic glucose sensing at physiological pH. **2021**, 103, 165-174	1
122	A review: Evolution of enzymatic biofuel cells. **2021**, 298, 113483	7
121	A self-powered biosensor for glucose detection using modified pencil graphite electrodes as transducers. **2021**, 426, 131835	4
120	Novel enzyme-functionalized covalent organic frameworks for the colorimetric sensing of glucose in body fluids and drinks. **2021**, 5, 3859-3866	9
119	Nonenzymatic glucose detection using Au nanodots decorated Cu2O nanooctahedrons. **2021**, 11, 18479804210128	0
118	Micro- and Nanoelectrodes in Protein-Based Electrochemical Biosensors for Nanomedicine and Other Applications. 1-34	2
117	Polymerization of Chrysoidine with chemical and enzymatic oxidative preference: Synthesis, characterization, and spectroscopic study. **2018**, 29, 2515-2528	9
116	Polymer-Based Amperometric Biosensors. **1996**, 297-328	7
115	Encapsulation of Enzymes, Antibodies, and Bacteria. **2017**, 1-23	2
114	Enzyme Electrodes with Enzyme Immobilised by Solgel Technique. **2002**, 91-108	1
113	Sen testFrom single carbon enzyme electrode to mass production of biostrips. **1999**, 315-325	2
112	Hydrogels in Emerging Technologies for Type 1 Diabetes. **2021**, 121, 11458-11526	13

111	A facile synthesis of CoMnO nanosheets on reduced graphene oxide for non-enzymatic glucose sensing. **2021**, 32, 055501	9
110	Transient Measurement of Glucose Using On-Off Controllable Enzyme Electrode with Polypyrrole Membrane.. **1998**, 31, 29-34	4
109	Porous Platinum Black-Coated Minimally Invasive Microneedles for Non-Enzymatic Continuous Glucose Monitoring in Interstitial Fluid. **2020**, 11,	7
108	Nanobiocomposite Electrochemical Biosensor Utilizing Synergic Action of Neutral Red Functionalized Carbon Nanotubes. **2012**, 4, 220	3
107	A Carbon Monoxide Sensing Film Based on Hemoglobin Allostery. **2014**, 07, 173-180	7
106	Glucose Oxidation on Gold-modified Copper Electrode. **2013**, 34, 2685-2690	3
105	Unravelling the Occurrence of Mediator-Blood Protein Interactions via the Redox Catalysis of the Physiological Gasotransmitter Hydrogen Sulfide. **2021**, 6, 10059-10062	1
104	Enzyme-Mediated Kinetic Control of Fe-Tannic Acid Complexation for Interface Engineering. **2021**,	5
103	Facile fabrication of binder-free photoelectrode for sensitive glucose sensing. **2021**, 33,	0
102	Recent advances in the smart insulin delivery systems for the treatment of diabetes. **2021**, 161, 110829	0
101	Electrodeposited cobalt hexacyanoferrate electrode as a non-enzymatic glucose sensor under neutral conditions. **2021**, 1188, 339188	2
100	Encapsulated Probes. **2009**, 1-21	
99	Afm. **2008**, 129-152	
98	Modeling Biosensors at Steady State and Internal Diffusion Limitations. **2010**, 9-20	
97	Gold fibers as a platform for biosensing. **2012**, 733, 47-52	
96	Singapore's Next-Gen Researchers - (Vol. 16, No. 8, Full Issue). **2012**, 16,	
95	Converting Low-grade Biomass to Produce Energy Using Bio-fuel Cells. **2013**, 73-97	
94	Le difese naturali delle colonie di api contro le malattie. **2014**, 27-48	

93	Fiber-optic glucose and creatinine biosensors based on oxygen optrodes as transducers. **1992**, 34-39	
92	Novel Approaches to the Development of Mediated Biosensors and Enzyme Assay. **1993**, 211-230	
91	Immobilization of Glucose Oxidase in Poly(2,2?-bithiophene). **1994**, 325-332	
90	Micro-glucose sensor using enzyme/lipid complex. **1994**, 441-444	
89	Biological Elements. **1996**, 13-30	
88	Performance Factors. **1996**, 133-145	
87	Sol-Gel Derived Ceramic-Carbon Enzyme Electrodes: Glucose Oxidase as a Test Case. **1996**, 123-128	1
86	Important Applications. **1996**, 146-171	
85	Nanoelectrochemistry Applications Based on Electrospinning. 357-379	0
84	Microelectrode Designs. 137-168	1
83	Biocomposite Nanomaterials for Electrochemical Biosensors. **2016**, 1161-1194	
82	Nanomaterials: Conducting Polymers and Sensing. 5311-5335	
81	4 Advances in Thin Film and 2D Biosensors. **2016**, 101-138	
80	Nonenzymatic detection of glucose using BaCuO2 thin layer. **2017**, 56, 01AH02	
79	Encyclopedia of Complexity and Systems Science. **2017**, 1-41	
78	Nanomaterials: Conducting Polymers and Sensing. **2017**, 1035-1059	
77	Enzyme-Triggered Hydrogels for Pharmaceutical and Food Applications. **2018**, 159-177	
76	Immobilized Enzymes of the Class of Oxidoreductases in Technological Processes: Review. **2019**, 19, 59-72	1

75	A sensitive, fast, selective, and reusable enzyme-free glucose sensor based on monodisperse AuNi alloy nanoparticles on activated carbon support. **2021**, 291, 132718	4
74	Selective Enzymes at the Core of Advanced Electroanalytical Tools: The Bloom of Biosensors. **2021**, 303-362	0
73	Biosensors Utilizing Consecutive and Parallel Substrates Conversion. **2021**, 85-120	
72	Introduction to Modeling of Biosensors. **2021**, 1-47	
71	Application of Mathematical Modeling to Optimal Design of Biosensors. **2021**, 405-445	
70	Highly sensitive urine glucose detection with graphene field-effect transistors functionalized with electropolymerized nanofilms.	4
69	Electrochemical Characterization of Carbonized Typha Tassel Modified ScreenPrinted Electrode and Its Enzymatic Glucose Oxidation Application. 287-294	
68	Role of Nanostructures in Development of Energy-Efficient Electrochemical Non-enzymatic Glucose Sensors. **2020**, 199-207	
67	Peroxidase-Like Activity of Metal Nanoparticles for Biomedical Applications. **2020**, 109-126	1
66	Acrylamide-encapsulated glucose oxidase inhibits breast cancer cell viability. **2020**, 45, 811-816	0
65	Development of an Effective and Economic Biosensor for Diabetic Blood Monitoring Based on MWCNTs, Artificial Redox Mediator Ferrocene, Nafion Polymer and a Local Extracted and Purified Glucose Oxidase Enzyme from Penicillium Notatum F-158 Fungus.	0
64	Glucose oxidase production using a medicinal plant: Inula viscosa and optimization with Taguchi DOE.	1
63	A novel contemporary molecular imprinting technique for non-enzymatic selective glucose detection. **2022**, 148, 107786	0
62	Hydrogels as Smart Drug Delivery Systems: Recent Advances. **2021**, 173-201	
61	Smartphone sensor for pesticide monitoring using CuO modified screen printed electrodes. **2021**,	
60	Enzyme-Triggered Hydrogels for Pharmaceutical and Food Applications. **2022**, 1203-1221	
59	Fabrication of Fragment Antibody-Enzyme Complex as a Sensing Element for Immunosensing.. **2022**, 23,	1
58	Electrospun porous $La_{0.8}Sr_{0.2}CoO_3$/NiO nanofibers for highly sensitive non-enzymatic glucose detection.	1

57	Enzyme based amperometric wide field biosensors: Is single-molecule detection possible?.	1
56	Binder free 3D core-shell NiFe layered double hydroxide (LDH) nanosheets (NSs) supported on Cu foam as a highly efficient non-enzymatic glucose sensor.. **2022**, 615, 865-875	2
55	Improving Nonenzymatic Biosensing Performance of Electrospun Carbon Nanofibers decorated with Ni/Co Particles via Oxidation.. **2022**, 1	1
54	Enzyme based field effect transistor: State-of-the-art and future perspectives.	2
53	Facile hydrothermal synthesis CuO microflowers for non-enzymatic glucose sensors. **2022**, 17, 107-113	1
52	Glucose-responsive erythrocyte-bound nanoparticles for continuously modulated insulin release. 1	0
51	A Cu□NF□GO-functionalized carbon film indicated as a versatile□electrode for sensing of biomarkers using electropolymerized recognition elements. **2022**, 57, 6345-6360	
50	Biofunctionalization of Graphene-Based FET Sensors through Heterobifunctional Nanoscaffolds: Technology Validation toward Rapid COVID-19 Diagnostics and Monitoring.. **2022**, 2102526	3
49	Glucose Oxidase, an Enzyme "Ferrari": Its Structure, Function, Production and Properties in the Light of Various Industrial and Biotechnological Applications.. **2022**, 12,	5
48	Nanoporous Cauliflower-like Pd-Loaded Functionalized Carbon Nanotubes as an Enzyme-Free Electrocatalyst for Glucose Sensing at Neutral pH: Mechanism Study.. **2022**, 22,	2
47	Utilization of polyvinyl amine hydrolysis product in enhancing the catalytic properties of Co3O4 nanowires: toward potentiometric glucose bio-sensing application. 1	
46	Tumor-targeted biocatalyst with self-accelerated cascade reactions for enhanced synergistic starvation and photodynamic therapy. **2022**, 43, 101433	4
45	Water splitting-assisted electrocatalysis based on dendrimer-encapsulated Au nanoparticles for perspiration glucose analysis. **2022**, 912, 116254	0
44	Glucose oxidase-based enzyme immobilised on tapered optical fibre for reliability improvement in selective glucose sensing. **2022**, 259, 168970	0
43	Effect of Ethanol Consumption on the Accuracy of a Glucose Oxidase-Based Subcutaneous Glucose Sensor in Subjects with Type 1 Diabetes.. **2022**, 22,	
42	Chapter 4. Biological Consequences of the Blood□urface Interaction. 136-183	
41	Continuous Glucose Monitoring for Diabetes Management Based on Miniaturized Biosensors. **2022**, 149-175	
40	Protein Engineering for Designing Efficient Bioelectrodes. **2022**, 1-12	

39	Electroenzymatic Aromatic Nitration via an Electric Field and Electro-Mediator.		0
38	A membrane-less Glucose/O non-enzymatic fuel cell based on bimetallic Pd-Au nanostructure anode and air-breathing cathode: Towards micro-power applications at neutral pH.. *Biosensors and Bioelectronics*, **2022**, 210, 114335	11.8	1
37	Vitreoscilla hemoglobin enhances the catalytic performance of industrial oxidases in vitro.. **2022**,		0
36	Non-Enzymatic Glucose Sensors Involving Copper: An Electrochemical Perspective. *Critical Reviews in Analytical Chemistry*, 1-57	5.2	2
35	An Oxygen Insensitive Amperometric Glucose Biosensor Based on an Engineered Cellobiose Dehydrogenase: Direct Versus Mediated Electron Transfer Responses. *ChemElectroChem*,	4.3	0
34	Glucose oxidase converted into a general sugar-oxidase. *Scientific Reports*, **2022**, 12,	4.9	0
33	Synthesis of laser-induced cobalt oxide for non-enzymatic electrochemical glucose sensors. *ChemElectroChem*,	4.3	0
32	Wireless Lateral Flow Device for Biosensing.		2
31	Recent Advances in Glucose Responsive Insulin Delivery Systems: Novel Hydrogels and Future Applications.		1
30	Precursor Concentration Effects on Crystallite Size and Enzyme Immobilization Efficiency of Enzyme@ZIF-8 Composite. **2022**, 126877		0
29	Subcutaneous amperometric biosensors for continuous glucose monitoring in diabetes. **2022**, 124033		1
28	Impact of Different Storage Temperature on the Enzymatic Activity of Apis mellifera Royal Jelly. **2022**, 11, 3165		0
27	Nonenzymatic Glucose Sensor Based on Porous Co3O4 Nanoneedles. **2022**, 2022, 1-7		0
26	Enzyme-based amperometric biosensors: 60 years later Quo Vadis?. **2022**, 1234, 340517		1
25	Enzyme-integrated biomimetic cobalt metal-organic framework nanozyme for one-step cascade glucose biosensing via tandem catalysis. **2022**, 188, 108669		2
24	Fabrication, characterization of NiO Co3O4/rGO based nanohybrid and application in the development of non-enzymatic glucose sensor. **2023**, 648, 414404		0
23	Label-Free Micro Probe Optical Fiber Biosensor for Selective and Highly Sensitive Glucose Detection. **2022**, 1-1		0
22	Detecting Low-Brominated Diphenyl Ethers by Highly Sensitive Biosensors Based on the Blocking Effect on Glucose Oxidase.		0

21	Challenges and future prospects in bioelectrochemical sensors. **2023**, 99-110	0
20	Instant Facile Method for the In Situ Growth of Ni(OH)2 Nanohives on Nickel Foam for Non-Enzymatic Electrochemical Glucose Sensor. **2022**, 169, 117506	0
19	Reduced graphene oxide supported MXene based metal oxide ternary composite electrodes for non-enzymatic glucose sensor applications. **2022**, 12,	0
18	Hollow Spherical NiCo2O4 and Gold Nanoparticle Composite for Electrochemical Non-Enzymatic Glucose and H2O2 Sensing. **2022**, 169, 126508	0
17	Highly Sensitive and Selective Graphene Nanoribbon Based Enzymatic Glucose Screen-Printed Electrochemical Sensor. **2022**, 22, 9590	0
16	Progress of Enzymatic and Non-Enzymatic Electrochemical Glucose Biosensor Based on Nanomaterial-Modified Electrode. **2022**, 12, 1136	1
15	Glucose in the photobox a new method for photometric glucose determination in chemistry classes by using digital media.	0
14	Carbon Nanotube Fiber-Based Flexible Microelectrode for Electrochemical Glucose Sensors. **2023**, 8, 2272-2280	1
13	Smart and novel nanofiber membranes. **2023**, 603-623	0
12	Recent advances in the role of biocatalyst in biofuel cells and its application: An overview. 1-39	0
11	Bioelectrochemical synthesis of gluconate by glucose oxidase immobilized in a ferrocene based redox hydrogel. **2023**, 151, 108398	0
10	Review of oxygen-vacancies nanomaterials for non-enzymatic electrochemical sensors application. **2023**, 484, 215102	0
9	A tear-based battery charged by biofuel for smart contact lenses. **2023**, 110, 108344	0
8	NiNP/Cu-MOF-C/GCE for the the noninvasive detection of glucose in natural saliva samples. **2023**, 190, 108657	0
7	Electrochemical sensing of glucose and ascorbic acid via POM-based CNTs fiber electrode. **2023**, 293, 116446	0
6	Understanding the activity of glucose oxidase after exposure to organic solvents. **2023**, 11, 2409-2416	1
5	Recent advances in MXenes-based glucose biosensors. **2023**, 108241	0
4	Redox-Mediated Gold Nanoparticles with Glucose Oxidase and Egg White Proteins for Printed Biosensors and Biofuel Cells. **2023**, 24, 4657	1

3	Gold/MnO2 particles decorated on electrodeposited polyaniline toward non-enzymatic electrochemical sensor for glucose. **2023**, 18, 100175	0
2	Catalytic activity of glucose oxidase after dielectrophoretic immobilization on nanoelectrodes.	0
1	Immobilization of Glucose Oxidase on Sodium Alginate Microspheres. **2023**, 59, 57-64	0