

# CITATION REPORT

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**Glucose oxidase-graphene-chitosan modified electrode for direct electrochemistry and glucose sensing**

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#	Paper	IF	Citations
1075	Stable-on-the-Table Enzymes: Engineering the Enzyme-Graphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst.		
1074	Nitrogen-Doped Carbon Nanotubes Supported by Macroporous Carbon as an Efficient Enzymatic Biosensing Platform for Glucose.		
1073	Graphene-based materials in electrochemistry. <b>2010</b> , 39, 3157-80		1200
1072	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. <b>2010</b> , 4, 3959-68		660
1071	Nitrogen-doped graphene and its application in electrochemical biosensing. <b>2010</b> , 4, 1790-8		1777
1070	Electrochemical behavior and voltammetric determination of 4-aminophenol based on graphene-chitosan composite film modified glassy carbon electrode. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7102-7108	6.7	174
1069	Direct electrochemistry of glucose oxidase assembled on graphene and application to glucose detection. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8606-8614	6.7	210
1068	Immobilization, direct electrochemistry and electrocatalysis of hemoglobin on colloidal silver nanoparticles-chitosan film. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8738-8743	6.7	37
1067	Highly sensitive electrocatalytic biosensing of hypoxanthine based on functionalization of graphene sheets with water-soluble conducting graft copolymer. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 371-6	11.8	96
1066	Graphene Based Electrochemical Sensors and Biosensors: A Review. <i>Electroanalysis</i> , <b>2010</b> , 22, 1027-1036	3	2430
1065	Direct Electrochemistry and Bioelectrocatalysis of Microperoxidase-11 Immobilized on Chitosan-Graphene Nanocomposite. <i>Electroanalysis</i> , <b>2010</b> , 22, 1323-1328	3	48
1064	Fabrication of Bionzymatic Glucose Biosensor Based on Novel Gold Nanoparticles-Bacteria Cellulose Nanofibers Nanocomposite. <i>Electroanalysis</i> , <b>2010</b> , 22, 2543-2550	3	55
1063	Electrochemical Performance of Graphene as Effected by Electrode Porosity and Graphene Functionalization. <i>Electroanalysis</i> , <b>2010</b> , 22, 2834-2841	3	87
1062	Fabrication of a biocompatible and conductive platform based on a single-stranded DNA/graphene nanocomposite for direct electrochemistry and electrocatalysis. <b>2010</b> , 16, 8133-9		133
1061	Electrochemical oxidation behavior of guanine and adenine on graphene-chitosan composite film modified glassy carbon electrode and the simultaneous determination. <b>2010</b> , 45, 1707-1712		160
1060	An excellent enzyme biosensor based on Sb-doped SnO <sub>2</sub> nanowires. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 2436-41	11.8	51
1059	A sensitive and stable biosensor based on the direct electrochemistry of glucose oxidase assembled layer-by-layer at the multiwall carbon nanotube-modified electrode. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 213-9	11.8	113

1058	Chemical and biological sensing applications based on graphene field-effect transistors. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1727-30	11.8	107
1057	A novel nitromethane biosensor based on biocompatible conductive redox graphene-chitosan/hemoglobin/graphene/room temperature ionic liquid matrix. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 991-5	11.8	55
1056	Amperometric glucose biosensor based on a triangular silver nanoprisms/chitosan composite film as immobilization matrix. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1098-103	11.8	89
1055	Investigation of bioelectrocatalytic systems with PQQ-dependent GDH and carbonaceous materials. <b>2010</b> , 56, 83-87		2
1054	Electrochemical ascorbic acid sensor based on DMF-exfoliated graphene. <b>2010</b> , 20, 7864		202
1053	Immobilization-free direct electrochemical detection for DNA specific sequences based on electrochemically converted gold nanoparticles/graphene composite film. <b>2010</b> , 20, 9253		115
1052	Sensitive immunosensor for cancer biomarker based on dual signal amplification strategy of graphene sheets and multienzyme functionalized carbon nanospheres. <b>2010</b> , 82, 2989-95		404
1051	Highly Sensitive and Selective Dopamine Biosensor Fabricated with Silanized Graphene. <b>2010</b> , 114, 14915-14921		200
1050	Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. <b>2010</b> ,		7
1049	Electrochemical deposition of Pt nanoparticles on carbon nanotube patterns for glucose detection. <b>2010</b> , 135, 1726-30		44
1048	Covalent functionalization of graphene oxide with polyglycerol and their use as templates for anchoring magnetic nanoparticles. <b>2010</b> , 160, 2028-2036		101
1047	Direct electrochemistry and electrocatalysis of hemoglobin protein entrapped in graphene and chitosan composite film. <b>2010</b> , 81, 334-8		177
1046	A novel nonenzymatic hydrogen peroxide sensor based on MnO <sub>2</sub> /graphene oxide nanocomposite. <b>2010</b> , 82, 1637-41		299
1045	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. <b>2010</b> , 26, 15022-6		164
1044	Gold nanoparticles/L-cysteine/graphene composite based immobilization strategy for an electrochemical immunosensor. <b>2010</b> , 2, 1692		30
1043	Graphene electrochemistry: an overview of potential applications. <b>2010</b> , 135, 2768-78		438
1042	Development of an Amperometric Cholesterol Biosensor Based on Graphene/Pt Nanoparticle Hybrid Material. <b>2010</b> , 114, 21427-21433		248
1041	Titanium silicalite-1 zeolite microparticles for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <b>2011</b> , 136, 2037-9		20

1040	TiO <sub>2</sub> -decorated graphene nanohybrids for fabricating an amperometric acetylcholinesterase biosensor. <b>2011</b> , 136, 3349-54	81
1039	Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. <b>2011</b> , 39, 963-971	18
1038	In situ synthesis of gold nanoparticles on porous polyacrylonitrile nanofibers for sensing applications. <b>2011</b> , 136, 4545-51	27
1037	A DNA biosensor based on graphene paste electrode modified with Prussian blue and chitosan. <b>2011</b> , 136, 1946-51	67
1036	Catalytic oxidation and determination of ENADH using self-assembly hybrid of gold nanoparticles and graphene. <b>2011</b> , 136, 2735-40	56
1035	One-step electrochemical deposition of a graphene-ZrO <sub>2</sub> nanocomposite: Preparation, characterization and application for detection of organophosphorus agents. <b>2011</b> , 21, 8032	150
1034	Polyphenol-Reduced Graphene Oxide: Mechanism and Derivatization. <b>2011</b> , 115, 20740-20746	91
1033	Graphene electrochemistry: fabricating amperometric biosensors. <b>2011</b> , 136, 2084-9	54
1032	One-step electrochemical immunoassay of biomarker based on nanogold-functionalized graphene sensing platform. <b>2011</b> , 3, 1615	21
1031	Positive potential operation of a cathodic electrogenerated chemiluminescence immunosensor based on luminol and graphene for cancer biomarker detection. <b>2011</b> , 83, 3817-23	318
1030	Thrombus inducing property of atomically thin graphene oxide sheets. <b>2011</b> , 5, 4987-96	222
1029	Fabrication of gold nanoparticles on bilayer graphene for glucose electrochemical biosensing. <b>2011</b> , 21, 7604	132
1028	Highly qualified reduced graphene oxides: the best chemical reduction. <b>2011</b> , 47, 9681-3	55
1027	Synthesis and characterization of carboxylated polybenzimidazole and its use as a highly sensitive and selective enzyme-free H <sub>2</sub> O <sub>2</sub> sensor. <b>2011</b> , 21, 7254	29
1026	Graphene-Prussian blue/gold nanoparticles based electrochemical immunoassay of carcinoembryonic antigen. <b>2011</b> , 3, 2082	20
1025	Graphene and graphene-based nanomaterials: the promising materials for bright future of electroanalytical chemistry. <b>2011</b> , 136, 4631-40	121
1024	A novel glucose sensor based on ordered mesoporous carbon-Au nanoparticles nanocomposites. <b>2011</b> , 83, 1386-91	69
1023	Functionalization of graphene with electrodeposited Prussian blue towards amperometric sensing application. <b>2011</b> , 85, 76-81	72

1022	Graphene based RF/microwave impedance sensing of DNA. <b>2011,</b>		3
1021	Functionalization of graphene and graphene oxide for biosensing and imaging. <b>2011,</b>		
1020	Self assembly of acetylcholinesterase on a gold nanoparticles-graphene nanosheet hybrid for organophosphate pesticide detection using polyelectrolyte as a linker. <b>2011, 21, 5319</b>		196
1019	. <b>2011,</b>		14
1018	Electrochemical Sensing of Nitric Oxide on Electrochemically Reduced Graphene-Modified Electrode. <b>2011, 2011, 1-6</b>		5
1017	Fabrication of Pt nanoparticles-decorated CVD diamond electrode for biosensor applications. <b>2011, 27, 985-9</b>		10
1016	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. <b>2011, 29, 205-12</b>		1150
1015	Layer-by-layer self-assembly of multilayer films of polyelectrolyte/Ag nanoparticles for enzymeless hydrogen peroxide detection. <b>2011, 520, 554-557</b>		23
1014	Application of an exfoliated graphite nanoplatelet-modified electrode for the determination of quitozen. <b>2011, 31, 1553-1557</b>		2
1013	Field-effect saccharide sensing using AlGa <sub>N</sub> /Ga <sub>N</sub> heterostructures and boronic acid based chemical receptors. <b>2011, 160, 1078-1081</b>		8
1012	Preparation of Ag nanoparticle-decorated polypyrrole colloids and their application for H <sub>2</sub> O <sub>2</sub> detection. <b>2011, 13, 785-787</b>		73
1011	Flow-injection amperometric glucose biosensors based on graphene/Nafion hybrid electrodes. <i>Electrochimica Acta</i> , <b>2011, 56, 9721-9726</b>	6.7	53
1010	Direct electron transfer from glucose oxidase immobilized on a nano-porous glassy carbon electrode. <i>Electrochimica Acta</i> , <b>2011, 56, 10101-10106</b>	6.7	24
1009	A novel H <sub>2</sub> O <sub>2</sub> amperometric biosensor based on gold nanoparticles/self-doped polyaniline nanofibers. <i>Bioelectrochemistry</i> , <b>2011, 82, 87-94</b>	5.6	70
1008	Direct electrochemistry and electrocatalysis of hemoglobin on chitosan-room temperature ionic liquid-TiO <sub>2</sub> -graphene nanocomposite film modified electrode. <i>Bioelectrochemistry</i> , <b>2011, 82, 125-30</b>	5.6	82
1007	Recent advances in graphene-based biosensors. <i>Biosensors and Bioelectronics</i> , <b>2011, 26, 4637-48</b>	11.8	1025
1006	Electrochemical synthesis of reduced graphene sheet-AuPd alloy nanoparticle composites for enzymatic biosensing. <i>Biosensors and Bioelectronics</i> , <b>2011, 29, 159-66</b>	11.8	186
1005	Multifunctional carbon nanotubes for direct electrochemistry of glucose oxidase and glucose bioassay. <i>Biosensors and Bioelectronics</i> , <b>2011, 30, 107-11</b>	11.8	134

1004	One-step "green" preparation of graphene nanosheets and carbon nanospheres mixture by electrolyzing graphite rod and its application for glucose biosensing. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 30, 112-7	11.8	35
1003	The effect of synthesis media on the properties of substituted polyaniline/chitosan composites. <b>2011</b> , 346, 2063-9		27
1002	Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. <b>2011</b> , 40, 2644-72		1085
1001	An ultra sensitive saccharides detection assay using carboxyl functionalized chitosan containing : nanoparticlesprobe. <b>2011</b> , 3, 217-226		20
1000	Electrochemistry of graphene: not such a beneficial electrode material?. <b>2011</b> , 1, 978		201
999	Graphene in biomedicine: opportunities and challenges. <b>2011</b> , 6, 317-24		572
998	Graphene-based hybrid materials and devices for biosensing. <b>2011</b> , 63, 1352-60		230
997	Method for effective immobilization of Ag nanoparticles/graphene oxide composites on single-stranded DNA modified gold electrode for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <b>2011</b> , 46, 5260-5266		56
996	Glassy carbon electrode modified with a film composed of Ni(II), quercetin and graphene for enzyme-less sensing of glucose. <b>2011</b> , 174, 289-294		19
995	Electrochemical sensors based on graphene materials. <b>2011</b> , 175, 1-19		259
994	A glassy carbon electrode modified with graphene and tyrosinase immobilized on platinum nanoparticles for sensing organophosphorus pesticides. <b>2011</b> , 175, 129-135		40
993	Carbon nanotubes/pentacyanoferrate-modified chitosan nanocomposites platforms for reagentless glucose biosensing. <b>2011</b> , 401, 883-9		13
992	Effects of morphology of nanostructured ZnO on direct electrochemistry and biosensing properties of glucose oxidase. <b>2011</b> , 656, 198-205		55
991	Functionalized-graphene modified graphite electrode for the selective determination of dopamine in presence of uric acid and ascorbic acid. <i>Bioelectrochemistry</i> , <b>2011</b> , 81, 104-8	5.6	111
990	Impedimetric immunosensor doped with reduced graphene sheets fabricated by controllable electrodeposition for the non-labelled detection of bacteria. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 1959-64	11.8	125
989	Enhanced direct electrochemistry of glucose oxidase and biosensing for glucose via synergy effect of graphene and CdS nanocrystals. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2252-7	11.8	189
988	Glucose oxidase and ferrocene labels immobilized at Au/TiO <sub>2</sub> nanocomposites with high load amount and activity for sensitive immunoelectrochemical measurement of ProGRP biomarker. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3838-44	11.8	69
987	Nanoflake-like SnS <sub>2</sub> matrix for glucose biosensing based on direct electrochemistry of glucose oxidase. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4337-41	11.8	77

986	A novel hydrogen peroxide biosensor based on the BPT/AuNPs/graphene/HRP composite. <b>2011</b> , 54, 1645-1650		9
985	Graphene-based materials: synthesis, characterization, properties, and applications. <b>2011</b> , 7, 1876-902		1968
984	Functional composite materials based on chemically converted graphene. <b>2011</b> , 23, 1089-115		859
983	Functionalized Graphene for Biosensing Applications. <b>2011</b> , 221-235		
982	Current Frontiers in Electrochemical Biosensors Using Chitosan Nanocomposites. <b>2011</b> , 237-246		1
981	Graphene and Related Materials in Electrochemical Sensing. <i>Electroanalysis</i> , <b>2011</b> , 23, 803-826	3	225
980	Electrocatalytic Oxidation of NADH on Functionalized Graphene Modified Graphite Electrode. <i>Electroanalysis</i> , <b>2011</b> , 23, 842-849	3	24
979	Preparation and Application of Mediator-Free H <sub>2</sub> O <sub>2</sub> Biosensors of Graphene-Fe <sub>3</sub> O <sub>4</sub> Composites. <i>Electroanalysis</i> , <b>2011</b> , 23, 862-869	3	69
978	Analytical Characteristics of Electrochemical Biosensor Using Pt-Dispersed Graphene on Boron Doped Diamond Electrode. <i>Electroanalysis</i> , <b>2011</b> , 23, 2408-2414	3	20
977	Fabrication of polymeric ionic liquid/graphene nanocomposite for glucose oxidase immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2632-7	11.8	178
976	Palladium nanoparticle/chitosan-grafted graphene nanocomposites for construction of a glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3456-63	11.8	190
975	Direct electrochemistry of glucose oxidase and biosensing for glucose based on boron-doped carbon-coated nickel modified electrode. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3801-5	11.8	32
974	Self-assembled graphene platelet-glucose oxidase nanostructures for glucose biosensing. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4491-6	11.8	158
973	Novel electrochemical sensor based on functionalized graphene for simultaneous determination of adenine and guanine in DNA. <b>2011</b> , 82, 543-9		219
972	A graphene-based electrochemical sensor for sensitive determination of caffeine. <b>2011</b> , 84, 421-6		88
971	Ionic liquid-functionalized graphene as modifier for electrochemical and electrocatalytic improvement: comparison of different carbon electrodes. <b>2011</b> , 690, 169-74		43
970	A highly sensitive and rapid organophosphate biosensor based on enhancement of CdS-decorated graphene nanocomposite. <b>2011</b> , 695, 84-8		105
969	TiO <sub>2</sub> -graphene nanocomposite for electrochemical sensing of adenine and guanine. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 4685-4690	6.7	167

968	A novel electrochemical DNA biosensor based on graphene and polyaniline nanowires. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2676-2681	6.7	214
967	Electrochemical behavior of catechol, resorcinol and hydroquinone at graphene-chitosan composite film modified glassy carbon electrode and their simultaneous determination in water samples. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2748-2753	6.7	314
966	A simple approach for immobilization of gold nanoparticles on graphene oxide sheets by covalent bonding. <b>2011</b> , 257, 3350-3357		91
965	Direct electrochemistry of cholesterol oxidase on MWCNTs. <b>2011</b> , 651, 24-29		41
964	Electrochemical behavior of graphene doped carbon paste electrode and its application for sensitive determination of ascorbic acid. <b>2011</b> , 157, 110-114		109
963	ZnO modified gold disc: A new route to efficient glucose sensing. <b>2011</b> , 156, 383-387		11
962	Surface modification of electrospun spherical activated carbon for a high-performance biosensor electrode. <b>2011</b> , 158, 151-158		15
961	Flexible Layer-by-Layer Self-Assembled Graphene Based Glucose Biosensors. <b>2011</b> ,		
960	Techniques related to graphene biosensors and their potential combination with optical fibres. <b>2011</b> , 26, 173-183		8
959	Evaluation of Graphene and Graphene Derivatives for RF-Impedance Based Sensing. <b>2011</b> , 1303, 117		1
958	Enhanced Direct Electrochemistry of Glucose Oxidase and Glucose Biosensing Based on TiO <sub>2</sub> -Decorated Graphene Nanohybrids. <b>2012</b> , 496, 507-510		1
957	Dopamine sensor based on a boron-doped diamond electrode modified with a polyaniline/Au nanocomposites in the presence of ascorbic acid. <b>2012</b> , 28, 583-7		28
956	Graphene-based materials for biosensing and bioimaging. <b>2012</b> , 37, 1290-1296		43
955	3D graphene foam as a monolithic and macroporous carbon electrode for electrochemical sensing. <b>2012</b> , 4, 3129-33		264
954	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. <b>2012</b> , 42, 875-881		35
953	Graphenes in chemical sensors and biosensors. <b>2012</b> , 39, 87-113		170
952	The electrochemical performance of graphene modified electrodes: an analytical perspective. <b>2012</b> , 137, 1815-23		73
951	Graphene-Au nanoparticles nanocomposite film for selective electrochemical determination of dopamine. <b>2012</b> , 4, 1725		119



950	Graphene-carbon nanotubes modified graphite electrode for the determination of nicotinamide adenine dinucleotide and fabrication of alcohol biosensor. <b>2012</b> , 16, 3189-3199	20
949	Poly(alizarin red)/graphene modified glassy carbon electrode for simultaneous determination of purine and pyrimidine. <b>2012</b> , 752, 94-100	38
948	Cholesterol biosensor based on direct electron transfer of cholesterol oxidase on multi-wall carbon nanotubes. <b>2012</b> ,	1
947	Gold-graphene nanocomposite based ultrasensitive electrochemical glucose sensor. <b>2012</b> ,	
946	Synthesis of Ag nanoparticle-decorated 2,4,6-tris(2-pyridyl)-1,3,5-triazine nanobelts and their application for H <sub>2</sub> O <sub>2</sub> and glucose detection. <b>2012</b> , 137, 939-43	37
945	Nano-sized biosensors for medical applications. <b>2012</b> , 65-102	5
944	Efficient immobilization of glucose oxidase by in situ photo-cross-linking for glucose biosensing. <b>2012</b> , 97, 438-44	11
943	Electrochemical detection of dopamine in the presence of ascorbic acid using PVP/graphene modified electrodes. <b>2012</b> , 97, 557-62	115
942	Mediatorless amperometric glucose biosensing using 3-aminopropyltriethoxysilane-functionalized graphene. <b>2012</b> , 99, 22-8	39
941	Graphene oxide: preparation, functionalization, and electrochemical applications. <b>2012</b> , 112, 6027-53	2515
940	3D graphene-cobalt oxide electrode for high-performance supercapacitor and enzymeless glucose detection. <b>2012</b> , 6, 3206-13	1371
939	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. <b>2012</b> , 12, 5996-6022	368
938	Recent advances in polymeric materials used as electron mediators and immobilizing matrices in developing enzyme electrodes. <b>2012</b> , 12, 923-53	44
937	CHAPTER 2:Chitosan-based Nanocomposites. <b>2012</b> , 33-68	10
936	A facile route to the synthesis copper oxide/reduced graphene oxide nanocomposites and electrochemical detection of catechol organic pollutant. <b>2012</b> , 14, 6710	161
935	Electrochemical sensor based on Au nanoparticles decorated boron-doped diamond electrode using ferrocene-tagged aptamer for proton detection. <b>2012</b> , 677-680, 139-144	26
934	Theoretical approaches to graphene and graphene-based materials. <b>2012</b> , 7, 180-200	109
933	Reduced graphene oxide/PAMAM-silver nanoparticles nanocomposite modified electrode for direct electrochemistry of glucose oxidase and glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 36, 179-85	11.8 140

932	Application of metalloporphyrin grafted-graphene oxide for the construction of a novel salicylate-selective electrode. <b>2012</b> , 16, 1140-1147		7
931	Graphene-based electrodes. <b>2012</b> , 24, 5979-6004		756
930	Label-free polypeptide-based enzyme detection using a graphene-nanoparticle hybrid sensor. <b>2012</b> , 24, 6081-7		42
929	A glassy carbon electrode modified with electrochemically reduced graphene for simultaneous determination of guanine and adenine. <b>2012</b> , 4, 2935		27
928	Biomedical Applications of Graphene: Opportunities and Challenges. <b>2012</b> , 373-408		
927	Charging of unfunctionalized graphene in organic solvents. <b>2012</b> , 4, 425-8		40
926	Rational synthesis of graphene-metal coordination polymer composite nanosheet as enhanced materials for electrochemical biosensing. <b>2012</b> , 22, 13166		42
925	Electrochemical activity of glucose oxidase on a poly(ionic liquid)-Au nanoparticle composite. <b>2012</b> , 4, 2311-7		53
924	Oxidative stress-mediated antibacterial activity of graphene oxide and reduced graphene oxide in <i>Pseudomonas aeruginosa</i> . <b>2012</b> , 7, 5901-14		499
923	Electrochemical determination of serotonin on glassy carbon electrode modified with various graphene nanomaterials. <b>2012</b> , 174, 285-291		67
922	Direct electrochemistry of glucose oxidase and its biosensing to glucose based on the Chit-MWCNTs/AuNRs modified gold electrode. <b>2012</b> , 685, 86-90		15
921	Nonenzymatic amperometric determination of glucose by CuO nanocubes-graphene nanocomposite modified electrode. <i>Bioelectrochemistry</i> , <b>2012</b> , 88, 156-63	5.6	177
920	Biocompatibility of CS-PPy nanocomposites and their application to glucose biosensor. <i>Bioelectrochemistry</i> , <b>2012</b> , 88, 1-7	5.6	38
919	An aqueous media based approach for the preparation of a biosensor platform composed of graphene oxide and Pt-black. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 38, 314-20	11.8	69
918	RECENT ADVANCES IN GRAPHENE-BASED NANOMATERIALS FOR BIOMEDICAL APPLICATIONS. <b>2012</b> , 02, 1230001		34
917	Graphene electroanalysis: inhibitory effects in the stripping voltammetry of cadmium with surfactant free graphene. <b>2012</b> , 137, 420-3		13
916	Carbon. <b>2012</b> , 41-79		
915	Highly sensitive and selective dopamine biosensor based on a phenylethynyl ferrocene/graphene nanocomposite modified electrode. <b>2012</b> , 137, 4577-83		63

914	Enzymeless Hydrogen Peroxide Sensor Based on Mn-containing Conducting Metallopolymer. <b>2012</b> , 47, 1161-1164	0
913	Recent advances on synthesis and application of graphene as novel sensing materials in analytical chemistry. <b>2012</b> , 31,	9
912	Non-enzymatic analysis of glucose on printed films based on multi-walled carbon nanotubes. <b>2012</b> , 179, 157-161	2
911	Amperometric Biosensors. <b>2012</b> , 1-83	28
910	CVD graphene vs. highly ordered pyrolytic graphite for use in electroanalytical sensing. <b>2012</b> , 137, 833-9	32
909	Tin disulfide nanoflakes decorated with gold nanoparticles for direct electrochemistry of glucose oxidase and glucose biosensing. <b>2012</b> , 179, 265-272	22
908	Direct Electrochemistry of Glucose Oxidase at a Gold Electrode Modified with Graphene Nanosheets. <b>2012</b> , 45, 746-753	24
907	A graphene-based electrochemical competitive immunosensor for the sensitive detection of okadaic acid in shellfish. <b>2012</b> , 4, 7593-9	64
906	Interfacial structures and properties of organic materials for biosensors: an overview. <b>2012</b> , 12, 15036-62	49
905	Graphene Doped Molecularly Imprinted Electrochemical Sensor for Uric Acid. <b>2012</b> , 45, 2717-2727	21
904	Simple fabrication of glucose biosensor based on Graphene-Nafion composite by amperometric detections. <b>2012</b> ,	3
903	Biological and chemical sensors based on graphene materials. <b>2012</b> , 41, 2283-307	1384
902	Electrochemically reduced single-layer MoS <sub>2</sub> nanosheets: characterization, properties, and sensing applications. <b>2012</b> , 8, 2264-70	333
901	A facile route for constructing a graphene-chitosan-ZrO <sub>2</sub> composite for direct electron transfer and glucose sensing. <b>2012</b> , 2, 8172	43
900	Affinity and enzyme-based biosensors: recent advances and emerging applications in cell analysis and point-of-care testing. <b>2012</b> , 404, 1181-96	60
899	Graphene electrochemistry: fundamental concepts through to prominent applications. <b>2012</b> , 41, 6944-76	497
898	Ionic liquid-functionalized graphene for fabricating an amperometric acetylcholinesterase biosensor. <b>2012</b> , 137, 3160-5	15
897	Facile Fabrication of a Graphene-based Electrochemical Biosensor for Glucose Detection. <b>2012</b> , 30, 1163-1167	16

896	Functionalized graphene oxide in enzyme engineering: a selective modulator for enzyme activity and thermostability. <b>2012</b> , 6, 4864-75		173
895	Nonenzymatic glucose sensor based on glassy carbon electrode modified with a nanocomposite composed of nickel hydroxide and graphene. <b>2012</b> , 177, 103-109		81
894	MoO <sub>3</sub> nanowire-based amperometric biosensor for l-lactate detection. <b>2012</b> , 16, 2197-2201		15
893	Nanomaterial-based biosensor as an emerging tool for biomedical applications. <b>2012</b> , 40, 1384-97		59
892	Biomimetic synthesis of porous ZnO nanostructures for glucose direct electrochemical biosensor. <b>2012</b> , 12, 1033-1038		33
891	Visible light driven photodynamic anticancer activity of graphene oxide/TiO <sub>2</sub> hybrid. <b>2012</b> , 50, 994-1004		126
890	Direct electron transfer in a mediator-free glucose oxidase-based carbon nanotube-coated biosensor. <b>2012</b> , 50, 4010-4020		62
889	A novel strategy to synthesize Au nanoplates and their application for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <i>Electrochimica Acta</i> , <b>2012</b> , 60, 13-16	6.7	45
888	In situ synthesis of polydopamine@g hollow microspheres for hydrogen peroxide sensing. <i>Electrochimica Acta</i> , <b>2012</b> , 61, 31-35	6.7	32
887	Direct electrochemistry and electrocatalysis of horseradish peroxidase immobilized in graphene oxidenafion nanocomposite film. <i>Electrochimica Acta</i> , <b>2012</b> , 65, 122-126	6.7	39
886	Novel urchin-like In <sub>2</sub> O <sub>3</sub> @chitosan modified electrode for direct electrochemistry of glucose oxidase and biosensing. <i>Electrochimica Acta</i> , <b>2012</b> , 70, 325-330	6.7	35
885	The electrical properties of a sandwich of electrodeposited polypyrrole nanofibers between two layers of reduced graphene oxide nanosheets. <i>Electrochimica Acta</i> , <b>2012</b> , 72, 53-60	6.7	37
884	Direct electrochemistry of sarcosine oxidase on graphene, chitosan and silver nanoparticles modified glassy carbon electrode and its biosensing for hydrogen peroxide. <i>Electrochimica Acta</i> , <b>2012</b> , 71, 294-301	6.7	49
883	Electrochemistry of horseradish peroxidase entrapped in graphene and dsDNA composite modified carbon ionic liquid electrode. <i>Electrochimica Acta</i> , <b>2012</b> , 75, 381-386	6.7	23
882	Electrochemical sensing of trichloroacetic acid based on silver nanoparticles doped chitosan hydrogel film prepared with controllable electrodeposition. <i>Electrochimica Acta</i> , <b>2012</b> , 76, 410-415	6.7	27
881	Simultaneous determination of L-cysteine and L-tyrosine using Au-nanoparticles/poly-eriochrome black T film modified glassy carbon electrode. <i>Bioelectrochemistry</i> , <b>2012</b> , 86, 38-45	5.6	86
880	Graphene nanosheets modified glassy carbon electrode for simultaneous detection of heroine, morphine and noscapine. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 205-11	11.8	93
879	Layer-by-layer self-assembly and electrochemistry: applications in biosensing and bioelectronics. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 1-10	11.8	178

878	Enhanced electrochemiluminescence of CdSe quantum dots composited with graphene oxide and chitosan for sensitive sensor. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 369-75	11.8	100
877	Layer-by-layer self-assembly of functionalized graphene nanoplates for glucose sensing in vivo integrated with on-line microdialysis system. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 32, 118-26	11.8	83
876	Ultrasensitive electrochemical immunosensor based on Au nanoparticles dotted carbon nanotube-graphene composite and functionalized mesoporous materials. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 33, 29-35	11.8	139
875	Triplex signal amplification for electrochemical DNA biosensing by coupling probe-gold nanoparticles-graphene modified electrode with enzyme functionalized carbon sphere as tracer. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 33, 228-32	11.8	85
874	New materials for biological fuel cells. <b>2012</b> , 15, 166-173		129
873	Glucose oxidase and graphene bionanocomposite bridged by ionic liquid unit for glucose biosensing application. <b>2012</b> , 161, 728-733		75
872	Direct electron transfer and biosensing of glucose oxidase immobilized at multiwalled carbon nanotube-alumina-coated silica modified electrode. <b>2012</b> , 32, 983-987		19
871	Synthesis of chitosan-Prussian blue-graphene composite nanosheets for electrochemical detection of glucose based on pseudobienzyme channeling. <b>2012</b> , 162, 334-340		49
870	Ultrasensitive platinum nanocubes enhanced amperometric glucose biosensor based on chitosan and nafion film. <b>2012</b> , 163, 115-120		57
869	Myoglobin within graphene oxide sheets and Nafion composite films as highly sensitive biosensor. <b>2012</b> , 164, 82-89		33
868	A highly sensitive nitric oxide biosensor based on hemoglobin/chitosan/graphene/hexadecyltrimethylammonium bromide nanomatrix. <b>2012</b> , 166-167, 444-450		40
867	Direct electrochemistry and electrocatalysis of hemoglobin immobilized on an interlaced Co(OH) <sub>2</sub> nanosheet-based three-dimensional macroporous film. <b>2012</b> , 168, 277-282		7
866	Electrochemical sensing platform based on the quaternized cellulose nanoparticles/acetylene black/enzymes composite film. <b>2012</b> , 168, 329-335		14
865	Chemical functionalization of graphene and its applications. <b>2012</b> , 57, 1061-1105		1351
864	Direct electrochemistry of hemoglobin based on chitosan/ionic liquid/ferrocene/graphene composite film. <b>2012</b> , 47, 1171-1177		26
863	A hydrogen peroxide biosensor based on direct electrochemistry of hemoglobin in palladium nanoparticles/graphene-chitosan nanocomposite film. <b>2012</b> , 166, 764-73		30
862	Layer-by-layer self-assembled multilayer films of single-walled carbon nanotubes and tin disulfide nanoparticles with chitosan for the fabrication of biosensors. <b>2013</b> , 128, 647-652		23
861	Direct electron transfer from glucose oxidase immobilized on an overoxidized polypyrrole film decorated with Au nanoparticles. <b>2013</b> , 103, 566-71		43

860	A sensitive hydrogen peroxide and glucose biosensor based on gold/silver core-shell nanorods. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 39-44	6.7	62
859	Direct electrochemistry and electrocatalysis of glucose oxidase on three-dimensional interpenetrating, porous graphene modified electrode. <i>Electrochimica Acta</i> , <b>2013</b> , 98, 48-53	6.7	54
858	Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors. <b>2013</b> , 13, 1018-1024	12	
857	Synthesis of highly dispersed titanium dioxide nanoclusters on reduced graphene oxide for increased glucose sensing. <b>2013</b> , 57, 470-476		34
856	Protein and polysaccharide-composite sol-gel silicate film for an interference-free amperometric glucose biosensor. <b>2013</b> , 111, 523-9		19
855	ZnS nanoparticles electrodeposited onto ITO electrode as a platform for fabrication of enzyme-based biosensors of glucose. <b>2013</b> , 33, 2031-6		16
854	Applications of Nanomaterials in Sensors and Diagnostics. <b>2013</b> ,		24
853	Highly sensitive reduced graphene oxide impedance sensor harnessing $\pi$ -stacking interaction mediated direct deposition of protein probes. <b>2013</b> , 5, 3591-8		35
852	A cost-effective self-sensing biosensor for detection of biological species at ultralow concentrations. <b>2013</b> , 113, 224905		9
851	Amperometric detection of glucose using Prussian blue-graphene oxide modified platinum electrode. <b>2013</b> , 5, 1764		23
850	Application of graphene oxide sheets incorporated in the porous calcium alginate films on the glassy carbon electrode for biosensor construction based on myoglobin. <b>2013</b> , 43, 975-984		7
849	Conducting polyaniline-graphene oxide fibrous nanocomposites: preparation, characterization and simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid. <b>2013</b> , 3, 14428		107
848	On the Electrochemical Response of Porous Functionalized Graphene Electrodes. <b>2013</b> , 117, 16076-16086		74
847	Nanomaterials for bio-functionalized electrodes: recent trends. <b>2013</b> , 1, 4878-4908		260
846	Three-dimensional graphene micropillar based electrochemical sensor for phenol detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 387-92	11.8	88
845	Graphene bridged enzyme electrodes for glucose biosensing application. <b>2013</b> , 138, 2567-75		34
844	Direct electron transfer reaction of laccase on a glassy carbon electrode modified with 1-aminopyrene functionalized reduced graphene oxide. <b>2013</b> , 3, 18036		23
843	Direct electrochemistry of glucose oxidase on sulfonated graphene/gold nanoparticle hybrid and its application to glucose biosensing. <b>2013</b> , 17, 2487-2494		16

842	Electrochemical biosensors on platforms of graphene. <b>2013</b> , 49, 9526-39		134
841	Electrochemical study and application on shikonin at poly(diallyldimethylammonium chloride) functionalized graphene sheets modified glass carbon electrode. <b>2013</b> , 29, 798-805		10
840	A novel mesoporous silica nanosphere matrix for the immobilization of proteins and their applications as electrochemical biosensor. <b>2013</b> , 104, 116-21		26
839	Biobased chitosan hybrid aerogels with superior adsorption: Role of graphene oxide in CO <sub>2</sub> capture. <b>2013</b> , 3, 16011		111
838	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 331-7	11.8	58
837	Surface Modification of Graphene. <b>2013</b> , 35-86		2
836	Direct electrochemistry of glucose oxidase based on Nafion-Graphene-GOD modified gold electrode and application to glucose detection. <i>Materials Letters</i> , <b>2013</b> , 108, 88-91	3.3	48
835	Simultaneous determination of dopamine and uric acid using layer-by-layer graphene and chitosan assembled multilayer films. <b>2013</b> , 117, 359-65		41
834	Glucose selective surface plasmon resonance-based bis-boronic acid sensor. <b>2013</b> , 138, 7140-5		45
833	Nanoenergy. <b>2013</b> ,		4
832	Enzyme-capped relay-functionalized mesoporous carbon nanoparticles: effective bioelectrocatalytic matrices for sensing and biofuel cell applications. <b>2013</b> , 7, 11358-68		86
831	Fabrication of glucose biosensor for whole blood based on Au/hyperbranched polyester nanoparticles multilayers by antibiofouling and self-assembly technique. <b>2013</b> , 776, 17-23		27
830	Preparation of sulfonated poly(ether ether ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. <b>2013</b> , 48, 1724-1735		46
829	Electro-reduced graphene oxide film modified glassy carbon electrode as an electrochemical sensor for sibutramine. <b>2013</b> , 5, 7090		9
828	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. <b>2013</b> , 804, 84-91		47
827	An overview of the engineered graphene nanostructures and nanocomposites. <b>2013</b> , 3, 22790		167
826	Electrochemical co-reduction synthesis of graphene/nano-gold composites and its application to electrochemical glucose biosensor. <i>Electrochimica Acta</i> , <b>2013</b> , 112, 774-782	6.7	79
825	Porous-reduced graphene oxide for fabricating an amperometric acetylcholinesterase biosensor. <b>2013</b> , 185, 706-712		63



824	A glucose biosensor based on direct electron transfer of glucose oxidase immobilized onto glassy carbon electrode modified with nitrophenyl diazonium salt. <i>Electrochimica Acta</i> , <b>2013</b> , 112, 640-647	6.7	30
823	Electrochemically Reduced Graphene Oxide Film Modified Electrode for Detection of Hydrogen Peroxide. <b>2013</b> , 538, 165-168		1
822	A novel nanomachined flow channel glucose sensor based on an alumina membrane. <b>2013</b> , 5, 7022		4
821	Electrocatalytic activity of nitrogen-doped graphene synthesized via a one-pot hydrothermal process towards oxygen reduction reaction. <b>2013</b> , 227, 185-190		149
820	Facile preparation of novel core-shell enzyme-Au-polydopamine-Fe <sub>3</sub> O <sub>4</sub> magnetic bionanoparticles for glucose sensor. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 42, 293-9	11.8	85
819	Direct electrodeposition of a biocomposite consisting of reduced graphene oxide, chitosan and glucose oxidase on a glassy carbon electrode for direct sensing of glucose. <b>2013</b> , 180, 127-135		33
818	Graphene quantum dots as a new substrate for immobilization and direct electrochemistry of glucose oxidase: application to sensitive glucose determination. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 498-504	11.8	258
817	A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 70-5	11.8	285
816	Nanomaterial based self-referencing microbiosensors for cell and tissue physiology research. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 40, 127-34	11.8	16
815	Microbial reduction of graphene oxide by Escherichia coli: a green chemistry approach. <b>2013</b> , 102, 772-7		150
814	Ionic liquid/graphene oxide as a nanocomposite for improving the direct electrochemistry and electrocatalytic activity of glucose oxidase. <b>2013</b> , 17, 183-189		14
813	Electrochemical reduction of dioxygen on a thioglycolic acid-capped CdTe quantum dots modified glassy carbon electrode. <b>2013</b> , 43, 15-19		4
812	Co-immobilization of glucose oxidase and xylose dehydrogenase displayed whole cell on multiwalled carbon nanotube nanocomposite films modified electrode for simultaneous voltammetric detection of D-glucose and D-xylose. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 42, 156-62	11.8	51
811	Carbon nitride dots can serve as an effective stabilizing agent for reduced graphene oxide and help in subsequent assembly with glucose oxidase into hybrids for glucose detection application. <i>Electrochimica Acta</i> , <b>2013</b> , 95, 260-267	6.7	35
810	A novel bi-protein bio-interphase of cytochrome c and glucose oxidase: Electron transfer and electrocatalysis. <i>Electrochimica Acta</i> , <b>2013</b> , 93, 17-24	6.7	33
809	An ultrasensitive streptavidin-functionalized carbon nanotubes platform for chemiluminescent immunoassay. <b>2013</b> , 774, 85-91		19
808	Graphene based materials for biomedical applications. <b>2013</b> , 16, 365-373		467
807	Study on the electrochemical catalytic properties of the topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 46, 171-4	11.8	17



806	Preparation of poly(diallyldimethylammonium chloride)-functionalized graphene and its applications for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 411-418	6.7	28
805	Electrochemical biosensor based on reduced graphene oxide modified electrode with Prussian blue and poly(toluidine blue O) coating. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 454-460	6.7	47
804	A reduced graphene oxide based biosensor for high-sensitive detection of phenols in water samples. <b>2013</b> , 181, 661-667		82
803	Nanotechnology for implantable sensors: carbon nanotubes and graphene in medicine. <b>2013</b> , 5, 233-49		52
802	Graphene: promises, facts, opportunities, and challenges in nanomedicine. <b>2013</b> , 113, 3407-24		563
801	Direct electron transfer glucose biosensor based on glucose oxidase self-assembled on electrochemically reduced carboxyl graphene. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 43, 131-6	11.8	153
800	Sonochemical fabrication of Fe <sub>3</sub> O <sub>4</sub> nanoparticles on reduced graphene oxide for biosensors. <b>2013</b> , 20, 872-80		125
799	Improved cathode materials for microbial electrosynthesis. <b>2013</b> , 6, 217-224		260
798	Graphene-Based Polymer Composites and Their Applications. <b>2013</b> , 52, 319-331		412
797	Enzyme nanoarchitectonics: organization and device application. <b>2013</b> , 42, 6322-45		330
796	Graphene-based electrochemical sensors. <b>2013</b> , 9, 1160-72		434
795	Electrochemical reduction of nitrate on graphene modified copper electrodes in alkaline media. <b>2013</b> , 699, 1-5		48
794	Nanomaterials for Biosensors and Implantable Biodevices. <b>2013</b> , 27-48		15
793	Graphene nanoplatelets: electrochemical properties and applications for oxidation of endocrine-disrupting chemicals. <b>2013</b> , 19, 3483-9		34
792	A hierarchically structured composite of MnO/3D graphene foam for flexible nonenzymatic biosensors. <b>2013</b> , 1, 110-115		123
791	Graphene-Based Chemical and Biosensors. <b>2013</b> , 103-141		9
790	Addressable self-immobilization of lactate dehydrogenase across multiple length scales. <b>2013</b> , 8, 262-72		10
789	Recent advancements of graphene in biomedicine. <b>2013</b> , 1, 2542-2567		153

788	Graphene-Based Optical and Electrochemical Biosensors: A Review. <b>2013</b> , 46, 1-17		60
787	Biofuel Cells: Bioelectrochemistry Applied to the Generation of Green Electricity. <b>2013</b> , 101-123		1
786	Facilely prepared polypyrrole-reduced graphite oxide core-shell microspheres with high dispersibility for electrochemical detection of dopamine. <b>2013</b> , 49, 4610-2		76
785	Chitosan-based nanomaterials: a state-of-the-art review. <b>2013</b> , 59, 46-58		581
784	Immobilization techniques in the fabrication of nanomaterial-based electrochemical biosensors: a review. <b>2013</b> , 13, 4811-40		315
783	Label-free electrochemical impedance genosensor based on 1-aminopyrene/graphene hybrids. <b>2013</b> , 5, 5833-40		40
782	A novel glucose biosensor based on the immobilization of glucose oxidase on layer-by-layer assembly film of copper phthalocyanine functionalized graphene. <i>Electrochimica Acta</i> , <b>2013</b> , 104, 178-184 <sup>67</sup>		45
781	Aqueous dispersions of reduced graphene oxide and multi wall carbon nanotubes for enhanced glucose oxidase bioelectrode performance. <b>2013</b> , 61, 467-475		33
780	Electrochemical detection of dopamine using water-soluble sulfonated graphene. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 58-65	6.7	109
779	A novel nonenzymatic sensor based on CuO nanoneedle/graphene/carbon nanofiber modified electrode for probing glucose in saliva. <b>2013</b> , 116, 223-30		132
778	Direct electrochemistry of adsorbed proteins and bioelectrocatalysis at film electrode prepared from oppositely charged carbon nanoparticles. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 132-138	6.7	17
777	In situ polymerization of highly dispersed polypyrrole on reduced graphite oxide for dopamine detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 157-60	11.8	44
776	Green-synthesis of reduced graphene oxide nanosheets using rose water and a survey on their characteristics and applications. <b>2013</b> , 3, 13365		81
775	Synthesis of polypyrrole coated manganese nanowires and their application in hydrogen peroxide detection. <b>2013</b> , 141, 298-303		11
774	Graphene oxide-chitosan nanocomposite based electrochemical DNA biosensor for detection of typhoid. <b>2013</b> , 185, 675-684		164
773	Highly selective and sensitive glucose sensors based on organic electrochemical transistors with graphene-modified gate electrodes. <b>2013</b> , 1, 3820-3829		92
772	Reduced graphene oxide-functionalized high electron mobility transistors for novel recognition pattern label-free DNA sensors. <b>2013</b> , 9, 4045-50		32
771	A facile one-pot synthesis of copper sulfide-decorated reduced graphene oxide composites for enhanced detecting of H <sub>2</sub> O <sub>2</sub> in biological environments. <b>2013</b> , 85, 8095-101		235

770	An enzymatic glucose biosensor based on a glassy carbon electrode modified with manganese dioxide nanowires. <b>2013</b> , 180, 627-633		32
769	Simultaneous Voltammetric Determination of Captopril and Hydrochlorothiazide on a Graphene/Ferrocene Composite Carbon Paste Electrode. <i>Electroanalysis</i> , <b>2013</b> , 25, 1263-1270	3	27
768	Multiplex electrochemiluminescence immunoassay of two tumor markers using multicolor quantum dots as labels and graphene as conducting bridge. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 44, 101-111	11.8	97
767	One-pot preparation of glucose biosensor based on polydopamine-graphene composite film modified enzyme electrode. <b>2013</b> , 177, 826-832		66
766	Self-assembled glucose oxidase/graphene/gold ternary nanocomposites for direct electrochemistry and electrocatalysis. <b>2013</b> , 697, 10-14		40
765	A graphene-based electrochemical sensor for sensitive detection of quercetin in foods. <b>2013</b> , 10, 841-849		22
764	Chemiluminescence detector based on a single planar transparent digital microfluidic device. <b>2013</b> , 13, 2714-20		20
763	Sensitive detection of rutin with novel ferrocene benzyne derivative modified electrodes. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 275-81	11.8	54
762	Direct electrochemistry of glucose oxidase at electrochemically reduced graphene oxide-multiwalled carbon nanotubes hybrid material modified electrode for glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 309-15	11.8	300
761	Carbon nanotubes-nanoflake-like SnS <sub>2</sub> nanocomposite for direct electrochemistry of glucose oxidase and glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 698-703	11.8	82
760	Nonenzymatic glucose sensor based on nickel(II)oxide/ordered mesoporous carbon modified glassy carbon electrode. <b>2013</b> , 102, 307-11		87
759	Amperometric sensor based on a graphene/copper hexacyanoferrate nano-composite for highly sensitive electrocatalytic determination of captopril. <b>2013</b> , 33, 774-81		27
758	Electrochemical immunosensor with graphene/gold nanoparticles platform and ferrocene derivatives label. <b>2013</b> , 103, 75-80		40
757	Acetylcholinesterase Biosensor Based on Poly (diallyldimethylammonium chloride)-multi-walled Carbon Nanotubes-graphene Hybrid Film. <b>2013</b> , 5, 47-56		21
756	Performance enhancement in vanadium redox flow battery using platinum-based electrocatalyst synthesized by polyol process. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 439-447	6.7	48
755	Characterization of Interfaces between Graphene Films and Support Substrates by Observation of Lipid Membrane Formation. <b>2013</b> , 117, 18913-18918		10
754	Electrochemical biosensor based on graphene, Mg <sub>2</sub> Al layered double hydroxide and hemoglobin composite. <i>Electrochimica Acta</i> , <b>2013</b> , 91, 130-136	6.7	36
753	Preparation of GR/HRP/Chit Modified Electrode and its Electrochemical Behaviors. <b>2013</b> , 704, 87-91		

752	Electrochemical Sensor for o-Nitrophenol Based on Cyclodextrin Functionalized Graphene Nanosheets. <b>2013</b> , 2013, 1-6	13
751	Direct electrochemical oxidation of S-captopril using gold electrodes modified with graphene-AuAg nanocomposites. <b>2014</b> , 9, 1111-25	2
750	. <b>2014</b> ,	25
749	Sensors Based on Carbon Nanotube Arrays and Graphene for Water Monitoring. <b>2014</b> , 3-19	1
748	Graphene nanosheets as a sensing platform for amplified electrochemical measurement of quercetin and uric acid in biological fluids. <b>2014</b> , 92, 1074-1080	4
747	Determination of hydrogen peroxide using a biosensor based on Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles and horseradish peroxidase with graphene-chitosan composite. <b>2014</b> , 9, 572-576	7
746	Electrochemical biosensor based on glucose oxidase encapsulated within enzymatically synthesized poly(1,10-phenanthroline-5,6-dione). <b>2014</b> , 123, 685-91	9
745	Laccase Biosensor Based on Graphene-Chitosan Composite Film for Determination of Hydroquinone. <b>2014</b> , 47, 1564-1578	11
744	Encyclopedia of Applied Electrochemistry. <b>2014</b> , 479-485	3
743	Recent advances in application of biosensors in tissue engineering. <b>2014</b> , 2014, 307519	94
742	Electrochemical detection of hydrogen peroxide and glucose based on chitosan stabilized silver nanowire modified electrodes. <b>2014</b> ,	1
741	Tapered Plastic Optical Fiber Coated With Graphene for Uric Acid Detection. <b>2014</b> , 14, 1704-1709	26
740	Glutamate biosensors based on diamond and graphene platforms. <b>2014</b> , 172, 457-72	28
739	Electrochemical Studies on Glucose Oxidation in an Enzymatic Fuel Cell with Enzyme Immobilized on to Reduced Graphene Oxide Surface. <i>Electroanalysis</i> , <b>2014</b> , 26, 2408-2418	3 13
738	A High Performance Electrochemical Biosensing Platform for Glucose Detection and IgE Aptasensing Based on Fe <sub>3</sub> O <sub>4</sub> /Reduced Graphene Oxide Nanocomposite. <i>Electroanalysis</i> , <b>2014</b> , 26, 129-138	15
737	A Graphene Based Sensor for Sensitive Voltammetric Quantification of Cabergoline. <b>2014</b> , 161, H314-H320	14
736	Green Synthesis of Ag Nanoparticles by <i>Callicarpa Maingayi</i> : Characterization and Its Application with Graphene Oxide for Enzymeless Hydrogen Peroxide Detection. <b>2014</b> , 61, 631-637	5
735	Review of Recent Developments in Sensing Materials. <b>2014</b> , 47-101	9

734	Optoelectrochemical biorecognition by optically transparent highly conductive graphene-modified fluorine-doped tin oxide substrates. <b>2014</b> , 6, 22769-77	15
733	168 fs pulse generation from graphene-chitosan mode-locked fiber laser. <b>2014</b> , 4, 1981	25
732	Electrochemical performance of nitrogen and oxygen radio-frequency plasma induced functional groups on tri-layered reduced graphene oxide. <b>2014</b> , 1, 025604	12
731	Analytical calculation of sensing parameters on carbon nanotube based gas sensors. <b>2014</b> , 14, 5502-15	30
730	A hybrid system of carbon ink electrodes and chromatography paper on a CMOS chip and its application to enzymatic glucose sensor. <b>2014</b> , 53, 04EL06	3
729	Graphene nanoplatelets and horseradish peroxidase based biosensor. <b>2014</b> , 211, 2795-2800	5
728	Biosensor Design with Molecular Engineering and Nanotechnology. <b>2014</b> , 117-153	
727	Graphene for Biosensor Applications. <b>2014</b> , 83-145	
726	Two-signal electrochemical method for evaluation suppression and proliferation of MCF-7 cells based on intracellular purine. <b>2014</b> , 456, 1-5	11
725	Ultrasensitive IL-6 electrochemical immunosensor based on Au nanoparticles-graphene-silica biointerface. <b>2014</b> , 116, 714-9	41
724	Facile synthesis of tetragonal columnar-shaped TiO <sub>2</sub> nanorods for the construction of sensitive electrochemical glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 528-33	11.8 69
723	Immobilizing haemoglobin on gold/graphene-chitosan nanocomposite as efficient hydrogen peroxide biosensor. <b>2014</b> , 197, 164-171	58
722	Synthesis of rGO@Ag nanoparticles for high-performance SERS and the adsorption geometry of 2-mercaptobenzimidazole on Ag surface. <b>2014</b> , 114, 801-808	15
721	Studies of graphene-chitosan interactions and analysis of the bioadsorption of glucose and cholesterol. <b>2014</b> , 4, 911-918	16
720	Synthesis, characterization, and sensing applications of polypyrrole coated Fe <sub>3</sub> O <sub>4</sub> nanostrip bundles. <b>2014</b> , 40, 9265-9272	10
719	Fluorescent boronic acid terminated polymer grafted silica particles synthesized via click chemistry for affinity separation of saccharides. <b>2014</b> , 40, 228-34	10
718	DNA-based hybridization chain reaction for an ultrasensitive cancer marker EBNA-1 electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 68-74	11.8 46
717	Application and future challenges of functional nanocarbon hybrids. <b>2014</b> , 26, 2295-318	261

7 <sup>16</sup>	Vibrational spectroscopy for probing molecular-level interactions in organic films mimicking biointerfaces. <b>2014</b> , 207, 199-215		26
7 <sup>15</sup>	Facile preparation of mesocellular graphene foam for direct glucose oxidase electrochemistry and sensitive glucose sensing. <b>2014</b> , 193, 708-714		49
7 <sup>14</sup>	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. <b>2014</b> , 114, 164-9		110
7 <sup>13</sup>	Electrochemical in-vivo sensors using nanomaterials made from carbon species, noble metals, or semiconductors. <b>2014</b> , 181, 1471-1484		41
7 <sup>12</sup>	Direct electron transfer at a glucose oxidase-chitosan-modified Vulcan carbon paste electrode for electrochemical biosensing of glucose. <b>2014</b> , 172, 1517-29		13
7 <sup>11</sup>	Amperometric detection of hydrogen peroxide using a nanofibrous membrane sputtered with silver. <b>2014</b> , 4, 3857-3863		17
7 <sup>10</sup>	A paper disk equipped with graphene/polyaniline/Au nanoparticles/glucose oxidase biocomposite modified screen-printed electrode: toward whole blood glucose determination. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 56, 77-82	11.8	179
7 <sup>09</sup>	Facile synthesis of monodisperse porous Cu <sub>2</sub> O nanospheres on reduced graphene oxide for non-enzymatic amperometric glucose sensing. <i>Electrochimica Acta</i> , <b>2014</b> , 115, 103-108	6.7	95
7 <sup>08</sup>	A Nafion-free non-enzymatic amperometric glucose sensor based on copper oxide nanoparticles/graphene nanocomposite. <b>2014</b> , 198, 438-447		96
7 <sup>07</sup>	Simple and label-free electrochemical impedance Amelogenin gene hybridization biosensing based on reduced graphene oxide. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 145-52	11.8	68
7 <sup>06</sup>	Amperometric cholesterol biosensor based on the direct electrochemistry of cholesterol oxidase and catalase on a graphene/ionic liquid-modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 53, 472-8	11.8	103
7 <sup>05</sup>	A novel amperometric adenosine triphosphate biosensor by immobilizing graphene/dual-labeled aptamers complex onto poly(o-phenylenediamine) modified electrode. <b>2014</b> , 191, 695-702		30
7 <sup>04</sup>	A novel electrochemiluminescence glucose biosensor based on platinum nanoflowers/graphene oxide/glucose oxidase modified glassy carbon electrode. <b>2014</b> , 18, 2375-2382		25
7 <sup>03</sup>	Immobilization of Enzymes and other Biomolecules on Graphene. <b>2014</b> , 139-172		1
7 <sup>02</sup>	pH-switchable electrochemical sensing platform based on chitosan-reduced graphene oxide/concanavalin a layer for assay of glucose and urea. <b>2014</b> , 86, 1980-7		73
7 <sup>01</sup>	Synthesis of nanotitania decorated few-layer graphene for enhanced visible light driven photocatalysis. <b>2014</b> , 428, 214-21		48
7 <sup>00</sup>	Nanomaterial-mediated Biosensors for Monitoring Glucose. <b>2014</b> , 8, 403-411		69
6 <sup>99</sup>	Enzyme-labeled Pt@BSA nanocomposite as a facile electrochemical biosensing interface for sensitive glucose determination. <b>2014</b> , 6, 4170-8		64

698	Direct electron transfer of glucose oxidase and biosensing for glucose based on PDDA-capped gold nanoparticle modified graphene/multi-walled carbon nanotubes electrode. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 52, 147-52	11.8	183
697	A gold@silica core-shell nanoparticle-based surface-enhanced Raman scattering biosensor for label-free glucose detection. <b>2014</b> , 811, 76-80		74
696	A simple biofuel cell cathode with human red blood cells as electrocatalysts for oxygen reduction reaction. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 55, 14-8	11.8	19
695	Electrochemical behavior of luteolin on a chitosan-graphene modified glassy carbon electrode and its sensitive detection. <b>2014</b> , 6, 9354-9360		14
694	Direct electrochemistry of GOD on nitrogen-doped porous carbon and its biosensing. <b>2014</b> , 16, 1		5
693	Nerve cell differentiation using constant and programmed electrical stimulation through conductive non-functional graphene nanosheets film. <b>2014</b> , 11, 274-283		34
692	Direct electrochemistry and electrocatalysis of glucose oxidase based poly(L-arginine)-multi-walled carbon nanotubes. <b>2014</b> , 4, 50771-50781		18
691	Interaction of graphene oxide with human serum albumin and its mechanism. <b>2014</b> , 4, 55290-55295		43
690	Rhoeo discolor leaf extract as a novel immobilizing matrix for the fabrication of an electrochemical glucose and hydrogen peroxide biosensor. <b>2014</b> , 6, 863-877		4
689	3D-networked carbon nanotube/diamond core-shell nanowires for enhanced electrochemical performance. <b>2014</b> , 6, e115-e115		27
688	An electrochemical glucose biosensor based on graphene composites: use of dopamine as reducing monomer and as site for covalent immobilization of enzyme. <b>2014</b> , 4, 43624-43629		21
687	TiO <sub>2</sub> /Graphene/Chitosan-Nanocomposite-Based Electrochemical Sensor for the Sensing of Anti-HIV Drug Zidovudine. <b>2014</b> , 161, H934-H940		4
686	Functionalization of monolithic and porous three-dimensional graphene by one-step chitosan electrodeposition for enzymatic biosensor. <b>2014</b> , 6, 19997-20002		80
685	Macroporous ordered silica foam for glucose oxidase immobilisation and direct electrochemical biosensing. <b>2014</b> , 6, 1448		5
684	Luminescent CePO <sub>4</sub> /Tb colloids for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <b>2014</b> , 139, 4547-55		47
683	An enhanced direct electrochemistry of glucose oxidase at poly(taurine) modified glassy carbon electrode for glucose biosensor. <b>2014</b> , 6, 9053-9058		17
682	Novel water-soluble multi-nanopore graphene modified glassy carbon electrode for simultaneous determination of dopamine and uric acid in the presence of ascorbic acid. <i>Electrochimica Acta</i> , <b>2014</b> , 143, 366-373	6.7	40
681	Noncovalent functionalization of graphene by CdS nanohybrids for electrochemical applications. <b>2014</b> , 568, 58-62		6



680	Production of graphene composite by direct graphite exfoliation with chitosan. <b>2014</b> , 148, 507-511		27
679	Computational Study on the Interaction of Modified Nucleobases with Graphene and Doped Graphenes. <b>2014</b> , 118, 16165-16174		43
678	One-Step Electrochemical Synthesis of Polypyrrole-Graphene-Glucose Oxidase Nanobiocomposite for Glucose Sensing. <b>2014</b> , 161, B243-B247		6
677	A novel molecularly imprinted chitosan-acrylamide, graphene, ferrocene composite cryogel biosensor used to detect microalbumin. <b>2014</b> , 139, 6160-7		54
676	Three-dimensional graphene-carbon nanotube hybrid for high-performance enzymatic biofuel cells. <b>2014</b> , 6, 3387-93		123
675	Molecular adsorption on graphene. <b>2014</b> , 26, 443001		122
674	Synthesis of zinc oxide nanoparticles on graphene-carbon nanotube hybrid for glucose biosensor applications. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 62, 127-33	11.8	174
673	Simple fabrication of ZnO/Pt/chitosan electrode for enzymatic glucose biosensor. <b>2014</b> , 202, 827-833		55
672	The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites. <i>Electrochimica Acta</i> , <b>2014</b> , 139, 386-393	6.7	19
671	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. <b>2014</b> , 26, 6653-6673		127
670	Synthesis of Au-MWCNT/Graphene hybrid composite for the rapid detection of H <sub>2</sub> O <sub>2</sub> and glucose. <b>2014</b> , 4, 41670-41677		21
669	Composition and architecture-engineered AuSnO <sub>2</sub> /GNs-SWCNTs nanocomposites as ultrasensitive and robust electrochemical sensor for antioxidant additives in foods. <b>2014</b> , 203, 926-934		32
668	Simultaneous determination of purine and pyrimidine bases in DNA using poly(3,4-ethylenedioxythiophene)/graphene composite film. <b>2014</b> , 735, 51-56		16
667	Direct electrochemistry of glucose oxidase immobilized on ZrO <sub>2</sub> nanoparticles-decorated reduced graphene oxide sheets for a glucose biosensor. <b>2014</b> , 4, 30358-30367		43
666	Magnetic Fe <sub>3</sub> O <sub>4</sub> -Reduced Graphene Oxide Nanocomposites-Based Electrochemical Biosensing. <b>2014</b> , 6, 258-267		50
665	Achieving direct electrochemistry of glucose oxidase by one step electrochemical reduction of graphene oxide and its use in glucose sensing. <b>2014</b> , 45, 103-8		20
664	Direct electrochemistry of glucose oxidase and sensing glucose using a screen-printed carbon electrode modified with graphite nanosheets and zinc oxide nanoparticles. <b>2014</b> , 181, 1843-1850		35
663	Synergistic metal-metal oxide nanoparticles supported electrocatalytic graphene for improved photoelectrochemical glucose oxidation. <b>2014</b> , 6, 4864-71		81



662	DNA-templated synthesis of PtAu bimetallic nanoparticle/graphene nanocomposites and their application in glucose biosensor. <b>2014</b> , 9, 99		18
661	Electrical Transducers. <b>2014</b> , 169-232		10
660	A Facile One-Step Method for the Synthesis of Reduced Graphene Oxide Nanocomposites by NADH as Reducing Agent and Its Application in NADH Sensing. <i>Electroanalysis</i> , <b>2014</b> , 26, 171-177	3	27
659	Evidence of short-range electron transfer of a redox enzyme on graphene oxide electrodes. <b>2014</b> , 16, 17426-36		46
658	A novel nonenzymatic hydrogen peroxide sensor based on the synthesized mesoporous carbon and silver nanoparticles nanohybrid. <b>2014</b> , 203, 919-925		43
657	The Immobilization of Glucose Oxidase at Manganese Dioxide Particles-Decorated Reduced Graphene Oxide Sheets for the Fabrication of a Glucose Biosensor. <b>2014</b> , 53, 15582-15589		36
656	Laser-scribed graphene presents an opportunity to print a new generation of disposable electrochemical sensors. <b>2014</b> , 6, 13613-22		61
655	Electrochemistry of graphene and related materials. <b>2014</b> , 114, 7150-88		802
654	Computer-assisted electrochemical fabrication of a highly selective and sensitive amperometric nitrite sensor based on surface decoration of electrochemically reduced graphene oxide nanosheets with CoNi bimetallic alloy nanoparticles. <b>2014</b> , 40, 109-20		37
653	Highly conductive graphite nanoparticle based enzyme biosensor for electrochemical glucose detection. <b>2014</b> , 194, 454-459		37
652	Investigation of the optimal weight contents of reduced graphene oxide-gold nanoparticles composites and their application in electrochemical biosensors. <b>2014</b> , 720-721, 84-91		15
651	Graphene oxide based ultrasensitive flow-through chemiluminescent immunoassay for sub-picogram level detection of chicken interferon- $\gamma$ . <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 51, 356-61	11.8	31
650	Facile preparation of highly water-stable and flexible PEDOT:PSS organic/inorganic composite materials and their application in electrochemical sensors. <b>2014</b> , 196, 357-369		69
649	Cage-like PbS nanostructure for the construction of novel glucose electrochemical biosensor. <b>2014</b> , 190, 549-554		29
648	Highly sensitive nonenzymatic glucose and H <sub>2</sub> O <sub>2</sub> sensor based on Ni(OH) <sub>2</sub> /electroreduced graphene oxide-multiwalled carbon nanotube film modified glass carbon electrode. <b>2014</b> , 120, 484-90		105
647	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. <b>2014</b> , 196, 450-456		112
646	Graphene sheets anchored with ZnO nanocrystals as electrode materials for electrochemical capacitors. <b>2014</b> , 143, 853-859		18
645	Highly sensitive glucose biosensor based on Au-Ni coaxial nanorod array having high aspect ratio. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 56, 204-9	11.8	39

644	A new self-assembled layer-by-layer glucose biosensor based on chitosan biopolymer entrapped enzyme with nitrogen doped graphene. <i>Bioelectrochemistry</i> , <b>2014</b> , 99, 46-52	5.6	68
643	Chitosan coated on the layers' glucose oxidase immobilized on cysteamine/Au electrode for use as glucose biosensor. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 60, 271-6	11.8	50
642	Chemically derived graphene. <b>2014</b> , 50-80		6
641	Engineered proteins for bioelectrochemistry. <b>2014</b> , 7, 257-74		9
640	Green synthesis of reduced graphene oxide decorated with gold nanoparticles and its glucose sensing application. <b>2014</b> , 202, 475-482		62
639	Facile preparation of MnO <sub>2</sub> nanotubes/reduced graphene oxide nanocomposite for electrochemical sensing of hydrogen peroxide. <b>2014</b> , 201, 526-534		82
638	Photonic Properties of Graphene Device. <b>2014</b> , 291-308		
637	Stochastic Events in Nanoelectrochemical Systems. <b>2015</b> , 256-307		
636	Recent Investigations of Single Living Cells with Ultramicroelectrodes. <b>2015</b> , 454-483		2
635	Graphene Modified Electrode for the Direct Electron Transfer of Bilirubin Oxidase. <b>2015</b> , 83, 332-334		10
634	Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and $\beta$ -Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. <i>Electroanalysis</i> , <b>2015</b> , 27, 2412-2420		17
633	Sensitivity Enhancement in Nickel Hydroxide/3D-Graphene as Enzymeless Glucose Detection. <i>Electroanalysis</i> , <b>2015</b> , 27, 2363-2370	3	15
632	Metal Nanoparticle-Loaded Mesoporous Carbon Nanoparticles: Electrical Contacting of Redox Proteins and Electrochemical Sensing Applications. <i>Electroanalysis</i> , <b>2015</b> , 27, 2150-2157	3	11
631	A Non-Enzymatic Glucose Sensor Based on Ni/MnO <sub>2</sub> Nanocomposite Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , <b>2015</b> , 27, 2399-2405	3	29
630	Acidic and Basic Functionalized Carbon Nanomaterials as Electrical Bridges in Enzyme Loaded Chitosan/Poly(styrene sulfonate) Self-Assembled Layer-by-Layer Glucose Biosensors. <i>Electroanalysis</i> , <b>2015</b> , 27, 2139-2149	3	17
629	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <b>2015</b> , 3, 38		57
628	Polyelectrolyte-graphene Nanocomposites for Biosensing Applications. <b>2015</b> , 19, 1819-1827		7
627	Rapid Prototyping of a High Sensitivity Graphene Based Glucose Sensor Strip. <b>2015</b> , 10, e0145036		18

626	An enzymatic glucose biosensor based on a glassy carbon electrode modified with cylinder-shaped titanium dioxide nanorods. <b>2015</b> , 182, 1841-1848		13
625	A novel glucose oxidase biosensor based on poly([2,2';5',2?]-terthiophene-3'-carbaldehyde) modified electrode. <b>2015</b> , 79, 262-8		18
624	Silicon/SU8 multi-electrode micro-needle for in vivo neurochemical monitoring. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 148-55	11.8	41
623	Spontaneous Deposition of Prussian Blue on Reduced Graphene Oxide [Gold Nanoparticles Composites for the Fabrication of Electrochemical Biosensors. <i>Electroanalysis</i> , <b>2015</b> , 27, 74-83	3	14
622	Development of glucose biosensors based on nanostructured graphene-conducting polyaniline composite. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 70, 411-7	11.8	91
621	A sensitive electrochemical nitrate sensor based on polypyrrole coated palladium nanoclusters. <b>2015</b> , 751, 30-36		39
620	Nano-CeO <sub>2</sub> decorated graphene based chitosan nanocomposites as enzymatic biosensing platform: fabrication and cellular biocompatibility assessment. <b>2015</b> , 38, 1671-83		18
619	Triple tumor markers assay based on carbon-gold nanocomposite. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 70, 161-6	11.8	62
618	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. <b>2015</b> , 2, 032004		106
617	Graphene-based biosensors: methods, analysis and future perspectives. <b>2015</b> , 9, 434-445		28
616	Effects of multiple polyaniline layers immobilized on carbon nanotube and glutaraldehyde on performance and stability of biofuel cell. <b>2015</b> , 299, 604-610		37
615	Graphene-Based Glucose Sensors: A Brief Review. <b>2015</b> , 14, 818-34		30
614	Application of Inorganic Layered Materials in Electrochemical Sensors. <b>2015</b> , 43, 1648-1655		9
613	Graphene-gold nanoparticle composite: application as a good scaffold for construction of glucose oxidase biosensor. <b>2015</b> , 49, 297-304		36
612	Effective immobilization of glucose oxidase on chitosan submicron particles from gladius of <i>Todarodes pacificus</i> for glucose sensing. <i>Bioelectrochemistry</i> , <b>2015</b> , 104, 44-50	5.6	20
611	Glucose sensing by a glassy carbon electrode modified with glucose oxidase and a magnetic polymeric nanocomposite. <b>2015</b> , 5, 18267-18274		45
610	Conformation, Bioactivity and Electrochemical Performance of Glucose Oxidase Immobilized on Surface of Gold Nanoparticles. <i>Electrochimica Acta</i> , <b>2015</b> , 158, 56-63	6.7	28
609	Direct electrochemistry of glucose oxidase immobilized on carbon nanotube for improving glucose sensing. <b>2015</b> , 40, 2199-2206		48

608	Development of Biosensors from Polymer Graphene Composites. <b>2015</b> , 277-305		2
607	Bioelectrochemistry of heme peptide at seamless three-dimensional carbon nanotubes/graphene hybrid films for highly sensitive electrochemical biosensing. <b>2015</b> , 7, 3647-54		33
606	Mussel-inspired biopolymer modified 3D graphene foam for enzyme immobilization and high performance biosensor. <i>Electrochimica Acta</i> , <b>2015</b> , 161, 17-22	6.7	33
605	A sensitive glucose biosensor based on Ag@C core-shell matrix. <b>2015</b> , 49, 579-587		33
604	Direct electron transfer of glucose oxidase and dual hydrogen peroxide and glucose detection based on water-dispersible carbon nanotubes derivative. <b>2015</b> , 867, 83-91		23
603	Marine Biomaterials in Therapeutics and Diagnostic. <b>2015</b> , 1247-1263		6
602	One-step thermal-treatment route to fabricate well-dispersed ZnO nanocrystals on nitrogen-doped graphene for enhanced electrochemiluminescence and ultrasensitive detection of pentachlorophenol. <b>2015</b> , 7, 3093-100		95
601	An Overview of the Latest Graphene-Based Sensors for Glucose Detection: the Effects of Graphene Defects. <i>Electroanalysis</i> , <b>2015</b> , 27, 16-31	3	74
600	Platinum nanoparticles functionalized nitrogen doped graphene platform for sensitive electrochemical glucose biosensing. <b>2015</b> , 871, 35-42		41
599	Application and Uses of Graphene. <b>2015</b> , 1-38		13
598	Constructing heterostructure on highly roughened caterpillar-like gold nanotubes with cuprous oxide grains for ultrasensitive and stable nonenzymatic glucose sensor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 967-73	11.8	41
597	Palladium nanoparticles deposited on graphene and its electrochemical performance for glucose sensing. <b>2015</b> , 355, 587-592		29
596	An ab-initio study of adsorption of gaseous molecules on doped graphene structures. <b>2015</b> , 74, 515-526		10
595	Electrocatalytic determination of $\beta$ -adrenergic agonist tizanidine at graphene/silicon dioxide nanocomposite sensor. <b>2015</b> , 65, 307-314		10
594	On-chip highly sensitive saliva glucose sensing using multilayer films composed of single-walled carbon nanotubes, gold nanoparticles, and glucose oxidase. <i>Sensing and Bio-Sensing Research</i> , <b>2015</b> , 4, 96-102	3.3	55
593	A Nanocomposite of Poly(melamine) and Electrochemically Reduced Graphene Oxide Decorated with Cu Nanoparticles: Application to Simultaneous Determination of Hydroquinone and Catechol. <b>2015</b> , 162, B237-B244		19
592	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <b>2015</b> , 182, 2165-2172		15
591	Covalent modification of ordered mesoporous carbon with glucose oxidase for fabrication of glucose biosensor. <b>2015</b> , 752, 60-67		16

590	A highly sensitive enzymeless glucose sensor based on 3D grapheneCu hybrid electrodes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7481-7487	3.6	17
589	A green electrochemical sensor based on a poly(ionic liquid)graphene nanocomposite modified electrode for Sudan I determination. <b>2015</b> , 7, 6595-6601		17
588	A glucose biosensor based on glucose oxidase immobilized on three-dimensional porous carbon electrodes. <b>2015</b> , 140, 5578-84		32
587	Highly sensitive simultaneous electrochemical determination of hydroquinone, catechol and resorcinol based on carbon dot/reduced graphene oxide composite modified electrodes. <b>2015</b> , 7, 6089-6094		40
586	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. <b>2015</b> , 78, 40-5		96
585	Graphene nanodots engaged 3-D gold substrate as enzyme loading platform for the fabrication of high performance biosensors. <b>2015</b> , 220, 1186-1195		23
584	Amperometric glucose biosensor based on glucose oxidase immobilized over chitosan nanoparticles from gladius of <i>Uroteuthis duvauceli</i> . <b>2015</b> , 215, 536-543		49
583	The photoelectrochemical exploration of multifunctional TiO <sub>2</sub> mesocrystals and its enzyme-assisted biosensing application. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 18-24	11.8	39
582	A glucose biosensor based on partially unzipped carbon nanotubes. <b>2015</b> , 141, 66-72		15
581	Non-enzymatic glucose sensing by enhanced Raman spectroscopy on flexible 'as-grown' CVD graphene. <b>2015</b> , 140, 3935-41		9
580	Fabrication of biofuel cell containing enzyme catalyst immobilized by layer-by-layer method. <b>2015</b> , 286, 197-203		62
579	CoCu alloy nanoparticles decorated TiO <sub>2</sub> nanotube arrays for highly sensitive and selective nonenzymatic sensing of glucose. <b>2015</b> , 215, 337-344		48
578	Online electrochemical systems for continuous neurochemical measurements with low-potential mediator-based electrochemical biosensors as selective detectors. <b>2015</b> , 140, 5039-47		4
577	Enhancing the Surface Sensitivity and Selectivity: Functionalization of Carbon Nanomaterials. <b>2015</b> , 79-102		2
576	Recent advances in electrochemical biosensing schemes using graphene and graphene-based nanocomposites. <b>2015</b> , 84, 519-550		167
575	An Imperata Cylindrical Flowers-Shaped Porous Graphene Microelectrode for Direct Electrochemistry of Glucose Oxidase. <b>2015</b> , 162, B138-B144		11
574	Microwave Synthesis and Characterization of a SilverPoly (Amide Amine) Dendrimer Nanocomposite with Application as a Hydrogen Peroxide Sensor. <b>2015</b> , 48, 1686-1697		1
573	Graphene and graphitic derivative filled polymer composites as potential sensors. <b>2015</b> , 17, 3954-81		88

572	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. <b>2015</b> , 17, 11329-40		76
571	Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> rose like and spherical/reduced graphene oxide nanosheet composites for lead (II) sensor. <i>Electrochimica Acta</i> , <b>2015</b> , 169, 126-133	6.7	28
570	Fabrication and electrochemical characterization of dopamine-sensing electrode based on modified graphene nanosheets. <b>2015</b> , 7, 9317-9323		34
569	Cytotoxicity of graphene oxide nanoparticles on plant growth promoting rhizobacteria. <b>2015</b> , 32, 282-291		27
568	A nonenzymatic electrochemical glucose sensor based on mesoporous Au/Pt nanodendrites. <b>2015</b> , 5, 82617-82622		27
567	Enhanced amperometric response of a glucose oxidase and horseradish peroxidase based bienzyme glucose biosensor modified with a film of polymerized toluidine blue containing reduced graphene oxide. <b>2015</b> , 182, 1949-1956		22
566	Electrochemical Sensors Based on Nanostructured Materials. <b>2015</b> , 1-15		1
565	Direct electrochemical deposition of polyaniline nanowire array on reduced graphene oxide modified graphite electrode for direct electron transfer biocatalysis. <b>2015</b> , 5, 93209-93214		12
564	Electrochemical detection of a pathogenic Escherichia coli specific DNA sequence based on a graphene oxide-chitosan composite decorated with nickel ferrite nanoparticles. <b>2015</b> , 5, 67115-67124		37
563	Simple and Sensitive Voltammetric Determination of Esculetin Using Electrochemically Reduced Graphene Oxide Modified Electrode. <b>2015</b> , 62, 652-660		7
562	Partially reduced graphene oxide-gold nanorods composite based bioelectrode of improved sensing performance. <b>2015</b> , 144, 745-54		17
561	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C <sub>60</sub> composite. <b>2015</b> , 5, 77651-77657		44
560	Combined Photothermal and Surface-Enhanced Raman Spectroscopy Effect from Spiky Noble Metal Nanoparticles Wrapped within Graphene-Polymer Layers: Using Layer-by-layer Modified Reduced Graphene Oxide as Reactive Precursors. <b>2015</b> , 7, 19353-61		27
559	GOD/HRP Bienzyme Synergistic Catalysis in a 2-D Graphene Framework for Glucose Biosensing. <b>2015</b> , 162, B319-B325		8
558	Electrochemically Functionalized Seamless Three-Dimensional Graphene-Carbon Nanotube Hybrid for Direct Electron Transfer of Glucose Oxidase and Bioelectrocatalysis. <b>2015</b> , 31, 13054-61		49
557	Fabrication of Dual-Path Electron Transfer Electrode for Electrochemical Glucose Sensing. <b>2015</b> , 162, B27-B35		16
556	Direct electrochemical analysis of glucose oxidase on a graphene aerogel/gold nanoparticle hybrid for glucose biosensing. <b>2015</b> , 19, 307-314		30
555	Impact of distributions and mixtures on the charge transfer properties of graphene nanoflakes. <b>2015</b> , 7, 1864-71		12

554	Graphene for Glucose, Dopamine, Ascorbic Acid, and Uric Acid Detection. <b>2015</b> , 57-79		
553	Impedance immunosensor for bovine interleukin-4 using an electrode modified with reduced graphene oxide and chitosan. <b>2015</b> , 182, 369-376		16
552	A three-dimensional nitrogen-doped graphene structure: a highly efficient carrier of enzymes for biosensors. <b>2015</b> , 7, 1290-5		51
551	Amplified and selective detection of manganese peroxidase genes based on enzyme-scaffolded-gold nanoclusters and mesoporous carbon nitride. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 65, 382-9	11.8	34
550	Biocompatible Graphene for Bioanalytical Applications. <b>2015</b> ,		8
549	Nitrogen and sulfur dual-doped graphene for glucose biosensor application. <b>2015</b> , 738, 100-107		23
548	Direct electrochemistry of cholesterol oxidase immobilized on chitosan-graphene and cholesterol sensing. <b>2015</b> , 208, 505-511		62
547	Electrical coupling between cells and graphene transistors. <b>2015</b> , 11, 1703-10		19
546	Study of direct electron transfer and enzyme activity of glucose oxidase on graphene surface. <b>2015</b> , 50, 1-5		79
545	3D metal-organic framework as highly efficient biosensing platform for ultrasensitive and rapid detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 65, 295-301	11.8	149
544	Protein adsorption onto nanomaterials for the development of biosensors and analytical devices: a review. <b>2015</b> , 872, 7-25		166
543	Ultrasensitive electrochemical detection of engrailed-2 based on homeodomain-specific DNA probe recognition for the diagnosis of prostate cancer. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 32-8	11.8	23
542	An amperometric sensor for nitric oxide based on a glassy carbon electrode modified with graphene, Nafion, and electrodeposited gold nanoparticles. <b>2015</b> , 182, 711-718		13
541	Enzyme incorporated microfluidic device for in-situ glucose detection in water-in-air microdroplets. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 65, 220-5	11.8	36
540	Enhancement of electrogenerated chemiluminescence of luminol by ascorbic acid at gold nanoparticle/graphene modified glassy carbon electrode. <b>2015</b> , 134, 225-32		11
539	Synthesis and utilisation of graphene for fabrication of electrochemical sensors. <b>2015</b> , 131, 424-43		141
538	Electrochemical genosensor based on graphene oxide modified iron oxide-chitosan hybrid nanocomposite for pathogen detection. <b>2015</b> , 206, 276-283		78
537	Nanotechnology and wine. <b>2016</b> , 165-199		



536	A Neuron Model Based Ultralow Current Sensor System for Bioapplications. <b>2016</b> , 2016, 1-11	1
535	Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. <b>2016</b> , 2016, 3130469	90
534	Application of Carbon-Microsphere-Modified Electrodes for Electrochemistry of Hemoglobin and Electrocatalytic Sensing of Trichloroacetic Acid. <b>2015</b> , 16,	10
533	Layer-by-layer assembly of functionalized reduced graphene oxide for direct electrochemistry and glucose detection. <b>2016</b> , 68, 739-745	26
532	Disposable L-lactate biosensor based on a screen-printed carbon electrode enhanced by graphene. <b>2016</b> , 27, 045108	13
531	Graphene-Based Materials in Biosensing, Bioimaging, and Therapeutics. <b>2016</b> , 35-61	3
530	Optoelectrical, morphological and mechanical features of nitrophenyl supported poly(1,3,4-oxadiazole)s and their nanocomposites with TiO <sub>2</sub> . <b>2016</b> , 6, 115132-115144	
529	Construction of titanium dioxide nanorod/graphite microfiber hybrid electrodes for a high performance electrochemical glucose biosensor. <b>2016</b> , 8, 9382-9	34
528	Effect of composites based nickel foam anode in microbial fuel cell using <i>Acetobacter acetii</i> and <i>Gluconobacter roseus</i> as a biocatalysts. <b>2016</b> , 217, 113-20	36
527	Star shaped zinc sulphide quantum dots self-assembled monolayers: Preparation and applications in food toxin detection. <b>2016</b> , 231, 624-633	27
526	Nitrogen-doped carbon foam as an efficient enzymatic biosensing platform for glucose sensing. <b>2016</b> , 8, 4547-4553	4
525	<i>Cratylia mollis</i> lectin nanoelectrode for differential diagnostic of prostate cancer and benign prostatic hyperplasia based on label-free detection. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 171-177	11.8 33
524	Direct electrochemistry of myoglobin on TiO <sub>2</sub> and alginate composite modified carbon ionic liquid electrode via the electrodeposition method. <b>2016</b> , 20, 1783-1792	6
523	A sensitive electrochemical Hg <sup>2+</sup> ions sensor based on polypyrrole coated nanospherical platinum. <b>2016</b> , 6, 36459-36466	43
522	Terms of endearment: Bacteria meet graphene nanosurfaces. <b>2016</b> , 89, 38-55	48
521	A highly sensitive and selective enzymatic glucose sensor based on platinum nanoparticles embedded with acid treated reduced graphene oxide. <b>2016</b> ,	2
520	Novel Graphene-Modified Poly(styrene-b-isoprene-b-styrene) Enzymatic Fuel Cell with Operation in Plant Leaves. <b>2016</b> , 49, 2322-2336	10
519	Layered MoS <sub>2</sub> /graphene composites for biosensor applications with sensitive electrochemical performance. <b>2016</b> , 8, 3780-3787	17



518	Electrochemiluminescence detection of reduced and oxidized glutathione ratio by quantum dot-layered double hydroxide film. <b>2016</b> , 141, 3305-12	9
517	Highly sensitive non-enzymatic electrochemical glucose biosensor using a photolithography fabricated micro/nano hybrid structured electrode. <b>2016</b> , 230, 559-565	42
516	Optical fiber LPG biosensor integrated microfluidic chip for ultrasensitive glucose detection. <b>2016</b> , 7, 2067-77	54
515	Reduced graphene oxide-nickel nanoparticles/biopolymer composite films for the sub-millimolar detection of glucose. <b>2016</b> , 141, 4151-61	10
514	Graphene-based nanoelectronic biosensors. <b>2016</b> , 38, 13-22	65
513	Electrochemical immunoassay for the cancer marker LMP-1 (Epstein-Barr virus-derived latent membrane protein 1) using a glassy carbon electrode modified with Pd@Pt nanoparticles and a nanocomposite consisting of graphene sheets and MWCNTs. <b>2016</b> , 183, 2055-2062	14
512	Ultrasensitive Electrochemiluminescent Immunosensor for Detecting Brombuterol Based on Quantum Dots-Graphene@Gold Nanoparticles as Signal Enhancer. <b>2016</b> , 163, B352-B357	6
511	Graphene oxide nanosheets supported manganese(III) porphyrin: a highly efficient and reusable biomimetic catalyst for epoxidation of alkenes with sodium periodate. <b>2016</b> , 13, 1509-1516	13
510	Analytical performance of paper electro-biosensor detection platform for point-of-care diagnosis. <b>2016</b> , 23, 3799-3808	12
509	Functional nanostructures for enzyme based biosensors: properties, fabrication and applications. <b>2016</b> , 4, 7178-7203	46
508	Highly sensitive electrochemiluminescent immunosensor based on gold nanoparticles-functionalized zinc oxide nanorod and poly(amidoamine)-graphene for detecting brombuterol. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 899-906	11.8 41
507	Development of biofuel cell adopting multiple poly(diallyldimethylammonium chloride) layers immobilized on carbon nanotube as powerful catalyst. <b>2016</b> , 41, 17548-17556	19
506	Graphene Thin Films for Unusual Format Electronics. <b>2016</b> , 133-164	
505	Flexible micro supercapacitors based on laser-scribed graphene/ZnO nanocomposite. <b>2016</b> , 18, 1	21
504	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. <b>2016</b> , 52, 14438-14441	84
503	Graphene-Based Polymer Composites for Biomedical Applications. <b>2016</b> , 657-690	2
502	Fabrication of a novel disposable glucose biosensor using an electrochemically reduced graphene oxide/glucose oxidase biocomposite. <b>2016</b> , 8, 6974-6981	19
501	Three-dimensional macro-structures of two-dimensional nanomaterials. <b>2016</b> , 45, 5541-5588	231

500	Electrochemical Signal Tracing by Glucose Oxidase and Ferrocene Dually Functionalized Gold Nanoprobe for Ultrasensitive Immunoassay. <i>Electroanalysis</i> , <b>2016</b> , 28, 2993-2999	3	1
499	Electrochemical Characterization of Silver-Platinum Various Ratio Bimetallic Nanoparticles Modified Electrodes. <b>2016</b> , 44, 114-125		2
498	In Situ Sensor Advancements for Osteoporosis Prevention, Diagnosis, and Treatment. <b>2016</b> , 14, 386-395		21
497	Non-invasive screening for early Alzheimer's disease diagnosis by a sensitively immunomagnetic biosensor. <b>2016</b> , 6, 25155		41
496	Polyaniline-based glucose biosensor: A review. <b>2016</b> , 782, 138-153		90
495	Wearable Biofuel Cells: A Review. <i>Electroanalysis</i> , <b>2016</b> , 28, 1188-1200	3	126
494	Enzyme Electrode Platform Using Methyl Viologen Electrochemically Immobilized on Carbon Materials. <b>2016</b> , 163, G93-G98		6
493	Direct electrochemistry of cholesterol oxidase and biosensing of cholesterol based on PSS/polymeric ionic liquid/graphene nanocomposite. <b>2016</b> , 6, 59487-59496		15
492	Facet-dependent nonenzymatic glucose sensing properties of Cu <sub>2</sub> O cubes and octahedra. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 6573-6576	3.6	29
491	Some Mechanical Properties of Graphene and Their Role in Forming Polymer Nanocomposites. <b>2016</b> , 109-120		
490	Entrapping cross-linked glucose oxidase aggregates within a graphitized mesoporous carbon network for enzymatic biofuel cells. <b>2016</b> , 90, 26-34		25
489	Microwave-assisted synthesis of NaA nanozeolite from slag and performance of Ag-doped nanozeolite as an efficient material for determination of hydrogen peroxide. <b>2016</b> , 6, 52058-52066		4
488	A sensitive porphyrin/reduced graphene oxide electrode for simultaneous detection of guanine and adenine. <b>2016</b> , 20, 2055-2062		10
487	Graphene-Based DNA Sensors. <b>2016</b> , 31-44		
486	Design and Applications of Graphene- and Biomolecule-Based Nanosensors and Nanodevices. <b>2016</b> , 21-30		
485	Vapor grown carbon fiber combined with polyaniline and gold nanoparticles in composite bioelectrodes and their application in glucose fuel cells. <b>2016</b> , 6, 53705-53712		2
484	Covalent functionalization and electrochemical tuning of reduced graphene oxide for the bioelectrocatalytic sensing of serum lactate. <b>2016</b> , 4, 4585-4593		20
483	Utilization of hydrolysate from lignocellulosic biomass pretreatment to generate electricity by enzymatic fuel cell system. <b>2016</b> , 85, 32-7		4

482	Highly sensitive amperometric biosensor based on electrochemically-reduced graphene oxide-chitosan/hemoglobin nanocomposite for nitromethane determination. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 894-900	11.8	52
481	Glucose oxidase stabilized fluorescent gold nanoparticles as an ideal sensor matrix for dual mode sensing of glucose. <b>2016</b> , 6, 7212-7223		14
480	Graphene oxide for rapid determination of testosterone in the presence of cetyltrimethylammonium bromide in urine and blood plasma of athletes. <b>2016</b> , 61, 246-50		17
479	Novel visible-light-driven Fe <sub>2</sub> O <sub>3</sub> /Ag <sub>3</sub> VO <sub>4</sub> composite with enhanced photocatalytic activity toward organic pollutants degradation. <b>2016</b> , 6, 3600-3607		26
478	Recent development of carbon electrode materials and their bioanalytical and environmental applications. <b>2016</b> , 45, 715-52		205
477	A 3D paper-based enzymatic fuel cell for self-powered, low-cost glucose monitoring. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 193-7	11.8	77
476	Moving beyond flexible to stretchable conductive electrodes using metal nanowires and graphenes. <b>2016</b> , 8, 1789-822		59
475	One-step solvothermal preparation of silver-ZnO hybrid nanorods for use in enzymatic and direct electron-transfer based biosensing of glucose. <b>2016</b> , 183, 1705-1712		13
474	Graphene Functionalization for Biosensor Applications. <b>2016</b> , 85-141		24
473	Using silver nanocluster/graphene nanocomposite to enhance photoelectrochemical activity of CdS:Mn/TiO <sub>2</sub> for highly sensitive signal-on immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 80, 614-620	11.8	40
472	Graphene-zinc oxide nanorods nanocomposite based sensor for voltammetric quantification of tizanidine in solubilized system. <b>2016</b> , 369, 151-158		15
471	Integration of microfluidic injection analysis with carbon nanomaterials/gold nanowire arrays-based biosensors for glucose detection. <b>2016</b> , 61, 473-480		17
470	The hemoglobin-modified electrode with chitosan/Fe <sub>3</sub> O <sub>4</sub> nanocomposite for the detection of trichloroacetic acid. <b>2016</b> , 20, 1337-1344		12
469	Enzymatic sensing of glucose in artificial saliva using a flat electrode consisting of a nanocomposite prepared from reduced graphene oxide, chitosan, nafion and glucose oxidase. <b>2016</b> , 183, 1227-1233		31
468	A Facile Preparation of Titanium Dioxide-Iron Oxide@Silicon Dioxide Incorporated Reduced Graphene Oxide Nanohybrid for Electrooxidation of Methanol in Alkaline Medium. <i>Electrochimica Acta</i> , <b>2016</b> , 192, 167-176	6.7	16
467	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. <b>2016</b> , 183, 1625-1632		43
466	Glucose Oxidase Immobilization by Volume Shrinkage of Graphene as Door-Function Microelectrode. <b>2016</b> , 163, B169-B175		2
465	Paper-based enzymatic reactors for batch injection analysis of glucose on 3D printed cell coupled with amperometric detection. <b>2016</b> , 226, 196-203		48

464	Hybrid of carbon-supported Pt nanoparticles and three dimensional graphene aerogel as high stable electrocatalyst for methanol electrooxidation. <i>Electrochimica Acta</i> , <b>2016</b> , 189, 175-183	6.7	51
463	A novel multicomponent redox polymer nanobead based high performance non-enzymatic glucose sensor. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 84, 53-63	11.8	49
462	Biomedical Perspective of Electrochemical Nanobiosensor. <b>2016</b> , 8, 193-203		43
461	Graphene for Biomedical Applications. <b>2016</b> , 241-267		
460	Direct electrochemistry of glucose oxidase immobilized on Au nanoparticles-functionalized 3D hierarchically ZnO nanostructures and its application to bioelectrochemical glucose sensor. <b>2016</b> , 222, 1096-1102		88
459	Electrochemical determination of total reducing sugars from bioethanol production using glassy carbon electrode modified with graphene oxide containing copper nanoparticles. <b>2016</b> , 163, 112-121		26
458	Dual-function amperometric sensors based on poly(diallyldimethylammonium chloride)-functionalized reduced graphene oxide/manganese dioxide/gold nanoparticles nanocomposite. <b>2016</b> , 222, 663-673		46
457	Microbial and enzymatic fuel cells. <b>2016</b> , 147-173		2
456	Lable-free quadruple signal amplification strategy for sensitive electrochemical p53 gene biosensing. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 77, 157-63	11.8	21
455	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 76, 195-212	11.8	271
454	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 187-200	11.8	82
453	Amperometric biosensor based on electrochemically reduced graphene oxide/poly(m-dihydroxybenzene) composites for glucose determination. <b>2017</b> , 32, 1-6		14
452	Synergistic effect of pyrroloquinoline quinone and graphene nano-interface for facile fabrication of sensitive NADH biosensor. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 422-429	11.8	37
451	Electrochemical sensors and biosensors based on less aggregated graphene. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 167-186	11.8	88
450	A novel biosensor based on electro-co-deposition of sodium alginate-Fe <sub>3</sub> O <sub>4</sub> -graphene composite on the carbon ionic liquid electrode for the direct electrochemistry and electrocatalysis of myoglobin. <b>2017</b> , 74, 75-90		21
449	A New Electrochemical Sensing Platform Based on Binary Composite of Graphene Oxide-Chitosan for Sensitive Rutin Determination. <b>2017</b> , 10, 2332-2345		25
448	Highly stable aluminum-based metal-organic frameworks as biosensing platforms for assessment of food safety. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 804-810	11.8	82
447	Visual and quantitative detection of glucose based on the intrinsic peroxidase-like activity of CoSe <sub>2</sub> /rGO nanohybrids. <b>2017</b> , 245, 221-229		20

446	Simple and Large-Scale Strategy to Prepare Flexible Graphene Tape Electrode. <b>2017</b> , 9, 9089-9095		29
445	Self-assembly of glucose oxidase on reduced graphene oxide-magnetic nanoparticles nanocomposite-based direct electrochemistry for reagentless glucose biosensor. <b>2017</b> , 76, 398-405		106
444	Enhanced electrochemical oxidation of phenol by boron-doped diamond nanowire electrode. <b>2017</b> , 7, 6229-6235		33
443	Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth. <b>2017</b> , 75, 1168-1177		17
442	Fe N-Co N Nanowires Array: A Non-Noble-Metal Bifunctional Catalyst Electrode for High-Performance Glucose Oxidation and H O Reduction toward Non-Enzymatic Sensing Applications. <b>2017</b> , 23, 5214-5218		103
441	Platinum nanoparticle-assembled nanoflake-like tin disulfide for enzyme-based amperometric sensing of glucose. <b>2017</b> , 184, 2357-2363		11
440	Amperometric glucose biosensor based on immobilization of glucose oxidase on a magnetic glassy carbon electrode modified with a novel magnetic nanocomposite. <b>2017</b> , 249, 321-330		87
439	Paper Based Glucose Biosensor Using Graphene Modified with a Conducting Polymer and Gold Nanoparticles. <b>2017</b> , 164, G59-G64		29
438	The woven fiber organic electrochemical transistors based on polypyrrole nanowires/reduced graphene oxide composites for glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 95, 138-145	11.8	51
437	One-step hydrothermal treatment to fabricate BiWO-reduced graphene oxide nanocomposites for enhanced visible light photoelectrochemical performance. <b>2017</b> , 5, 3718-3727		24
436	Electrochemically Driven Omeprazole Metabolism via Cytochrome P450 Assembled on the Nanocomposites of Ceria Nanoparticles and Graphene. <b>2017</b> , 164, H470-H476		9
435	Amperometric l-lysine biosensor based on carboxylated multiwalled carbon nanotubes-SnO <sub>2</sub> nanoparticles-graphene composite. <b>2017</b> , 419, 916-923		17
434	Perovskite-type calcium titanate nanoparticles as novel matrix for designing sensitive electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 96, 220-226	11.8	31
433	Laser-Scribed Graphene Electrodes for Aptamer-Based Biosensing. <b>2017</b> , 2, 616-620		115
432	Precisely quantified catalyst based on in situ growth of Cu <sub>2</sub> O nanoparticles on a graphene 3D network for highly sensitive glucose sensor. <b>2017</b> , 250, 333-341		30
431	Nanomaterials as Implantable Sensors. <b>2017</b> , 123-139		3
430	Graphene based biosensors for healthcare. <b>2017</b> , 32, 2905-2929		28
429	Graphene-based Electrochemical Biosensors: New Trends and Applications. <b>2017</b> , 427-448		2

428	From Electrochemistry to Electroluminescence: Development and Application in a Ratiometric Aptasensor for Aflatoxin B1. <b>2017</b> , 89, 7578-7585	98
427	One step electro-oxidative preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic. <b>2017</b> , 173, 36-43	60
426	Biocatalyst including porous enzyme cluster composite immobilized by two-step crosslinking and its utilization as enzymatic biofuel cell. <b>2017</b> , 360, 172-179	19
425	Visible-light-activated photoelectrochemical biosensor for the detection of the pesticide acetochlor in vegetables and fruit based on its inhibition of glucose oxidase. <b>2017</b> , 7, 17489-17496	21
424	Application of Carbon-Based Nanomaterials as Biosensor. <b>2017</b> , 87-127	3
423	A comparative evaluation of the activity modulation of flavo and non-flavo enzymes induced by graphene oxide. <b>2017</b> , 5, 2601-2608	3
422	Synergistic contributions by decreasing overpotential and enhancing electrocatalytic reduction in ONPCNRs/SWCNTs nanocomposite for highly sensitive nonenzymatic detection of hydrogen peroxide. <b>2017</b> , 246, 726-733	6
421	Achievement and assessment of direct electron transfer of glucose oxidase in electrochemical biosensing using carbon nanotubes, graphene, and their nanocomposites. <b>2017</b> , 184, 369-388	72
420	Co-immobilization of glucose oxidase and catalase for enhancing the performance of a membraneless glucose biofuel cell operated under physiological conditions. <b>2017</b> , 9, 1993-2002	57
419	Fabrication of nanozyme@DNA hydrogel and its application in biomedical analysis. <b>2017</b> , 10, 959-970	44
418	Alginate copper oxide nano-biocomposite as a novel material for amperometric glucose biosensing. <b>2017</b> , 74, 307-314	34
417	Functionalized graphene oxide/polypyrrole/chitosan (fGO/PPy/CS) modified screen-printed electrodes for non-enzymatic hydrogen peroxide detection. <b>2017</b> , 19, 1	10
416	Electrochemically exfoliated graphene as a novel microwave susceptor: the ultrafast microwave-assisted synthesis of carbon-coated silicon-graphene film as a lithium-ion battery anode. <b>2017</b> , 9, 15582-15590	26
415	Highly sensitive glucose biosensor using new glucose oxidase based biocatalyst. <b>2017</b> , 34, 2916-2921	39
414	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. <b>2017</b> , 7, 11910	86
413	Physical and Electrochemical Properties of Iron Oxide Nanoparticles-modified Electrode for Amperometric Glucose Detection. <i>Electrochimica Acta</i> , <b>2017</b> , 248, 160-168	6.7 20
412	Polyethylene imine/graphene oxide layer-by-layer surface functionalization for significantly improved limit of detection and binding kinetics of immunoassays on acrylate surfaces. <b>2017</b> , 158, 167-174	17
411	A sensitive electrochemiluminescence glucose biosensor based on graphene quantum dot prepared from graphene oxide sheets and hydrogen peroxide. <b>2017</b> , 801, 162-170	28

410	Design and tailoring of a three-dimensional reduced graphene oxide/helical carbon nanotube composite for electrochemical biosensing application. <b>2017</b> , 21, 3675-3681	4
409	Feasibility of graphene in biomedical applications. <b>2017</b> , 94, 354-361	83
408	Graphene Applications in Biosensors and Diagnostics. <b>2017</b> , 297-326	1
407	Globular Shaped Polypyrrole Doped Well-Dispersed Functionalized Multiwall Carbon Nanotubes/Nafion Composite for Enzymatic Glucose Biosensor Application. <b>2017</b> , 7, 16191	29
406	Ultra-low charge transfer resistance carbons by one-pot hydrothermal method for glucose sensing. <b>2017</b> , 60, 1234-1244	5
405	Three-dimensional architecture of Ag/CeO <sub>2</sub> nanorod composites prepared by dealloying and their electrocatalytic performance. <b>2017</b> , 7, 32442-32451	8
404	Self-assembled monolayer assisted binding of partially oxidized graphene on gold: Tunable electron-transfer mediation and in-situ electrochemical disassembly. <b>2017</b> , 425, 188-193	6
403	Enhanced direct electron transfer of glucose oxidase based on gold nanoprism and its application in biosensing. <b>2017</b> , 529, 113-118	23
402	Development of High Performance Electrochemical and Physical Biosensors Based on Chemically Modified Graphene Nanostructured Electrodes. <b>2017</b> , 164, B391-B396	14
401	A novel BOD biosensor based on entrapped activated sludge in a porous chitosan-albumin cryogel incorporated with graphene and methylene blue. <b>2017</b> , 241, 473-481	24
400	Biomimetic and bioinspired approaches for wiring enzymes to electrode interfaces. <b>2017</b> , 10, 14-42	58
399	Nanoparticles-assembled NiO nanosheets templated by graphene oxide film for highly sensitive non-enzymatic glucose sensing. <b>2017</b> , 238, 788-794	65
398	The impact of immobilization process on the electrochemical performance, bioactivity and conformation of glucose oxidase enzyme. <b>2017</b> , 238, 852-861	35
397	Printed organo-functionalized graphene for biosensing applications. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 7-17	11.8 33
396	MnO <sub>2</sub> /reduced graphene oxide nanoribbons: Facile hydrothermal preparation and their application in amperometric detection of hydrogen peroxide. <b>2017</b> , 239, 544-552	90
395	Flow-injection electrochemical determination of glucose by a poly[1-(2-aminophenyl) pyrrole] modified gold electrode. <b>2017</b> , 45, 276-289	
394	Synthesis, characterization of Ag-Au core-shell bimetal nanoparticles and its application for electrocatalytic oxidation/sensing of L-methionine. <b>2017</b> , 70, 656-664	24
393	Materials for Chemical Sensing. <b>2017</b> ,	5



392	Fabrication of mediator-free hybrid nano-interfaced electrochemical biosensor for monitoring cancer cell proliferation. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 832-841	11.8	22
391	A highly sensitive disposable glucose biosensor based on platinum nanoflowers decorated screen printed carbon electrode. <b>2017</b> ,		1
390	Smart Nanomaterials. <b>2017</b> , 219-276		1
389	A highly performed nonenzymatic glucose sensor using surfactant template assisted platinum nanoparticles. <b>2017</b> ,		
388	Electrochemical immunosensing. <b>2017</b> , 77-110		
387	Highly sensitive and selective liquid crystal optical sensor for detection of ammonia. <b>2017</b> , 25, 13549-13556		23
386	In Vitro Quantified Determination of $\beta$ Amyloid 42 Peptides, a Biomarker of Neuro-Degenerative Disorders, in PBS and Human Serum Using a Simple, Cost-Effective Thin Gold Film Biosensor. <b>2017</b> , 7,		11
385	Detection of Quinoline in <i>G. boninense</i> -Infected Plants Using Functionalized Multi-Walled Carbon Nanotubes: A Field Study. <b>2017</b> , 17,		8
384	Copper Oxide Chitosan Nanocomposite: Characterization and Application in Non-Enzymatic Hydrogen Peroxide Sensing. <b>2017</b> , 17,		15
383	Electrochemical Biosensors Based on Nanostructured Carbon Black: A Review. <b>2017</b> , 2017, 1-14		64
382	Versatile sarcosine and creatinine biosensing schemes utilizing layer-by-layer construction of carbon nanotube-chitosan composite films. <b>2018</b> , 814, 20-30		17
381	CNT Applications in Drug and Biomolecule Delivery. <b>2018</b> , 61-64		9
380	Synthesis and Chemical Modification of Graphene. <b>2018</b> , 107-119		
379	Graphene Applications in Sensors. <b>2018</b> , 125-132		
378	Graphene Applications in Batteries and Energy Devices. <b>2018</b> , 133-139		2
377	Medical and Pharmaceutical Applications of Graphene. <b>2018</b> , 149-150		1
376	Graphene Applications in Specialized Materials. <b>2018</b> , 151-154		
375	Miscellaneous Applications of Graphene. <b>2018</b> , 155-155		



374	Basic Electrochromics of CPs. <b>2018</b> , 251-282		
373	Batteries and Energy Devices. <b>2018</b> , 575-600		
372	Brief, General Overview of Applications. <b>2018</b> , 43-44		
371	CNT Applications in Batteries and Energy Devices. <b>2018</b> , 49-52		1
370	Hierarchically structured CuFe <sub>2</sub> O <sub>4</sub> ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. <b>2018</b> , 5, 944-950		44
369	Review Covalent Functionalization of Carbon Nanomaterials for Biosensor Applications: An Update. <b>2018</b> , 165, B103-B117		28
368	Direct Electrochemiluminescence Imaging of a Single Cell on a Chitosan Film Modified Electrode. <b>2018</b> , 90, 4801-4806		52
367	Controlling enzyme function through immobilisation on graphene, graphene derivatives and other two dimensional nanomaterials. <b>2018</b> , 6, 3200-3218		32
366	Enhancing surface immobilization of bioactive molecules a silica nanoparticle based coating. <b>2018</b> , 6, 3058-3067		11
365	A non-enzymatic nanoceria electrode for non-invasive glucose monitoring. <b>2018</b> , 10, 2151-2159		16
364	Methodologies for "Wiring" Redox Proteins/Enzymes to Electrode Surfaces. <b>2018</b> , 24, 12164-12182		60
363	Reduced graphene oxide/gold nanoparticles nanocomposite-modified glassy carbon electrode for determination of endocrine disruptor methylparaben. <b>2018</b> , 813, 163-170		32
362	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. <b>2018</b> , 10, 6055-6072		76
361	Immobilization of horseradish peroxidase on amino-functionalized carbon dots for the sensitive detection of hydrogen peroxide. <b>2018</b> , 185, 114		36
360	Ni-MOF nanosheet arrays: efficient non-noble-metal electrocatalysts for non-enzymatic monosaccharide sensing. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 3180-3183	3.6	32
359	Fabrication of a novel ZnO@CoO/rGO nanocomposite for nonenzymatic detection of glucose and hydrogen peroxide. <b>2018</b> , 44, 5250-5256		21
358	Ferritin based bionanocages as novel biomemory device concept. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 103, 19-25	11.8	13
357	Graphene and its sensor-based applications: A review. <b>2018</b> , 270, 177-194		308

356	Aldehyde functionalized ionic liquid on electrochemically reduced graphene oxide as a versatile platform for covalent immobilization of biomolecules and biosensing. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 103, 104-112	11.8	45
355	Synthesis of perovskite-type SrTiO <sub>3</sub> nanoparticles for sensitive electrochemical biosensing applications. <b>2018</b> , 810, 95-99		17
354	Graphene oxide supported liposomes for efficient label free electrochemical DNA biosensing. <b>2018</b> , 260, 841-851		20
353	Magnetic nanoparticle decorated graphene based electrochemical nanobiosensor for HO sensing using HRP. <b>2018</b> , 167, 425-431		30
352	Fabrication of a promising immobilization platform based on electrochemical synthesis of a conjugated polymer. <b>2018</b> , 167, 392-396		3
351	Graphene coated silica microfiber for highly sensitive magnesium sensor. <b>2018</b> , 273, 67-71		6
350	Electrochemical detection of hydroquinone based on MoS <sub>2</sub> /reduced graphene oxide nanocomposites. <b>2018</b> , 816, 38-44		29
349	Boron-doped diamond nanowire array electrode with high mass transfer rates in flow-by operation.. <b>2018</b> , 8, 11102-11108		3
348	Glucose biofuel cells using bi-enzyme catalysts including glucose oxidase, horseradish peroxidase and terephthalaldehyde crosslinker. <b>2018</b> , 334, 1085-1092		33
347	Highly sensitive nonenzymatic glucose sensing platform based on MOF-derived NiCo LDH nanosheets/graphene nanoribbons composite. <b>2018</b> , 808, 114-123		67
346	Graphene-polymer nanocomposites for biomedical applications. <b>2018</b> , 29, 687-700		51
345	Improved glucose label-free biosensor with layer-by-layer architecture and conducting polymer poly(3,4-ethylenedioxythiophene). <b>2018</b> , 255, 3227-3234		39
344	Biofuel Cells. <b>2018</b> , 161-190		1
343	Synthesis and characterization of novel Ti doped hexagonal mesoporous silica catalyst for nonenzymatic hydrogen peroxide oxidation. <b>2018</b> , 257, 92-98		11
342	Luminol, horseradish peroxidase, and glucose oxidase ternary functionalized graphene oxide for ultrasensitive glucose sensing. <b>2018</b> , 410, 543-552		20
341	Highly sensitive and selective non-enzymatic monosaccharide and disaccharide sugar sensing based on carbon paste electrodes modified with perforated NiO nanosheets. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 964-973	3.6	19
340	International research effort on graphene over the past 10 years. <b>2018</b> , 4, 166-182		2
339	Impedancemetric Detection of Glucose Using a Biosensor Based on Screen-Printed Electrodes. <b>2018</b> , 54, 1217-1220		1

338	One-step synthesis of non-symmetric CuI nanoplates for a highly sensitive non-enzymatic glucose biosensor. <b>2018</b> , 20, 7582-7589		6
337	Overviews of Biomimetic Medical Materials. <b>2018</b> , 1064, 3-24		3
336	Effects of the gold nanoparticles including different thiol functional groups on the performances of glucose-oxidase-based glucose sensing devices. <b>2018</b> , 35, 2421-2429		27
335	Electrocomposite Developed with Chitosan and Ionic Liquids Using Screen-Printed Carbon Electrodes Useful to Detect Rutin in Tropical Fruits. <b>2018</b> , 18,		0
334	Graphene Oxide-Based Biosensors. <b>2018</b> ,		3
333	Electrochemical Measurements of Multiwalled Carbon Nanotubes under Different Plasma Treatments. <b>2018</b> , 11,		2
332	Adsorptive removal of cationic and anionic dyes using graphene oxide. <b>2018</b> , 78, 732-742		8
331	Recent advances in designing nanomaterial based biointerfaces for electrochemical biosensing cardiovascular biomarkers. <b>2018</b> , 161, 344-376		25
330	Fabrication of Cu <sub>2</sub> O/TiO <sub>2</sub> /sepiolite electrode for effectively detecting of H <sub>2</sub> O <sub>2</sub> . <b>2018</b> , 827, 1-9		18
329	A biosensor based on a graphene nanoribbon/silver nanoparticle/polyphenol oxidase composite matrix on a graphite electrode: application in the analysis of catechol in green tea samples. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16620-16629	3.6	26
328	Noncovalent Monolayer Modification of Graphene Using Pyrene and Cyclodextrin Receptors for Chemical Sensing. <b>2018</b> , 1, 2718-2726		19
327	Morphology control of 3D-networked boron-doped diamond nanowires and its electrochemical properties. <b>2018</b> , 820, 140-145		10
326	A Review on Graphene-Based Nanomaterials in Biomedical Applications and Risks in Environment and Health. <b>2018</b> , 10, 53		183
325	Dual range lactate oxidase-based screen printed amperometric biosensor for analysis of lactate in diversified samples. <b>2018</b> , 188, 779-787		14
324	Graphene as a Material [An Overview of Its Properties and Characteristics and Development Potential for Practical Applications. <b>2018</b> ,		8
323	Chemical sensing with 2D materials. <b>2018</b> , 47, 4860-4908		317
322	Lipase@ZIF-8 nanoparticles-based biosensor for direct and sensitive detection of methyl parathion. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 509-516	6.7	46
321	A novel enzyme-free glucose and HO sensor based on 3D graphene aerogels decorated with NiN nanoparticles. <b>2018</b> , 1038, 11-20		55

320	Development of an Amperometric Glucose Biosensor Based on the Immobilization of Glucose Oxidase on the Se-MCM-41 Mesoporous Composite. <b>2018</b> , 2018, 2687341	15
319	Flexible substrate sensors for multiplex biomarker monitoring. <b>2018</b> , 8, 627-641	10
318	Porous NiTe <sub>2</sub> nanosheet array: An effective electrochemical sensor for glucose detection. <b>2018</b> , 274, 427-432	18
317	S-Layer Protein-Based Biosensors. <b>2018</b> , 8,	27
316	Carbon-Based Nanomaterials/Allotropes: A Glimpse of Their Synthesis, Properties and Some Applications. <b>2018</b> , 11,	148
315	Multifunctional solid-state electrochemiluminescent chemosensors and aptasensor with free-standing active sites based on task-specific pyrene-terminated polymers via RAFT polymerization. <b>2018</b> , 1039, 31-40	8
314	Nanocomposite Materials. <b>2018</b> , 145-159	2
313	Advances in enzyme bioelectrochemistry. <b>2018</b> , 90, 825-857	21
312	MWCNTs coated silica microfiber sensor for detecting Mg <sup>2+</sup> in de-ionized water. <b>2018</b> , 171, 65-70	4
311	Hybridized graphene nanomaterials for drug delivery, cyto-compatibility, and electrochemical biosensor application * *Volume VI: Carbon (Nanotube, Fullerene, Graphene) Nanomaterials.. <b>2018</b> , 375-411	1
310	Prototype Biosensing Devices. <b>2018</b> , 1-28	2
309	Enhanced Specificity and Sensitivity for the Determination of Nickel(II) by Square-wave Adsorptive Cathodic Stripping Voltammetry at Disposable Graphene-modified Pencil Graphite Electrodes. <b>2019</b> , 52, 373-398	13
308	Fabrication and application of graphene-based composites for indoor air quality and wastewater treatment. <b>2019</b> , 359-387	
307	Nitrogen-containing three-dimensional biomass porous carbon materials as an efficient enzymatic biosensing platform for glucose sensing.. <b>2019</b> , 9, 25647-25654	9
306	A Novel Bismuth-Chitosan Nanocomposite Sensor for Simultaneous Detection of Pb(II), Cd(II) and Zn(II) in Wastewater. <b>2019</b> , 10,	13
305	Nanoporous gold electrode for ultrasensitive detection of neurotoxin fasciculin. <b>2019</b> , 1085, 91-97	2
304	Acetylcholinesterase Biosensor Based on Gold Nanoparticles/NitrogenDoped Vertically Oriented Reduced Graphene Oxide Prepared by SingleStep Electrodeposition. <b>2019</b> , 166, B1088-B1096	6
303	Carbon nanohorn modified platinum electrodes for improved immobilisation of enzyme in the design of glutamate biosensors. <b>2019</b> , 144, 5299-5307	11

302	Two-dimensional nanomaterials for biosensing applications. <b>2019</b> , 119, 115610	59
301	Review of Carbon and Graphene Quantum Dots for Sensing. <b>2019</b> , 4, 1732-1748	362
300	One-step synthesized 2D heteroatom doped graphene for high throughput electrochemical biosensing: A combined experimental and computational studies. <b>2019</b> , 100, 107592	4
299	Enhanced Sensitivity of Dopamine Biosensors: An Electrochemical Approach Based on Nanocomposite Electrodes Comprising Polyaniline, Nitrogen-Doped Graphene, and DNA-Functionalized Carbon Nanotubes. <b>2019</b> , 166, B1415-B1425	16
298	Self-Assembled Thin Films of Graphene Materials for Sensors. <b>2019</b> , 569-602	
297	Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping. <b>2019</b> , 663-682	2
296	Graphene-Based Biosensors: Design, Construction, and Validation. Toward a Nanotechnological Tool for the Rapid in-Field Detection of Food Toxicants and Environmental Pollutants. <b>2019</b> , 99-116	1
295	High-performance enzymatic biofuel cell based on three-dimensional graphene. <b>2019</b> , 44, 30367-30374	17
294	Current Trends of Nanobiosensors for Point-of-Care Diagnostics. <b>2019</b> , 2019, 2179718	40
293	Development of Electrochemical Sensor for Detection of L-Tryptophan Based on Exfoliated Graphene/PEDOT:PSS. <b>2019</b> , 14, 1950058	4
292	Ultrafast Spectroscopic Study of InsulatorSemiconductorSemimetal Transitions in Graphene Oxide and Its Reduced Derivatives. <b>2019</b> , 123, 22550-22555	7
291	A Flexible Acetylcholinesterase-Modified Graphene for Chiral Pesticide Sensor. <b>2019</b> , 141, 14643-14649	36
290	Performance evaluation of enzymatic biofuel cells using a new cathodic catalyst containing hemin and poly acrylic acid promoting the oxygen reduction reaction. <b>2019</b> , 7, 11597-11605	21
289	Target DNA detection of human papilloma virus-16 E7 gene by capture-target-reporter sandwich on interdigitated electrode sensor. <b>2019</b> , 141, 564-569	19
288	Biosensing Using a Simple Resistor: The Effect of Functionalization on Sensing Devices. <b>2019</b> , 2019, 1-8	3
287	Temperature-induced amperometric glucose biosensor based on a poly(N-vinylcaprolactam)/graphene oxide composite film. <b>2019</b> , 144, 1960-1967	11
286	Self-assembly of a magnetic DNA hydrogel as a new biomaterial for enzyme encapsulation with enhanced activity and stability. <b>2019</b> , 55, 2449-2452	31
285	A novel copper(II)phthalocyanine-modified multiwalled carbon nanotube-based electrode for sensitive electrochemical detection of bisphenol A. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 85-92	3.6 48

284	Voltammetric sensing of formaldehyde by using a nanocomposite prepared by reductive deposition of palladium and platinum on polypyrrole-coated nitrogen-doped reduced graphene oxide. <b>2019</b> , 186, 369		7
283	Direct electrochemistry of glucose oxidase based on one step electrodeposition of reduced graphene oxide incorporating polymerized l-lysine and its application in glucose sensing. <b>2019</b> , 104, 109880		14
282	Graphene- and Graphene Oxide-Based Nanocomposite Platforms for Electrochemical Biosensing Applications. <b>2019</b> , 20,		59
281	Electrochemical methods for detection of biomarkers of Chronic Obstructive Pulmonary Disease in serum and saliva. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111453	11.8	21
280	Simultaneous electrochemical sensing of three prevalent anti-allergic drugs utilizing nanostructured manganese hexacyanoferrate/chitosan modified screen printed electrode. <b>2019</b> , 294, 231-244		11
279	Growth of umbrella-like millimeter-scale single-crystalline graphene on liquid copper. <b>2019</b> , 150, 356-362		4
278	3D graphene/MWNTs nano-frameworks embedded Ag-Au bimetallic NPs for carcinoembryonic antigen detection. <i>Microchemical Journal</i> , <b>2019</b> , 148, 548-554	4.8	9
277	Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications. <b>2019</b> , 4, 5322-5337		93
276	Preparation and characterization of dithiol-modified graphene oxide nanosheets reinforced alginate nanocomposite as bone scaffold. <b>2019</b> , 1, 1		14
275	Hyphenation of enzyme/graphene oxide-ionic liquid/glassy carbon biosensors with anodic differential pulse stripping voltammetry for reliable determination of choline and acetylcholine in human serum. <b>2019</b> , 200, 107-114		19
274	Three-dimensional flower-like NiMnB on Ti mesh: a monolithic electrochemical platform for detecting glucose. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 7866-7873	3.6	4
273	Ultra-bright emission from Sr doped TiO nanoparticles through r-GO conjugation. <b>2019</b> , 6, 190100		9
272	Emerging Trends in the Syntheses of Heterocycles Using Graphene-based Carbocatalysts: An Update. <i>Topics in Current Chemistry</i> , <b>2019</b> , 377, 13	7.2	10
271	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors.. <b>2019</b> , 9, 8778-8881		342
270	Advanced biosensors for glucose and insulin. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 141, 111201	11.8	79
269	Polymer and modified chitosan-based nanocomposite: impending material for technical application. <b>2019</b> , 58, 934-947		3
268	Literature Review. <b>2019</b> , 17-81		
267	Functionalized Graphene Oxide Bridging between Enzyme and Au-Sputtered Screen-Printed Interface for Glucose Detection. <b>2019</b> , 2, 1589-1596		22

266	PdAg/Graphene Electrochemical Sensor for Chlorophenol Contaminant Determination. <b>2019</b> , 166, B266-B275	10
265	Nanomaterials for molecular sensing. <b>2019</b> , 413-487	2
264	Biomedical application of graphenes. <b>2019</b> , 319-339	4
263	CuFe <sub>2</sub> O <sub>4</sub> /reduced graphene oxide nanocomposite decorated with gold nanoparticles as a new electrochemical sensor material for L-cysteine detection. <b>2019</b> , 791, 391-401	52
262	Disposable bismuth-based electrodes for heavy metal ion detection. <b>2019</b> , 228, 012014	1
261	A simple and flexible enzymatic glucose biosensor using chitosan entrapped mesoporous carbon nanocomposite. <i>Microchemical Journal</i> , <b>2019</b> , 147, 848-856	4.8 31
260	Enhanced electrochemical sensing of secondary metabolites in oil palms for early detection of <i>Ganoderma boninense</i> based on novel nanoparticle-chitosan functionalized multi-walled carbon nanotube platform. <i>Sensing and Bio-Sensing Research</i> , <b>2019</b> , 23, 100274	3.3 7
259	Light-Induced Tunable n-Doping of Ag-Embedded GO/RGO Sheets in Polymer Matrix. <b>2019</b> , 123, 10557-10563	4
258	Characterization of the Lipid Structure and Fluidity of Lipid Membranes on Epitaxial Graphene and Their Correlation to Graphene Features. <b>2019</b> , 35, 4726-4735	4
257	Printed Flexible Sensors. <b>2019</b> ,	1
256	Superior liquid fuel oxidation electrocatalysis enabled by novel bimetallic PtNi nanorods. <b>2019</b> , 425, 179-185	21
255	Comprehensive spectroscopic studies of synergism between Gadong starch based carbon dots and bovine serum albumin. <b>2019</b> , 218, 85-96	10
254	Highly conductive electrocatalytic gold nanoparticle-assembled carbon fiber electrode for high-performance glucose-based biofuel cells. <b>2019</b> , 7, 13495-13505	23
253	A Review of the Construction of Nano-Hybrids for Electrochemical Biosensing of Glucose. <b>2019</b> , 9,	53
252	Ferrocene-Modified Polyelectrolyte Film-Coated Electrode and Its Application in Glucose Detection. <i>Polymers</i> , <b>2019</b> , 11,	4.5 8
251	Spatial Architecture of Modified Carbon Nanotubes/Electrochemically Reduced Graphene Oxide Nanomaterial for Fast Electron Transfer. Application in Glucose Biosensor. <i>Electroanalysis</i> , <b>2019</b> , 31, 981-990	4
250	A shriveled rectangular carbon tube with the concave surface for high-performance enzymatic glucose/O <sub>2</sub> biofuel cells. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 132, 76-83	11.8 28
249	Cathodic stripping voltammetric determination of iodide using disposable sensors. <b>2019</b> , 199, 262-269	8



248	Characterization of nanomaterials in textiles. <b>2019</b> , 219-261		0
247	Advanced biomaterials for biosensor and theranostics. <b>2019</b> , 213-255		20
246	Synthesis of Co <sub>3</sub> O <sub>4</sub> -NiO nano-needles for amperometric sensing of glucose. <b>2019</b> , 838, 41-47		33
245	An injection molding method to prepare chitosan-zinc composite material for novel biodegradable flexible implant devices. <b>2019</b> , 34, 256-261		6
244	A review of studies using graphenes in energy conversion, energy storage and heat transfer development. <b>2019</b> , 184, 581-599		79
243	Scalable synthesis of heterostructure of Fe <sub>2</sub> O <sub>3</sub> @Au nanomaterials for application in biological detection. <b>2019</b> , 6, 1250b5		4
242	Quantum mechanical study of chemical reactivity of graphene doped with iron in aqueous medium for applications in biomedicine. <b>2019</b> , 21, 1		1
241	Functionalization of Carbon Nanomaterials for Biomedical Applications. <i>Journal of Carbon Research</i> , <b>2019</b> , 5, 72	3.3	28
240	Molecular Simulation of Interaction between Graphene Doped with Iron and Coenzyme A. <b>2019</b> , 4, 3523-3536		
239	A novel electrochemical sensor based on microporous polymeric nanospheres for measuring peroxy nitrite anion released by living cells and studying the synergistic effect of antioxidants. <b>2019</b> , 144, 6905-6913		6
238	A TiO <sub>2</sub> @SnS <sub>2</sub> nanocomposite as a novel matrix for the development of an enzymatic electrochemical glucose biosensor. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 16748-16752	3.6	8
237	Wearable Skin-Worn Enzyme-Based Electrochemical Devices: Biosensing, Energy Harvesting, and Self-Powered Sensing. <b>2019</b> ,		5
236	Enhancing the Efficiency of Graphene Oxide Reduction in Low-Power Digital Video Disc Drives by a Simple Precursor Heat Treatment. <b>2019</b> , 11, 48162-48171		3
235	Exploration of Chitinous Scaffold-Based Interfaces for Glucose Sensing Assemblies. <i>Polymers</i> , <b>2019</b> , 11,	4.5	10
234	Chemical Sensors Based on Two-Dimensional (2D) Materials for Selective Detection of Ions and Molecules in Liquid. <b>2019</b> , 7, 708		40
233	Co-MOF nanosheet array: A high-performance electrochemical sensor for non-enzymatic glucose detection. <b>2019</b> , 278, 126-132		151
232	An electrochemical aptasensor based on graphene doped chitosan nanocomposites for determination of Ochratoxin A. <i>Microchemical Journal</i> , <b>2019</b> , 144, 102-109	4.8	40
231	A direct "touch" approach for gold nanoflowers decoration on graphene/ionic liquid composite modified electrode with good properties for sensing bisphenol A. <b>2019</b> , 191, 400-408		15

230	Reduced graphene oxide doping with nanometer-sized ferrocene moieties - New active material for glucose redox sensors. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 128, 23-31	11.8	17
229	Sol-gel assisted spin coated CdS/PS electrode based glucose biosensor. <b>2019</b> , 161, 291-296		10
228	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. <b>2019</b> , 119, 478-598		294
227	Highly sensitive and selective estimation of aspartame by chitosan nanoparticles-graphene nanocomposite tailored EQCM-MIP sensor. <b>2019</b> , 76, 4431-4449		11
226	A Novel Two-Electrode Nonenzymatic Electrochemical Glucose Sensor Based on Vertically Aligned Carbon Nanotube Arrays. <b>2019</b> , 3, 1-4		4
225	Preparation of NiCo <sub>2</sub> O <sub>4</sub> and NiCo <sub>2</sub> S <sub>4</sub> micro-onions for electrochemical sensing of glucose. <b>2019</b> , 125, 1		3
224	Ratiometric electrochemical glucose sensor based on electroactive Schiff base polymers. <b>2019</b> , 285, 264-270		36
223	Graphene-Based Nanovehicles for Drug Delivery. <b>2019</b> , 77-111		3
222	Functionalized Graphene Nanocomposites for Electrochemical Sensors. <b>2019</b> , 43-65		3
221	Carbon Nanotubes and Graphene for Sensor Technology. <b>2019</b> , 205-222		5
220	The electrochemical glucose sensing based on the chitosan-carbon nanotube hybrid. <b>2019</b> , 144, 227-234		18
219	Highly Sensitive Voltammetric Sensor Using Carbon Nanotube and an Ionic Liquid Composite Electrode for Xylazine Hydrochloride. <b>2019</b> , 35, 189-194		5
218	Macroscale Biomolecular Electronics and Ionics. <b>2019</b> , 31, e1802221		53
217	Flexible glucose/oxygen enzymatic biofuel cells based on three-dimensional gold-coated nickel foam. <b>2019</b> , 23, 169-178		10
216	Fabrication and evaluation of a carbon quantum dot/gold nanoparticle nanohybrid material integrated onto planar micro gold electrodes for potential bioelectrochemical sensing applications. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 307-317	6.7	34
215	Trends on enzyme immobilization researches based on bibliometric analysis. <b>2019</b> , 76, 95-110		73
214	Electron transfer from FAD-dependent glucose dehydrogenase to single-sheet graphene electrodes. <i>Electrochimica Acta</i> , <b>2020</b> , 330, 134998	6.7	6
213	A sensitive non-enzymatic electrochemical sensor based on acicular manganese dioxide modified graphene nanosheets composite for hydrogen peroxide detection. <b>2020</b> , 190, 110123		35

212	High sensitive polyaniline nanosheets (PANINS) @rGO as non-enzymatic glucose sensor. <b>2020</b> , 31, 2926-2937	5
211	D-amino acid electrochemical biosensor based on D-amino acid oxidase: Mechanism and high performance against enantiomer interference. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 151, 111971	11.8 12
210	High-Performance Intraocular Biosensors from Chitosan-Functionalized Nitrogen-Containing Graphene for the Detection of Glucose. <b>2020</b> , 6, 673-679	31
209	Graphene and graphene oxide: Raw materials, synthesis, and application. <b>2020</b> ,	2
208	Electrochemical sensing of glucose by chitosan modified graphene oxide. <b>2020</b> , 3, 014011	8
207	NH <sub>2</sub> -GQDs-Doped Nickel-Cobalt Oxide Deposited on Carbon Cloth for Nonenzymatic Detection of Glucose. <b>2020</b> , 7, 1901578	13
206	Facile synthesis of copper ferrite nanoparticles with chitosan composite for high-performance electrochemical sensor. <b>2020</b> , 63, 104902	18
205	Review on exploration of graphene in the design and engineering of smart sensors, actuators and soft robotics. <b>2020</b> , 4, 100034	22
204	Microfluidic electrochemical immunosensor for the determination of cystatin C in human serum. <b>2020</b> , 187, 585	12
203	Evaluation of bio-fenton oxidation approach for the remediation of trichloroethylene from aqueous solutions. <b>2020</b> , 270, 110899	6
202	Recycled Low-Density Polyethylene for Noninvasive Glucose Monitoring: A Proposal for Plastic Recycling that Adds Technological Value. <b>2020</b> , 8, 12554-12560	2
201	Effect of nanostructured MoS <sub>2</sub> morphology on the glucose sensing of electrochemical biosensors. <b>2020</b> , 20, 1090-1096	7
200	Influence of swelling level on charge transmission of chitosan and reduced graphene oxide film electrodes. <b>2020</b> , 255, 123623	3
199	Glucose sensing by a glassy carbon electrode modified with glucose oxidase/chitosan/graphene oxide nanofibers. <b>2020</b> , 109, 108073	13
198	Recent Developments in Graphene and Graphene Oxide: Properties, Synthesis, and Modifications: A Review. <b>2020</b> , 5, 10200-10219	34
197	Advances in Nanotechnology and Its Applications. <b>2020</b> ,	
196	Toxicity Studies on Graphene-Based Nanomaterials in Aquatic Organisms: Current Understanding. <b>2020</b> , 25,	14
195	Interaction of modified nucleic bases with graphene and doped graphenes: a DFT study. <b>2020</b> , 43, 1	0

194	. 2020,	0
193	Graphene based nanocomposites: Synthesis, properties and application as electrochemical sensors. 2020, 91, 1-20	2
192	Preparation and properties of a glucose biosensor based on an ionic liquid-functionalized graphene/carbon nanotube composite. 2020, 35, 12-19	12
191	Synergy between nanozymes and natural enzymes on the hybrid MoS nanosheets/graphite microfiber for enhanced voltammetric determination of hydrogen peroxide. 2020, 187, 321	11
190	Faradaic effects in electrochemically gated graphene sensors in the presence of redox active molecules. 2020, 31, 405201	3
189	A novel composite gold/gold nanoparticles/carbon nanotube electrode for frequency-stable micro-electrical impedance tomography. 2020, 31, 10803-10810	2
188	Efficient Z-Scheme heterostructure based on TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Cu <sub>2</sub> O to boost photoelectrochemical response for ultrasensitive biosensing. 2020, 312, 127951	27
187	Current Use of Carbon-Based Materials for Biomedical Applications: A Prospective and Review. 2020, 8, 355	23
186	Applications of chitosan (CHI)-reduced graphene oxide (rGO)-polyaniline (PANI) conducting composite electrode for energy generation in glucose biofuel cell. 2020, 10, 10428	37
185	Nanomaterial-based gas sensor for environmental science and technology. 2020, 229-252	1
184	Improving the Immobilization of Glucose Oxidase on Carbon Cloth Via a Hybrid Approach of Cross-Linked Chitosan/TPP Matrices with Na Polymers for High-Performance Self-Pumping Enzyme-Based Biofuel Cells. 2020, 34, 10050-10058	7
183	Design of high-performance electrochemistry sensors: Elucidation of detection mechanism by DFT studies. 2020, 860, 113905	0
182	Recent advances in nano-carrier immobilized enzymes and their applications. 2020, 92, 464-475	88
181	Review: Recent Advances in Carbon Nanomaterials as Electrochemical Biosensors. 2020, 167, 037555	148
180	Bionanomaterial-based electrochemical biosensing platforms for biomedical applications. 2020, 12, 1688-1701	17
179	Recent advances in self-assemblies and sensing applications of colloidal photonic crystals. 2020, 1123, 91-112	13
178	Electrochemical Chiral Recognition for a Complex System Based on Specific Enzymatic Reactions. 2020, 167, 027523	4
177	Multifunctional micro-/nanoscaled structures based on polyaniline: an overview of modern emerging devices. 2020, 16, 100249	23

176	Hierarchical Fe <sub>2</sub> O <sub>3</sub> microcubes supported on Ni foam as non-enzymatic glucose sensor. <b>2020</b> , 512, 145710		17
175	Novel Nanomaterials for Biosensor Development. <b>2020</b> , 45-72		4
174	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. <b>2020</b> , 92, 2452-2459		75
173	An ON/OFF Aptasensor for Detection of AFB <sub>1</sub> Based on pH-sensitive Polymer and GO Composite. <b>2020</b> , 167, 027508		6
172	Homotypic targeting upconversion nano-reactor for cascade cancer starvation and deep-tissue phototherapy. <b>2020</b> , 235, 119765		17
171	Novel Graphene/InO Nanocubes Preparation and Selective Electrochemical Detection for L-Lysine of Chi. <b>2020</b> , 13,		1
170	Methods for design and fabrication of nanosensors and their electrochemical applications on pharmaceutical compounds. <b>2020</b> , 31-61		
169	The influence of lateral flake size in graphene/graphite paste electrodes: an electroanalytical investigation. <b>2020</b> , 12, 2133-2142		6
168	Effects of the Hydrophobicity of Key Residues on the Characteristics and Stability of Glucose Oxidase on a Graphene Surface. <b>2020</b> , 6, 1899-1908		5
167	Constructing a TiO/PDA core/shell nanorod array electrode as a highly sensitive and stable photoelectrochemical glucose biosensor.. <b>2020</b> , 10, 10017-10022		9
166	Metal free electrochemical glucose biosensor based on N-doped porous carbon material. <i>Electrochimica Acta</i> , <b>2021</b> , 367, 137434	6.7	12
165	A graphene-laminated electrode with high glucose oxidase loading for highly-sensitive glucose detection. <b>2021</b> , 66, 57-63		8
164	Electrochemical multi-analyte point-of-care perspiration sensors using on-chip three-dimensional graphene electrodes. <b>2021</b> , 413, 763-777		19
163	ProTOT: Synthesis of the missing member of the 3,4-chalcogen substituted bridged thiophenes and its utilization in donor-acceptor polymers. <b>2021</b> , 212, 123076		4
162	Hydrogel-Based Sensor Networks: Compositions, Properties, and Applications-A Review.. <b>2021</b> , 4, 140-162		32
161	Biosensing Applications of Polyaniline (PANI)-Based Nanocomposites: A Review. <b>2021</b> , 61, 553-597		18
160	Immobilization of CoII-(N,N?-bis(salicylidene)-2-aminobenzylamine) on Poly(pyrrole-co-o-anisidine)/Chitosan Composite Films: Application to Electrocatalytic Oxidation of Catechol. <i>Electroanalysis</i> , <b>2021</b> , 33, 755-765	3	1
159	'Urease immobilized single-kit' for sensing of thiourea-glucose pair employing fluorescence 'Turn off - Turn on' and as an efficient sorbent for selective sample cleanup of thiourea. <b>2021</b> , 1141, 180-193		0

158	Sensing nanomaterials of wearable glucose sensors. <b>2021</b> , 32, 221-228	14
157	Advanced Carbon Materials: Base of 21st Century Scientific Innovations in Chemical, Polymer, Sensing and Energy Engineering.	1
156	Ternary alkali metal chalcogenide engineered reduced graphene oxide (rGO) as a new class of composite (NaFeS <sub>2</sub> -rGO) and its electrochemical performance. <b>2021</b> , 2, 100125	2
155	Nano- and Microelectrochemical Biosensors for Determining Blood Glucose. <b>2021</b> , 265-284	0
154	Basic concepts and processing of nanostructures materials. <b>2021</b> , 1-32	0
153	Graphene, an Interesting Nanocarbon Allotrope for Biosensing Applications: Advances, Insights, and Prospects. <b>2021</b> , 12, 1179597220983821	2
152	Graphene-based nanocomposites for biomedical engineering application. <b>2021</b> , 197-224	
151	Graphene-based nanocomposite for hydrogen storage application. <b>2021</b> , 57-78	3
150	A graphene-modified Co-BDC metal-organic frameworks (Co-MOF) for electrochemical non-enzymatic glucose sensing. <b>2021</b> , 1045, 012010	1
149	Advances for the Development of In Vitro Immunosensors for Multiple Sclerosis Diagnosis. <b>2021</b> , 15, 205-215	2
148	Bird nest-like zinc oxide nanostructures for sensitive electrochemical glucose biosensor. <b>2021</b> ,	5
147	Antifouling Strategies for Electrochemical Biosensing: Mechanisms and Performance toward Point of Care Based Diagnostic Applications. <b>2021</b> , 6, 1482-1507	28
146	Vitamin B12 Plus Graphene Based Bio-Electrocatalyst for Electroreduction of Halocarbons in 1-Butyl-3-Methylimidazolium Tetrafluoroborate: A Special Use of the Synergism between Graphene, Ionic Liquid and Vitamin B12. <i>Russian Journal of Electrochemistry</i> , <b>2021</b> , 57, 214-227	1.2
145	Amino Acid-Based Imidazole Ionic Liquid: A Novel Soft Matrix for Electrochemical Biosensing Applications. <b>2021</b> , 9, 4157-4166	3
144	Optical sensors for continuous glucose monitoring. <b>2021</b> , 3, 022004	17
143	Recent advances in graphene based electrochemical glucose sensor. <b>2021</b> , 26, 100750	6
142	A sensitive electrochemical DNA sensor for detecting <i>Helicobacter pylori</i> based on accordion-like TiCTx: a simple strategy. <b>2021</b> , 413, 4353-4362	6
141	Microplasma synthesis of Ni(OH) <sub>2</sub> nanoflake array on carbon cloth as an efficient nonenzymatic sensor for glucose. <b>2021</b> , 27, 2739-2745	0

140	A step towards glucose control with a novel nanomagnetic-insulin for diabetes care. <b>2021</b> , 601, 120587	0
139	pM Level and Large Dynamic Range Glucose Detection Based on a Sandwich Type Plasmonic Fiber Sensor. <b>2021</b> , 39, 3882-3889	5
138	Dark-field microscopic real-time monitoring the growth of Au on CuO nanocubes for ultra-sensitive glucose detection. <b>2021</b> , 1162, 338503	5
137	Fabrication of rGO/NiS/AuNCs ternary nanocomposite modified electrode for electrochemical sensing of Cr(VI) at ultra-trace level. <b>2021</b> , 24, 101096	1
136	Decorated graphene oxide flakes with integrated complex of 8-hydroxyquinoline/NiO toward accurate detection of glucose at physiological conditions. <b>2021</b> , 893, 115303	6
135	Role of Aryl Amphiphile Hydrophobe Size on the Concentration and Stability of Graphene Nanoplatelet Dispersions. <b>2021</b> , 6, 20068-20075	
134	Conductive chitosan-graft-polyaniline copolymer: synthesis and characterization. 1	0
133	An early detection of prostate cancer drug in water to prevent loss of biodiversity. <b>2021</b> , 151, 51-62	1
132	Immobilization of glucose oxidase on plasma-treated polyethylene for non-invasive glucose detection. <b>2021</b> , 895, 115509	3
131	Optimization, in-vitro release and in-vivo evaluation of bismuth-hyaluronic acid-melittin-chitosan modified with oleic acid nanoparticles computed imaging-guided radiotherapy of cancer tumor in eye cells. <b>2021</b> , 270, 115197	3
130	Laser Scribing Fabrication of Graphitic Carbon Biosensors for Label-Free Detection of Interleukin-6. <b>2021</b> , 11,	1
129	MoS <sub>2</sub> /Chitosan/GOx-Gelatin modified graphite surface: Preparation, characterization and its use for glucose determination. <b>2021</b> , 270, 115215	5
128	Recent Advances in Preparation and Applications of 3D Transition Metal Oxides Semiconductor Photonic Crystal. <b>2021</b> , 2, 2000191	0
127	Graphene and graphene oxide for bio-sensing: General properties and the effects of graphene ripples. <b>2021</b> , 131, 62-79	21
126	Flexible copper-biopolymer nanocomposite sensors for trace level lead detection in water. <b>2021</b> , 344, 130263	8
125	Continuous capillary-flow sensing of glucose and lactate in sweat with an electrochemical sensor based on functionalized graphene oxide. <b>2021</b> , 344, 130253	12
124	Design of a unique ON/OFF switch electrochemical aptasensor driven by the pH for the detection of Aflatoxin B1 in acid solutions based on titanium carbide/ carboxylated graphene oxide-poly(4-vinyl pyridine)/Aptamer composite. <i>Microchemical Journal</i> , <b>2021</b> , 169, 106548	4.8 4
123	Electrochemical biosensors based on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene: future perspectives for on-site analysis. <b>2021</b> , 30, 100782	15



122	Methods for design and fabrication of nanosensors. <b>2021</b> , 3-18	1
121	Internet of Things for Water Sustainability. <b>2020</b> , 113-145	14
120	Carbon Nanomaterials for Electrochemical and Electrochemiluminescent Medical Sensors. <b>2015</b> , 133-152	1
119	Bio-Inspired Engineering of 3D Carbon Nanostructures. <b>2016</b> , 365-420	1
118	CNT Applications in Microelectronics, Nanoelectronics, and Nanobioelectronics <b>2018</b> , 65-72	1
117	CNT Applications in Displays and Transparent, Conductive Films/Substrates. <b>2018</b> , 73-75	1
116	Graphene Applications in Electronics, Electrical Conductors, and Related Uses. <b>2018</b> , 141-146	3
115	Characterization Methods. <b>2018</b> , 403-488	2
114	Microwave- and Conductivity-Based Technologies. <b>2018</b> , 655-669	1
113	CNT Applications in Sensors and Actuators. <b>2018</b> , 53-60	2
112	Effects of the surface chemistry and structure of carbon nanotubes on the coating of glucose oxidase and electrochemical biosensors performance. <b>2017</b> , 7, 26867-26878	27
111	Development and clinical trial of a smartphone-based colorimetric detection system for self-monitoring of blood glucose. <b>2020</b> , 11, 2166-2177	11
110	A Novel Electrochemical Sensor Based on Electropolymerized Ion Imprinted PoPD/ERGO Composite for Trace Cd(II) Determination in Water. <b>2020</b> , 20,	11
109	Fabrication of Graphene Supercapacitors for Flexible Energy Storage. <b>2017</b> , 27, 248-254	3
108	Formation of Magnetic Graphene Nanosheets for Rapid Enrichment and Separation of Methyl Orange from Water. <b>2014</b> , 51, 570-574	2
107	Amperometric Immunosensor for Myeloperoxidase in Human Serum Based on a Multi-wall Carbon Nanotubes-Ionic Liquid-Cerium Dioxide Film-modified Electrode. <b>2010</b> , 31, 3259-3264	15
106	Detection of Trace Copper Metal at Carbon Nanotube Based Electrodes Using Squarewave Anodic Stripping Voltammetry. <b>2013</b> , 34, 801-809	3
105	Application of Functionalized Graphene Oxide Based Biosensors for Health Monitoring: Simple Graphene Derivatives to 3D Printed Platforms. <b>2021</b> , 11,	2

- 104 Analysis of Trace Copper Metal at The Electrode Consisting of Carbon Nanotube using Stripping Voltammetry. **2012**, 50, 933-937 2
- 103 Surface Characterization of Graphene. **2013**, 73-90
- 102 Chemically derived graphene. **2014**, 223-250 1
- 101 Hierarchical Materials Architectures for Enzymatic Fuel Cells. 181-207
- 100 Chapter Poly(Ionic Liquid)s and Nanoobjects. **2015**, 323-353
- 99 Electrochemical Sensing and Biosensing Platforms Using Graphene and Graphene-Based Nanocomposites. 325-360
- 98 Electrochemical Sensors Based on Nanostructured Materials. **2016**, 1143-1160
- 97 Graphene-Based Electrochemical Platform for Biosensor Applications. 187-214
- 96 Nanomaterials: Conducting Polymers and Sensing. 5311-5335
- 95 References. **2017**, 105-121
- 94 Nanomaterials: Conducting Polymers and Sensing. **2017**, 1035-1059
- 93 Basic Electrochemistry of CPs. **2018**, 283-309
- 92 Miscellaneous CNT Applications. **2018**, 89-90
- 91 CNT Applications in Specialized Materials. **2018**, 45-48
- 90 Structural Aspects and Morphology of CPs. **2018**, 389-402
- 89 Electronic Structure and Conduction Models of Graphene. **2018**, 101-106
- 88 Electrochromics. **2018**, 601-624
- 87 Classes of CPs: Part 1. **2018**, 489-507

- 86 Electro-Optic and Optical Devices. **2018**, 671-684 1
- 85 Conduction Models and Electronic Structure of CNTs. **2018**, 11-16
- 84 Miscellaneous Applications. **2018**, 695-715
- 83 Chapter 5: Carbon Nanomaterials in Electrochemical Detection. **2018**, 150-199 1
- 82 CNT Applications in the Environment and in Materials Used in Separation Science. **2018**, 81-87
- 81 Graphene Applications in Displays and Transparent, Conductive Films/Substrates. **2018**, 147-148
- 80 Classes of CPs: Part 2. **2018**, 509-545
- 79 Introducing Conducting Polymers (CPs). **2018**, 159-174
- 78 Syntheses and Processing of CPs. **2018**, 311-388
- 77 Physical, Mechanical, and Thermal Properties of CNTs. **2018**, 33-36
- 76 CNT Applications in Electrical Conductors, Quantum Nanowires, and Potential Superconductors. **2018**, 77-79
- 75 Toxicology of CNTs. **2018**, 37-39
- 74 Synthesis, Purification, and Chemical Modification of CNTs. **2018**, 17-31
- 73 Introducing Graphene. **2018**, 93-99
- 72 Sensors. **2018**, 549-574
- 71 Conduction Models and Electronic Structure of CPs. **2018**, 175-249 1
- 70 Brief, General Overview of Applications. **2018**, 123-124
- 69 Electrochemomechanical, Chemomechanical, and Related Devices. **2018**, 685-693

68 Displays, Including Light-Emitting Diodes (LEDs) and Conductive Films. **2018**, 625-654

67 Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>) Detection Using Graphene Coated Microfiber. *Indonesian Applied Physics Letters*, **2020**, 1, 23 0

66 The effects of solvent casting temperature and physical aging on polyhydroxybutyrate-graphene nanoplatelet composites. *Polymer Composites*, **2021**, 42, 1451-1461 3 1

65 On the graphene and its derivative based polymer nanocomposites for glucose sensing. *Materials Letters*, **2022**, 307, 130971 3.3 7

64 Nanomaterial for Biosensors. **2020**, 35-61

63 Functionalized nanomaterials for chemical sensor applications. **2020**, 435-477 1

62 Immobilization of Molecular Assemblies on 2D Nanomaterials for Electrochemical Biosensing Applications. *Gels Horizons: From Science To Smart Materials*, **2021**, 435-474 2

61 Graphene: An Insight Into Electrochemical Sensing Technology. **2020**, 169-233

60 The application of graphene-based biomaterials in biomedicine. *American Journal of Translational Research (discontinued)*, **2019**, 11, 3246-3260 3 14

59 Graphene Synthesis and Its Recent Advances in Applications: A Review. *Journal of Carbon Research*, **2021**, 7, 76 3.3 2

58 Preparation and characterization of graphene nanosheet doped with silver nanoparticles. *Journal of Physics: Conference Series*, **2021**, 2063, 012012 0.3 0

57 Air-permeable electrode for highly sensitive and noninvasive glucose monitoring enabled by graphene fiber fabrics. *Nano Energy*, **2022**, 93, 106904 17.1 5

56 Surface Condition and Conductance of Graphene in Redox Process. *Applied Science and Convergence Technology*, **2021**, 30, 183-185 0.8

55 Bismuth-Chitosan Nanocomposite Sensors for Trace Level Detection of Ni(II) and Co(II) in Water Samples. *Water (Switzerland)*, **2022**, 14, 302 3

54 Smartphone-based electrochemical on-site quantitative detection device for nonenzyme lactate detection. *Electroanalysis*, 3 1

53 Applications of Microbes in Electric Generation. *Environmental and Microbial Biotechnology*, **2022**, 191-2184

52 Potentialities of graphene and its allied derivatives to combat against SARS-CoV-2 infection.. *Materials Today Advances*, **2022**, 13, 100208 7.4 4

51 Novel eco-friendly water-based conductive ink for the preparation of disposable screen-printed electrodes for sensing and biosensing applications. *Electrochimica Acta*, **2022**, 409, 139968 6.7 2

50	Portable glucose biosensor based on polynorepinephrine@magnetite nanomaterial integrated with a smartphone analyzer for point-of-care application.. <i>Bioelectrochemistry</i> , <b>2022</b> , 145, 108071	5.6	4
49	Bioactive Chitosan-Based Organometallic Scaffolds for Tissue Engineering and Regeneration.. <i>Topics in Current Chemistry</i> , <b>2022</b> , 380, 13	7.2	1
48	Development of Nanomaterials Based on Graphene for Biomedical Purposes. <i>Nanotechnology in the Life Sciences</i> , <b>2022</b> , 161-174	1.1	
47	Carbon nanomaterials: Application as sensors for diagnostics. <b>2022</b> , 211-248		
46	Graphene Polymer Composites for Biomedical Applications. <b>2022</b> , 435-470		
45	Quantum dots enabled point-of-care diagnostics: A new dimension to the nanodiagnosis. <b>2022</b> , 43-52		0
44	Role of functionalized metal oxide-carbon nanocomposites in biomolecule detection. <b>2022</b> , 495-527		0
43	Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and Applications in Environmental and Human Health Monitoring.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	4
42	Comparison and evaluation of the performance of graphene-based biosensors. <i>Carbon Letters</i> , 1	2.3	1
41	A New Surface Based on Graphene Modified with Nanoparticles and Nafion for the Detection of Glucose. <i>Russian Journal of Electrochemistry</i> , <b>2021</b> , 57, 1186-1195	1.2	0
40	A Nover Electrochemical Sensor Based on Pom/Mos2 Electrospun Nanofibers Composite for the Simultaneous Detection of Ractopamine and Clenbuterol. <i>SSRN Electronic Journal</i> ,	1	
39	Development of an All-Carbon Electrochemical Biosensor on a Flexible Substrate for the Sensitive Detection of Glucose. <b>2022</b> , 16,		1
38	Construct FeOOH-Reduced Graphene Oxide Aerogel as a Carrier for Glucose Oxidase Electrode. <i>Membranes</i> , <b>2022</b> , 12, 447	3.8	
37	Carbon nanotubes/polyethylenimine/glucose oxidase as a non-invasive electrochemical biosensor performs high sensitivity for detecting glucose in saliva. <i>Microchemical Journal</i> , <b>2022</b> , 180, 107547	4.8	5
36	Graphene-based polymer nanocomposites in biomedical applications. <b>2022</b> , 199-245		1
35	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 19, 2657-2694	5.5	3
34	A novel electrochemical biosensor as an efficient electronic device for impedimetric and amperometric quantification of the pneumococcus. <i>Sensing and Bio-Sensing Research</i> , <b>2022</b> , 37, 100506	3.3	
33	AgPt/MoS2 hybrid as electrochemical sensor for detecting H2O2 release from living cells. <i>New Journal of Chemistry</i> ,	3.6	0

32	Why is graphene an extraordinary material? A review based on a decade of research. <i>Frontiers of Materials Science</i> , <b>2022</b> , 16,	2.5	0
31	Chitosan biopolymer coated graphite electrode as a robust electrochemical platform for the detection of the insecticide flubendiamide. <i>Journal of Food Composition and Analysis</i> , <b>2022</b> , 114, 104749 <sup>4-1</sup>		0
30	Electrochemical Methods for Water Purification, Ion Separations, and Energy Conversion. <b>2022</b> , 122, 13547-13635		8
29	Simple immunosensor for ultrasensitive electrochemical determination of biomarker of the bone metabolism in human serum. 10,		0
28	Research on Direct Electron Transfer of Native Glucose Oxidase at PEDOT:PSS Hydrogels Modified Electrode. <b>2022</b> , 116738		1
27	Graphene oxide-nanocomposite-based electrochemical sensors for the detection of organophosphate pesticides. <b>2023</b> , 635-658		0
26	Organic/Inorganic Nanohybrid-Based Electrochemical Biosensors. <b>2022</b> , 151-173		0
25	A highly sensitive fluorescent sensor for ammonia detection based on aggregation-induced emission luminogen-doped liquid crystals.		0
24	Chitosan-Based Sensors. <b>2022</b> , 249-289		0
23	New Frontiers of Graphene Based Nanohybrids for Energy Harvesting Applications. <b>2022</b> , 78-103		0
22	A Reagentless Electrochemical DNA Sensor Based on a Self-Powered DNA Machine.		0
21	Two-dimensional nanostructures based on 2D materials in personalized medicine. <b>2022</b> ,		1
20	Co-operation of electrochemistry and chemometrics to develop a novel electrochemical aptasensor based on generation of first- and second-order data for selective and sensitive determination of the prostate specific antigen biomarker. <b>2022</b> , 183, 108026		0
19	Application of Different Nanomaterials in Biomedical Field. 14, 57-64		0
18	Graphene and Carbon Nanotubes (CNTs)-Based Biosensor for Life Sciences Applications. <b>2023</b> , 61-79		0
17	Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. 1-69		1
16	Electrochemical Determination of Morin in Natural Food Using a Chitosan/Graphene Glassy Carbon Modified Electrode. <b>2022</b> , 22, 7780		0
15	Graphene and Its Derivatives: Synthesis and Application in the Electrochemical Detection of Analytes in Sweat. <b>2022</b> , 12, 910		5

- 14 SnO<sub>2</sub>QDs Deposited on GO/PPy-Modified Glassy Carbon Electrode for Efficient Electrochemical Hydrogen Peroxide Sensor. **2022**, 12, 983 ○
- 13 Innovations in the synthesis of graphene nanostructures for bio and gas sensors. **2023**, 145, 213234 2
- 12 Rational and low-cost preparation of MoPd nanoalloys interconnected with porous graphite electrode as highly efficient electrocatalyst for glucose oxidation. ○
- 11 Highly Sensitive and Selective Graphene Nanoribbon Based Enzymatic Glucose Screen-Printed Electrochemical Sensor. **2022**, 22, 9590 ○
- 10 Immobilization of Glucose Oxidase on Glutathione Capped CdTe Quantum Dots for Bioenergy Generation. **2022**, 12, 1659 ○
- 9 Nanobiosensor: Advancement in Disease Diagnostic. **2022**, 257-279 ○
- 8 Flexible Textile-Based Sweat Sensors for Wearable Applications. **2023**, 13, 127 ○
- 7 A novel electrochemical sensor based on MoS<sub>2</sub> electrospun nanofibers and polyoxometalate composite for the simultaneous detection of ractopamine and clenbuterol. **2023**, 108434 1
- 6 A Double-Needle Gold-Silver Electrodes Continuous Glucose Monitoring Device. **2023**, 100752 ○
- 5 Synthesis and Functionalization of Graphene Materials for Biomedical Applications: Recent Advances, Challenges, and Perspectives. 2205292 ○
- 4 2D materials for flexible electronics. **2023**, 169-206 ○
- 3 Graphene materials for fabrication of robots. **2023**, 302, 127781 ○
- 2 Polymer and biopolymer based nanocomposites for glucose sensing. 1-32 ○
- 1 Recent advances in MXenes-based glucose biosensors. **2023**, 108241 ○