

CITATION REPORT

List of articles citing

Recent advances in graphene-based biosensors

DOI: 10.1016/j.bios.2011.05.039

Biosensors and Bioelectronics, 2011, 26, 4637-48.

Source: <https://exaly.com/paper-pdf/51186615/citation-report.pdf>

Version: 2024-04-09

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

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

#	Paper	IF	Citations
1103	Advances in Graphene-Based Sensors and Devices. 2012 , 04,		3
1102	Versatile Graphene-Based Nano-Bio Probe Design and Its Application. 2012 , 27-38		
1101	Electrochemical biosensors for medical applications. 2012 , 3-40		15
1100	Nano-Bio Probe Design and Its Application for Biochemical Analysis. 2012 ,		1
1099	Electrospun Nylon-Graphene Nanocomposites Synthesis and Microstructure. 2012 , 1453, 7		4
1098	Biological interactions and safety of graphene materials. 2012 , 37, 1307-1313		30
1097	Recent developments on graphene and graphene oxide based solid state gas sensors. 2012 , 173, 1-21		518
1096	3D graphene foam as a monolithic and macroporous carbon electrode for electrochemical sensing. 2012 , 4, 3129-33		264
1095	Streptavidin as CNTs and DNA Linker for the Specific Electronic and Optical Detection of DNA Hybridization. 2012 , 116, 22579-22586		14
1094	Covalent Functionalization of Graphene with Polysaccharides. 2012 , 51, 310-317		71
1093	Ultrasensitive electrochemiluminescence detection of mercury ions based on DNA oligonucleotides and cysteamine modified gold nanoparticles probes. 2012 , 171-172, 860-865		18
1092	A novel electrochemiluminescence sensor based on Ru(bpy) ₃ ²⁺ immobilized by graphene on glassy carbon electrode surface via in situ wet-chemical reaction. 2012 , 171-172, 1159-1165		26
1091	Electroanalytical studies on green leaf volatiles for potential sensor development. 2012 , 137, 3138-45		11
1090	Applications and Nanotoxicity of Carbon Nanotubes and Graphene in Biomedicine. 2012 , 2012, 1-19		103
1089	Electrochemical determination of NADH based on MPECVD carbon nanosheets. 2012 , 99, 487-91		16
1088	Graphene oxide: preparation, functionalization, and electrochemical applications. 2012 , 112, 6027-53		2515
1087	Graphene-based materials for catalysis. 2012 , 2, 54-75		791

1086	Adsorption of DNA onto gold nanoparticles and graphene oxide: surface science and applications. 2012 , 14, 10485-96		286
1085	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. 2012 , 12, 5996-6022		368
1084	Carbon nanotubes and graphene in analytical sciences. 2012 , 179, 1-16		178
1083	Ultrasensitive flexible graphene based field-effect transistor (FET)-type bioelectronic nose. 2012 , 12, 5082-90		274
1082	A roadmap for graphene. 2012 , 490, 192-200		6640
1081	Zeolite A functionalized with copper nanoparticles and graphene oxide for simultaneous electrochemical determination of dopamine and ascorbic acid. 2012 , 739, 25-30		62
1080	Flexible glucose sensor using CVD-grown graphene-based field effect transistor. <i>Biosensors and Bioelectronics</i> , 2012 , 37, 82-7	11.8	213
1079	Graphene nanomesh as highly sensitive chemiresistor gas sensor. 2012 , 84, 8171-8		196
1078	Application of metalloporphyrin grafted-graphene oxide for the construction of a novel salicylate-selective electrode. 2012 , 16, 1140-1147		7
1077	Oxidative stress-mediated antibacterial activity of graphene oxide and reduced graphene oxide in <i>Pseudomonas aeruginosa</i> . 2012 , 7, 5901-14		499
1076	Ionic liquid-stabilized graphene and its use in immobilizing a metal nanocatalyst. 2012 , 2, 8189		29
1075	Encyclopedia of Nanotechnology. 2012 , 194-201		
1074	Graphene for radio frequency electronics. 2012 , 15, 328-338		88
1073	A glucose biosensor based on TiO ₂ -Graphene composite. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 184-8	11.8	165
1072	MgFe-layered double hydroxide modified electrodes for direct electron transfer of heme proteins. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 239-44	11.8	30
1071	Graphene electrochemical responses sense surroundings. 2012 , 81, 49-57		23
1070	Bionanotechnology approach for FAD-dependent enzymes with nanomaterials sensor. 2012 , 19, 465-71		
1069	Sonoelectrochemical synthesized RGO/PbTe composite for novel electrochemical biosensor. 2012 , 173, 239-243		7

1068 Encyclopedia of Nanotechnology. **2012**, 173-173

1067 Lateral dimension-dependent antibacterial activity of graphene oxide sheets. **2012**, 28, 12364-72 409

1066 Biological interactions of graphene-family nanomaterials: an interdisciplinary review. **2012**, 25, 15-34 953

1065 Rolling up graphene oxide sheets into micro/nanoscrolls by nanoparticle aggregation. **2012**, 22, 17441 63

1064 Chemistry, physics and biology of graphene-based nanomaterials: new horizons for sensing, imaging and medicine. **2012**, 22, 14313 105

1063 Functionalized graphene oxide in enzyme engineering: a selective modulator for enzyme activity and thermostability. **2012**, 6, 4864-75 173

1062 Graphene: a versatile nanoplatform for biomedical applications. **2012**, 4, 3833-42 421

1061 Decorating graphene sheets with gold nanoparticles for the detection of sequence-specific DNA. **2012**, 71, 239-245 63

1060 Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. *Biosensors and Bioelectronics*, **2012**, 34, 70-6 11.8 317

1059 Determination of glucose and uric acid with bienzyme colorimetry on microfluidic paper-based analysis devices. *Biosensors and Bioelectronics*, **2012**, 35, 363-368 11.8 171

1058 Myoglobin within graphene oxide sheets and Nafion composite films as highly sensitive biosensor. **2012**, 164, 82-89 33

1057 Use of nanohybrid materials as electrochemical transducers for mercury sensors. **2012**, 165, 143-150 56

1056 Chemical functionalization of graphene and its applications. **2012**, 57, 1061-1105 1351

1055 Voltammetric Detection of a Specific DNA Sequence of Avian Influenza Virus H5N1 Using HS-ssDNA Probe Deposited onto Gold Electrode. **2012**, 24, 439-446 30

1054 Preparation, characterization, and electrochemical performances of graphene/Ni(OH)₂ hybrid nanomaterials. **2013**, 15, 1 6

1053 Physical Properties of Graphene Nanoribbons: Insights from First-Principles Studies. **2013**, 51-77 1

1052 Direct electrochemistry and electrocatalysis of glucose oxidase on three-dimensional interpenetrating, porous graphene modified electrode. **2013**, 98, 48-53 54

1051 Real-time electrochemical monitoring of adenosine triphosphate in the picomolar to micromolar range using graphene-modified electrodes. **2013**, 85, 8158-65 215

1050	Highly sensitive reduced graphene oxide impedance sensor harnessing π -stacking interaction mediated direct deposition of protein probes. 2013 , 5, 3591-8	35
1049	Self-assembly synthesis of a hierarchical structure using hollow nitrogen-doped carbon spheres as spacers to separate the reduced graphene oxide for simultaneous electrochemical determination of ascorbic acid, dopamine and uric acid. 2013 , 5, 3591	29
1048	L-Lactic acid biosensor based on multi-layered graphene. 2013 , 43, 985-994	11
1047	Effect of the thickness of Bi ₂ Se ₃ sheets on the morphologies of Bi ₂ Se ₃ /ZnS nanocomposites and improved photoresponsive characteristic. 2013 , 24, 4197-4203	4
1046	Graphene-based gas sensors. 2013 , 1, 10078	778
1045	Rapid electrochemical detection of ferulic acid based on a graphene modified glass carbon electrode. 2013 , 5, 3834	12
1044	Internalization and cytotoxicity of graphene oxide and carboxyl graphene nanoplatelets in the human hepatocellular carcinoma cell line Hep G2. 2013 , 10, 27	272
1043	Novel determination of hydrogen peroxide by electrochemically reduced graphene oxide grafted with aminothiophenolPd nanoparticles. 2013 , 178, 450-457	67
1042	Novel cysteic acid/reduced graphene oxide composite film modified electrode for the selective detection of trace silver ions in natural waters. 2013 , 5, 5812	15
1041	The application of thionine-graphene nanocomposite in chiral sensing for Tryptophan enantiomers. 2013 , 94, 87-93	38
1040	Surface Modification of Graphene. 2013 , 35-86	2
1039	Highly sensitive electrochemical detection of methyl salicylate using electroactive gold nanoparticles. 2013 , 138, 6623-31	22
1038	Simultaneous determination of dopamine and uric acid using layer-by-layer graphene and chitosan assembled multilayer films. 2013 , 117, 359-65	41
1037	Curvature effect in the longitudinal unzipping carbon nanotubes. 2013 , 17, 1189-1200	7
1036	High-performance flexible graphene aptasensor for mercury detection in mussels. 2013 , 7, 10563-71	160
1035	Controlled functionalization of graphene oxide with sodium azide. 2013 , 5, 12136-9	45
1034	Preparation of sulfonated poly(ether-ether-ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. 2013 , 48, 1724-1735	46
1033	Toxicity analysis of graphene nanoflakes by cell-based electrochemical sensing using an electrode modified with nanocomposite of graphene and Nafion. 2013 , 188, 454-461	20

1032	Octaoctyl-substituted lutetium bisphthalocyanine for NADH biosensing. 2013 , 117, 15033-40		9
1031	An overview of the engineered graphene nanostructures and nanocomposites. 2013 , 3, 22790		167
1030	(4-Ferrocenylethyne) phenylamine on Graphene as the Signal Amplificator to Determinate Dopamine and Acetaminophen Simultaneously. 2013 , 31, 845-854		11
1029	Sensors and biosensors for analysis of bisphenol-A. 2013 , 52, 248-260		147
1028	Fabrication of capacitive type biosensor based on CVD grown graphene. 2013 ,		
1027	Graphene microsheets enter cells through spontaneous membrane penetration at edge asperities and corner sites. 2013 , 110, 12295-300		564
1026	Multifunctional graphene magnetic nanosheet decorated with chitosan for highly sensitive detection of pathogenic bacteria. 2013 , 1, 3950-3961		138
1025	DNA-mediated homogeneous binding assays for nucleic acids and proteins. 2013 , 113, 2812-41		328
1024	Antibacterial activity of dithiothreitol reduced graphene oxide. 2013 , 19, 1280-1288		102
1023	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> , 2013 , 41, 498-504	11.8	258
1022	A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 70-5	11.8	285
1021	Microbial reduction of graphene oxide by Escherichia coli: a green chemistry approach. 2013 , 102, 772-7		150
1020	Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: synthesis and applications. 2013 , 42, 794-830		957
1019	Dimension-tailored functional graphene structures for energy conversion and storage. 2013 , 5, 3112-26		86
1018	Graphene-Induced Adsorptive and Optical Artifacts During In Vitro Toxicology Assays. 2013 , 9, 1921-1927		37
1017	Electrodeposited graphene nano-stacks for biosensor applications. Surface groups as redox mediators for laccase. 2013 , 98, 75-81		21
1016	Laccase-Prussian blue film-graphene doped carbon paste modified electrode for carbamate pesticides quantification. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 292-9	11.8	46
1015	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. 2013 , 5, 3043-51		136

1014	Graphene: promises, facts, opportunities, and challenges in nanomedicine. 2013 , 113, 3407-24		563
1013	pH sensing characteristics and biosensing application of solution-gated reduced graphene oxide field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 70-6	11.8	79
1012	New horizons for diagnostics and therapeutic applications of graphene and graphene oxide. 2013 , 25, 168-86		494
1011	Graphene paste electrode: Electrochemical behavior and analytical applications for the quantification of NADH. 2013 , 176, 921-926		44
1010	Functional Polymer Brushes on Hydrogenated Graphene. 2013 , 25, 466-470		32
1009	Enhanced Raman Scattering of Graphene using Arrays of Split Ring Resonators. 2013 , 1, 151-157		28
1008	One-pot ultrasonic-electrodeposition of copper/graphene nanoflowers in Ethaline for glucose sensing. 2013 , 5, 767-772		22
1007	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. 2013 , 6, 1362		324
1006	Synthesis of hydroxyapatite-reduced graphite oxide nanocomposites for biomedical applications: oriented nucleation and epitaxial growth of hydroxyapatite. 2013 , 1, 1826-1834		141
1005	Nanostructured Sensors for Detection of Heavy Metals: A Review. 2013 , 1, 713-723		372
1004	A continuum model for the static pull-in behavior of graphene nanoribbon electrostatic actuators with interlayer shear and surface energy effects. 2013 , 113, 153512		38
1003	Recent advancements of graphene in biomedicine. 2013 , 1, 2542-2567		153
1002	Graphene-based materials: fabrication, characterization and application for the decontamination of wastewater and wastegas and hydrogen storage/generation. 2013 , 195-196, 19-40		265
1001	Graphene-Based Optical and Electrochemical Biosensors: A Review. 2013 , 46, 1-17		60
1000	Graphene oxide-modified electrodes for sensitive determination of diethylstilbestrol. 2013 , 24, 115502		24
999	2D ultrathin nanosheets of Co-Al layered double hydroxides prepared in l-asparagine solution: enhanced peroxidase-like activity and colorimetric detection of glucose. 2013 , 1, 2268-2274		104
998	Polypyrrole-poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nanocomposite films for label-free electrochemical DNA sensing. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 133-40	11.8	101
997	Molecularly imprinted electrochemical sensor based on amine group modified graphene covalently linked electrode for 4-nonylphenol detection. 2013 , 115, 222-7		28

996	Immobilization techniques in the fabrication of nanomaterial-based electrochemical biosensors: a review. 2013 , 13, 4811-40		315
995	Micropatterned reduced graphene oxide based field-effect transistor for real-time virus detection. 2013 , 186, 252-257		61
994	Molinate quantification in environmental water by a glutathione-S-transferase based biosensor. 2013 , 106, 249-54		21
993	Direct Electrochemistry of Hemoglobin on Vertically Aligned Carbon Hybrid TiO ₂ Nanotubes and Its Highly Sensitive Biosensor Performance. 2013 , 31, 215-220		9
992	SYNTHETIC GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION ON COPPER FOILS. 2013 , 27, 1341002		26
991	Electrochemical biosensing platform based on carboxymethyl cellulose functionalized reduced graphene oxide and hemoglobin hybrid nanocomposite film. 2013 , 182, 288-293		35
990	Template-directed hierarchical self-assembly of graphene based hybrid structure for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 53-62	11.8	95
989	Direct growth of vertically-oriented graphene for field-effect transistor biosensor. 2013 , 3, 1696		151
988	DFT studies of acrolein molecule adsorption on pristine and Al-doped graphenes. 2013 , 19, 3733-40		20
987	Bioinspired polydopamine as the scaffold for the active AuNPs anchoring and the chemical simultaneously reduced graphene oxide: characterization and the enhanced biosensing application. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 466-71	11.8	42
986	Charge transfer and current fluctuations in single layer graphene transistors modified by self-assembled C ₆₀ adlayers. 2013 , 9, 2420-6		20
985	Bioinspired prospects of graphene: from biosensing to energy. 2013 , 1, 3521-3534		24
984	Highly selective and sensitive glucose sensors based on organic electrochemical transistors with graphene-modified gate electrodes. 2013 , 1, 3820-3829		92
983	Graphene sheet-starch platform based on the groove recognition for the sensitive and highly selective determination of iodide in seafood samples. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 396-401	11.8	12
982	Electrochemical behavior of graphene/Nafion/Azure I/Au nanoparticles composites modified glass carbon electrode and its application as nonenzymatic hydrogen peroxide sensor. 2013 , 90, 550-555		65
981	Exploring the origins of the apparent "electrocatalytic" oxidation of kojic acid at graphene modified electrodes. 2013 , 138, 4436-42		29
980	Sensitive immunosensor for the label-free determination of tumor marker based on carbon nanotubes/mesoporous silica and graphene modified electrode. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 342-7	11.8	62
979	A novel electrochemiluminescence ethanol biosensor based on tris(2,2'-bipyridine) ruthenium (II) and alcohol dehydrogenase immobilized in graphene/bovine serum albumin composite film. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 776-82	11.8	49

978	Stimulus-responsive graphene systems towards actuator applications. 2013 , 6, 3520	115
977	Interaction of Nucleobases and Aromatic Amino Acids with Graphene Oxide and Graphene Flakes. 2013 , 4, 3710-3718	149
976	Nanowire templated semihollow bicontinuous graphene scrolls: designed construction, mechanism, and enhanced energy storage performance. 2013 , 135, 18176-82	168
975	Tuning the activities and structures of enzymes bound to graphene oxide with a protein glue. 2013 , 29, 15643-54	34
974	A New Fluorescence Method for the Determination of Hsa Using Graphite Oxide as Nanoprobe. 2013 , 647, 769-773	
973	Electrochemical Nanosized Biosensors: Perspectives and Future of Biocatalysts. 2013 , S7,	5
972	Effective contact model for geometry-independent conductance calculations in graphene. 2013 , 88,	5
971	Electrochemical Aptasensor Based on ZnO Modified Gold Electrode. 2013 , 25, 1855-1863	5
970	A new and simple resonance Rayleigh scattering method for human serum albumin using graphite oxide as probe. 2013 , 28, 842-6	13
969	FEATURES. 2013 , 17, 28-41	
968	Determination of the network structure of sensor materials prepared by three different sol-gel routes using Fourier transform infrared spectroscopy (FT-IR). 2013 , 67, 441-7	14
967	Green synthesis of graphene and its cytotoxic effects in human breast cancer cells. 2013 , 8, 1015-27	144
966	Graphene Channel Liquid Container Field Effect Transistor as pH Sensor. 2014 , 2014, 1-6	46
965	Resonance of graphene nanoribbons doped with nitrogen and boron: a molecular dynamics study. 2014 , 5, 717-25	5
964	. 2014 ,	2
963	Determination of glutathione in single HepG2 cells by capillary electrophoresis with reduced graphene oxide modified microelectrode. 2014 , 35, 3371-8	23
962	Electron-doping of graphene-based devices by hydrazine. 2014 , 116, 224511	8
961	THE ADSORPTION OF BiIII/Pt NANOCOMPOSITES AT PLATINUM ELECTRODE WITH HIGHLY ENHANCED ELECTROCATALYSIS TOWARD GLUCOSE. 2014 , 21, 1450042	5

960	Chemical and Biosensors Based on Graphene Materials. 2014 , 235-260	
959	Graphene and its Nanocomposites for Gas Sensing Applications. 2014 , 467-500	3
958	Nanomaterial-Based Electrochemical Immunosensors for Clinically Significant Biomarkers. 2014 , 7, 4669-4709	84
957	Recent advances in application of biosensors in tissue engineering. 2014 , 2014, 307519	94
956	A graphene field effect transistor for high temperature sensing applications. 2014 ,	4
955	Adsorption on and Reactivity of Carbon Nanotubes and Graphene. 2014 , 39-183	1
954	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters. 2014 ,	1
953	Use of graphene and gold nanorods as substrates for the detection of pesticides by surface enhanced Raman spectroscopy. 2014 , 62, 10445-51	49
952	Structural defects in epitaxial graphene layers synthesized on C-terminated 4H-SiC (0001) surface—transmission electron microscopy and density functional theory studies. 2014 , 115, 054310	6
951	Electrochemically Reduced Graphene Oxide on Electrochemically Roughened Gold as a Support for Horseradish Peroxidase. 2014 , 118, 29731-29738	15
950	A Graphene Based Sensor for Sensitive Voltammetric Quantification of Cabergoline. 2014 , 161, H314-H320	14
949	Reversible Graphene Functionalization for Electronic Applications: A Review. 2014 , 41-54	3
948	Review of Recent Developments in Sensing Materials. 2014 , 47-101	9
947	Nonlinear absorption and optical damage threshold of carbon-based nanostructured material embedded in a protein. 2014 , 117, 1811-1819	4
946	Enhanced green fluorescent protein-mediated synthesis of biocompatible graphene. 2014 , 12, 41	53
945	Nanomaterials for biosensing applications: a review. 2014 , 2, 63	587
944	Nanosized Materials in Amperometric Sensors. 2014 , 497-527	
943	Graphene nanoplatelets and horseradish peroxidase based biosensor. 2014 , 211, 2795-2800	5

942	Bimetallic PdCu nanoparticle decorated three-dimensional graphene hydrogel for non-enzymatic amperometric glucose sensor. 2014 , 190, 707-714	169
941	Epitaxial graphene immunosensor for human chorionic gonadotropin. 2014 , 190, 723-729	56
940	Sensitive bi-enzymatic biosensor based on polyphenoloxidases-gold nanoparticles-chitosan hybrid film-graphene doped carbon paste electrode for carbamates detection. 2014 , 98, 20-9	61
939	Solution-gated graphene transistors for chemical and biological sensors. 2014 , 3, 313-31	116
938	Lactate biosensor based on a bionanocomposite composed of titanium oxide nanoparticles, photocatalytically reduced graphene, and lactate oxidase. 2014 , 181, 79-87	29
937	Studies of graphene-chitosan interactions and analysis of the bioadsorption of glucose and cholesterol. 2014 , 4, 911-918	16
936	Integrated graphene/nanoparticle hybrids for biological and electronic applications. 2014 , 6, 6245-66	98
935	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. 2014 , 7, 1564	860
934	Effect of graphene oxide on affinity-immobilization of purple membranes on solid supports. 2014 , 116, 482-8	12
933	Graphene's cousin: the present and future of graphane. 2014 , 9, 26	55
932	Advances in nanowire transistors for biological analysis and cellular investigation. 2014 , 139, 1589-608	43
931	Electrochemical determination of luteolin in peanut hulls using graphene and hydroxyapatite nanocomposite modified electrode. 2014 , 194, 397-403	52
930	Memristive biosensors under varying humidity conditions. 2014 , 13, 19-30	22
929	Structures Self-Assembled from Anionic Graphene and Cationic Manganese Porphyrin: Characterization and Application in Artificial Photosynthesis. 2014 , 2014, 2288-2295	20
928	Preparation and characterization of self-assembled layer by layer NiCo ₂ O ₄ /reduced graphene oxide nanocomposite with improved electrocatalytic properties. 2014 , 590, 266-276	89
927	Bioelectrochemical systems with oleylamine-stabilized gold nanostructures and horseradish peroxidase for hydrogen peroxide sensor. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 54-8	11.8 49
926	Graphene: The cutting-edge interaction between chemistry and electrochemistry. 2014 , 56, 13-26	134
925	Trace and ultratrace determination of heavy metal ions by energy-dispersive X-ray fluorescence spectrometry using graphene as solid sorbent in dispersive micro solid-phase extraction. 2014 , 94-95, 7-13	48

924	A novel composite of reduced graphene oxide and molecularly imprinted polymer for electrochemical sensing 4-nitrophenol. 2014 , 130, 504-511		68
923	Label-free detection of C-reactive protein using a carbon nanofiber based biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 112-9	11.8	101
922	Functionalized graphene oxide for the fabrication of paraoxon biosensors. 2014 , 827, 86-94		41
921	Highly selective electrochemical sensor for ascorbic acid based on a novel hybrid graphene-copper phthalocyanine-polyaniline nanocomposites. 2014 , 133, 294-301		98
920	Study on structural, electronic and magnetic properties of Sn atom adsorbed on defective graphene by first-principle calculations. 2014 , 307, 158-164		21
919	Chemical Functionalization of Graphene for Biomedical Applications. 2014 , 95-138		8
918	Transition-metal-ion-mediated polymerization of dopamine: mussel-inspired approach for the facile synthesis of robust transition-metal nanoparticle-graphene hybrids. 2014 , 20, 7776-83		80
917	Scalable production of highly sensitive nanosensors based on graphene functionalized with a designed G protein-coupled receptor. 2014 , 14, 2709-14		82
916	An electrochemiluminescence biosensor for sensitive and selective detection of Hg based on π interaction between nucleotides and ferrocene-graphene nanosheets. 2014 , 2, 3263-3270		21
915	A new osmium-polymer modified screen-printed graphene electrode for fructose detection. 2014 , 195, 287-293		51
914	Graphene synthesis. 2014 , 46, 25-34		147
913	Sandwich beam model for free vibration analysis of bilayer graphene nanoribbons with interlayer shear effect. 2014 , 115, 174303		18
912	Graphene-based nanobiocatalytic systems: recent advances and future prospects. 2014 , 32, 312-20		129
911	Graphene ceramic composite as a new kind of surface-renewable electrode: application to the electroanalysis of ascorbic acid. 2014 , 181, 1879-1885		6
910	Fabrication of integrated field-effect transistors and detecting system based on CVD grown graphene. 2014 , 195, 467-472		19
909	Sensitive HIV-1 detection in a homogeneous solution based on an electrochemical molecular beacon coupled with a nafion-graphene composite film modified screen-printed carbon electrode. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 330-6	11.8	38
908	Graphene-based immunoassay for human lipocalin-2. 2014 , 446, 96-101		21
907	A dual-colorimetric signal strategy for DNA detection based on graphene and DNAzyme. 2014 , 4, 2421-2426		29

906	Electrochemical determination of estradiol using a thin film containing reduced graphene oxide and dihexadecylphosphate. 2014 , 37, 14-9	47
905	Voltammetric discrimination of mandelic acid enantiomers. 2014 , 449, 83-9	18
904	Nanotoxicity of graphene and graphene oxide. 2014 , 27, 159-68	570
903	Graphene and its nanocomposite material based electrochemical sensor platform for dopamine. 2014 , 4, 63296-63323	224
902	Environmentally Friendly Reduction of Graphene Oxide Using Tyrosine for Nonenzymatic Amperometric H ₂ O ₂ Detection. 2014 , 26, 156-163	25
901	Chitosan/AuNPs Modified Graphene Electrochemical Sensor for Label-Free Human Chorionic Gonadotropin Detection. 2014 , 26, 2591-2598	16
900	Graphene Oxide Composites with Silver Nanoparticles: Photochemical Formation and Electrocatalytic Activity in the Oxidation of Methanol and Formaldehyde. 2014 , 50, 155-161	6
899	Interaction of graphene oxide with human serum albumin and its mechanism. 2014 , 4, 55290-55295	43
898	Reduced graphene oxide/TiO ₂ based platform for label-free biosensor. 2014 , 4, 60386-60396	23
897	Graphene nanoflakes as an efficient ionizing matrix for MALDI-MS based lipidomics of cancer cells and cancer stem cells. 2014 , 2, 7334-7343	45
896	Label-free human chorionic gonadotropin detection at picogram levels using oriented antibodies bound to graphene screen-printed electrodes. 2014 , 2, 1852-1865	52
895	Dually functional, N-doped porous graphene foams as counter electrodes for dye-sensitized solar cells. 2014 , 16, 21820-6	29
894	Reduced graphene oxide multilayers for gas and liquid phases chemical sensing. 2014 , 4, 17917	27
893	A novel nitrite biosensor based on direct electron transfer of hemoglobin immobilized on a graphene oxide/Au nanoparticles/multiwalled carbon nanotubes nanocomposite film. 2014 , 4, 31573	19
892	Graphene nanosensor for highly sensitive fluorescence turn-on detection of Hg ²⁺ based on target recycling amplification. 2014 , 4, 39082	6
891	Simultaneous determination of dopamine, uric acid and ascorbic acid using a glassy carbon electrode modified with reduced graphene oxide. 2014 , 4, 26895	40
890	Graphene: Environmental and Sensor Applications. 2014 , 159-224	3
889	Simultaneous determination of epinephrine and dopamine by electrochemical reduction on the hybrid material SiO ₂ /graphene oxide decorated with Ag nanoparticles. 2014 , 139, 4634-40	56

888	A Review of Glucose Biosensors Based on Graphene/Metal Oxide Nanomaterials. 2014 , 47, 1821-1834	40
887	Novel water-soluble multi-nanopore graphene modified glassy carbon electrode for simultaneous determination of dopamine and uric acid in the presence of ascorbic acid. 2014 , 143, 366-373	40
886	Electropolymers for (nano-)imprinted biomimetic biosensors. 2014 , 125-149	8
885	Novel GO-COO- β -CD/CA inclusion: its blood compatibility, antibacterial property and drug delivery. 2014 , 21, 362-9	13
884	Graphene-based materials: fabrication and application for adsorption in analytical chemistry. 2014 , 1362, 1-15	124
883	High-Performance Dopamine Sensors Based on Whole-Graphene Solution-Gated Transistors. 2014 , 24, 978-985	112
882	High Selectivity of Porous Graphene Electrodes Solely Due to Transport and Pore Depletion Effects. 2014 , 118, 22635-22642	22
881	Multi- and few-layer graphene on insulating substrate via pulsed laser deposition technique. 2014 , 317, 1004-1009	44
880	Fluorescent sensors using DNA-functionalized graphene oxide. 2014 , 406, 6885-902	102
879	Electronic structure of cyclodextrin decorated carbon nanotube films. 2014 , 610-611, 95-97	
878	Graphene nanoelectronic heterodyne sensor for rapid and sensitive vapour detection. 2014 , 5, 4376	141
877	Cyclic RGD-modified chitosan/graphene oxide polymers for drug delivery and cellular imaging. 2014 , 122, 332-340	65
876	Voltammetric analysis of anti-arthritis drug, ascorbic acid, tyrosine, and uric acid using a graphene decorated-functionalized conductive polymer electrode. 2014 , 139, 315-322	17
875	A graphene oxide/conducting polymer nanocomposite for electrochemical dopamine detection: origin of improved sensitivity and specificity. 2014 , 2, 5209-5219	62
874	In situ oxygenous functionalization of a graphite electrode for enhanced affinity towards charged species and a reduced graphene oxide mediator. 2014 , 38, 2120-2127	15
873	Recent progress in graphene-material-based optical sensors. 2014 , 406, 6903-16	45
872	Nanoporous graphene materials. 2014 , 17, 77-85	146
871	Ultra-wide-range electrochemical sensing using continuous electrospun carbon nanofibers with high densities of states. 2014 , 6, 3394-405	57

870	Nanotechnology for Water Treatment and Purification. 2014 ,	20
869	Environmentally responsive graphene systems. 2014 , 10, 2151-64	62
868	Tailoring the Resonance of Bilayer Graphene Sheets by Interlayer sp ³ Bonds. 2014 , 118, 732-739	13
867	Effect of noncovalent basal plane functionalization on the quantum capacitance in graphene. 2014 , 6, 10296-303	17
866	Graphene controlled H- and J-stacking of perylene dyes into highly stable supramolecular nanostructures for enhanced photocurrent generation. 2014 , 6, 10516-23	20
865	Mesoporous silica particle embedded functional graphene oxide as an efficient platform for urea biosensing. 2014 , 6, 6711-6720	19
864	Graphene-supported nanoelectrocatalysts for fuel cells: synthesis, properties, and applications. 2014 , 114, 5117-60	790
863	Bio-reduction of graphene oxide using drained water from soaked mung beans (<i>Phaseolus aureus</i> L.) and its application as energy storage electrode material. 2014 , 186, 33-40	80
862	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. 2014 , 69, 66-78	139
861	Electrochemical sensing platform for L-CySH based on nearly uniform Au nanoparticles decorated graphene nanosheets. 2014 , 38, 292-8	27
860	A field effect transistor biosensor with a Epyrone derivative engineered lipid-sensing layer for ultrasensitive Fe ³⁺ ion detection with low pH interference. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 571-7 ^{11.8}	18
859	Novel Prostate Specific Antigen plastic antibody designed with charged binding sites for an improved protein binding and its application in a biosensor of potentiometric transduction. 2014 , 132, 142-150	42
858	SERS detection of trace nitrite ion in aqueous solution based on the nitrosation reaction of rhodamine 6G molecular probe. 2014 , 201, 336-342	38
857	Graphene-based field effect transistor enzymatic glucose biosensor using silk protein for enzyme immobilization and device substrate. 2014 , 202, 1357-1365	93
856	Effects of acid vapour mediated oxidization on the electrochemical performance of thermally exfoliated graphene. 2014 , 74, 195-206	23
855	Nanomaterial-based biosensors for food toxin detection. 2014 , 174, 880-96	73
854	Filamentous pyrolytic carbon film and its electroanalytical properties. 2014 , 727, 13-20	5
853	Chemical sensors based on polymer composites with carbon nanotubes and graphene: the role of the polymer. 2014 , 2, 14289-14328	169

852	Graphene oxide functionalized with ethylenediamine triacetic acid for heavy metal adsorption and anti-microbial applications. 2014 , 77, 289-301		180
851	An ionic liquid-modified graphene based molecular imprinting electrochemical sensor for sensitive detection of bovine hemoglobin. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 391-6	11.8	101
850	3D graphene nano-grid as a homogeneous protein distributor for ultrasensitive biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 422-8	11.8	7
849	Energetic Graphene-Based Electrochemical Analytical Devices in Nucleic Acid, Protein and Cancer Diagnostics and Detection. 2014 , 26, 14-29		23
848	Future Directions in Sensor Networks. 2014 , 115-121		1
847	Graphene Overview. 2014 , 1-20		1
846	Graphene Protein Field Effect Biomedical Sensor for Glucose Measurements. 2015 , 1725, 50		2
845	Rapid Fluorescent Detection of Enterotoxigenic Escherichia coli (ETEC) K88 Based on Graphene Oxide-Dependent Nanoquencher and Klenow Fragment-Triggered Target Cyclic Amplification. 2015 , 69, 1175-81		10
844	Reliable redundancy with memristive-biosensors to achieve statistical significance in immunosensing. 2015 ,		1
843	Single-transfer method for fabrication of linear array of graphene-based nanodevices. 2015 ,		
842	Stochastic Events in Nanoelectrochemical Systems. 2015 , 256-307		
841	Large-Scale Molecular Simulations on the Mechanical Response and Failure Behavior of a defective Graphene: Cases of 5-8-5 Defects. 2015 , 5, 14957		44
840	Design of Wireless Nanosensor Networks for Intrabody Application. 2015 , 11, 176761		19
839	Direct bioelectrocatalysis at the interfaces by genetically engineered dehydrogenase. 2015 , 4, 79-89		6
838	Recent Investigations of Single Living Cells with Ultramicroelectrodes. 2015 , 454-483		2
837	Graphene/Conjugated Polymer Nanocomposites for Optoelectronic and Biological Applications. 2015 , 229-279		1
836	Sodium Alginate Decorated Carbon Nanotubes-Graphene Composite Aerogel for Heavy Metal Ions Detection. 2015 , 83, 84-90		19
835	Antibody-Based Technologies for Environmental Biodetection. 2015 , 2.3.1-1-2.3.1-12		

834	- Functionalization of Carbon Nanotubes with Polymers. 2015 , 848-869	1
833	Electrocatalytic Interface Based on Novel Carbon Nanomaterials for Advanced Electrochemical Sensors. 2015 , 7, 2744-2764	51
832	Two-Dimensional Transition Metal Dichalcogenides in Biosystems. 2015 , 25, 5086-5099	256
831	Green and Straightforward Modification of Graphite Electrode via In Situ Synthesis of Graphene Nanosheets for Quantifying Prazosin Hydrochloride in Urine Samples and Pharmaceutical Formulations. 2015 , 27, 2377-2386	5
830	An Improved Turn-On Aptasensor for Thrombin Detection Using Split Aptamer Fragments and Graphene Oxide. 2015 , 33, 981-986	15
829	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. 2015 , 212, 1335-1341	6
828	Electrocatalytic Activities of Chemically Reduced Graphene Are Essentially Dominated by the Adhered Carbonaceous Debris. 2015 , 21, 17239-44	5
827	Acidic and Basic Functionalized Carbon Nanomaterials as Electrical Bridges in Enzyme Loaded Chitosan/Poly(styrene sulfonate) Self-Assembled Layer-by-Layer Glucose Biosensors. 2015 , 27, 2139-2149	17
826	Nanomaterial-enabled Rapid Detection of Water Contaminants. 2015 , 11, 5336-59	90
825	Current and Prospective Methods for Plant Disease Detection. 2015 , 5, 537-61	296
824	Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. 2015 , 5, 1995-2006	37
823	Polyaniline-based biosensors. 2015 , 25	10
822	Study of Reduced Graphene Oxide Preparation by Hummers' Method and Related Characterization. 2015 , 2015, 1-5	77
821	Increasing the activity of immobilized enzymes with nanoparticle conjugation. 2015 , 34, 242-50	179
820	DNA induced FePt bimetallic nanoparticles on reduced graphene oxide for electrochemical determination of dopamine. 2015 , 31, 406-411	3
819	Immunologic biosensing of foodborne pathogenic bacteria using electrochemical or light-addressable potentiometric sensor (LAPS) detection platforms. 2015 , 301-314	1
818	A new strategy for simultaneous determination of 4-aminophenol, uric acid and nitrite based on a graphene/hydroxyapatite composite modified glassy carbon electrode. 2015 , 5, 52703-52709	22
817	Preparation and characterization of graphene oxide reinforced PVA film with boric acid as crosslinker. 2015 , 132, n/a-n/a	26

816	Carbon Nanomaterials as Adsorbents for Environmental and Biological Applications. 2015 ,	45
815	Poly(ionic liquids) functionalized polypyrrole/graphene oxide nanosheets for electrochemical sensor to detect dopamine in the presence of ascorbic acid. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 289-98	11.8 113
814	Comparison of performances of bioanodes modified with graphene oxide and graphene-platinum hybrid nanoparticles. 2015 , 57, 31-34	23
813	Fabrication and electrical characterization of graphene oxide as transducing channel for biosensor application. 2015 ,	1
812	Biocompatible responsive polypyrrole/GO nanocomposite coatings for biomedical applications. 2015 , 5, 99866-99874	23
811	Application of Inorganic Layered Materials in Electrochemical Sensors. 2015 , 43, 1648-1655	9
810	Graphene oxide nanoribbon-based sensors for the simultaneous bio-electrochemical enantiomeric resolution and analysis of amino acid biomarkers. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 163-167	11.8 49
809	Facile synthesis of 2-dimensional transparent graphene flakes for nucleic acid detection. 2015 , 210, 281-289	22
808	Influence of interconfigurational electronic States On Fe, Co, Ni-silicene materials selection for spintronics. 2014 , 4, 7594	23
807	Graphene nanoribbon-based electrochemical sensors on screen-printed platforms. 2015 , 172, 2-6	34
806	Electrochemistry of nonconjugated proteins and glycoproteins. Toward sensors for biomedicine and glycomics. 2015 , 115, 2045-108	223
805	A Fractal Analysis of the Binding and Dissociation Kinetics of Glucose to Different Biosensor Surfaces. 2015 , 197-244	
804	Multidimensional carbon allotropes as electrochemical detectors in capillary and microchip electrophoresis. 2015 , 36, 179-94	43
803	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. 2015 , 7, 4820-68	152
802	Membrane/mediator-free rechargeable enzymatic biofuel cell utilizing graphene/single-wall carbon nanotube cogel electrodes. 2015 , 7, 4056-65	61
801	Synthesis of highly dispersed Pt nanoclusters anchored graphene composites and their application for non-enzymatic glucose sensing. 2015 , 157, 149-157	99
800	Anamperometric superoxide anion radical biosensor based on SOD/PtPd-PDARGO modified electrode. 2015 , 137, 18-24	32
799	Human flavin-containing monooxygenase 3 on graphene oxide for drug metabolism screening. 2015 , 87, 2974-80	19

798	Preparation of reduced graphene oxide/Cu nanoparticle composites through electrophoretic deposition: application for nonenzymatic glucose sensing. 2015 , 5, 15861-15869		89
797	Applications of graphene and related nanomaterials in analytical chemistry. 2015 , 39, 2380-2395		59
796	An enzymatic biosensor for hydrogen peroxide based on one-pot preparation of CeO ₂ -reduced graphene oxide nanocomposite. 2015 , 5, 12937-12943		58
795	Graphene oxide immobilized enzymes show high thermal and solvent stability. 2015 , 7, 5852-8		167
794	Design, synthesis, and characterization of graphene-nanoparticle hybrid materials for bioapplications. 2015 , 115, 2483-531		514
793	Ultrasensitive label-free electrochemiluminescence immunosensor based on -(4-aminobutyl)-ethylisoluminol-functionalized graphene composite. 2015 , 58, 425-432		12
792	Controllable decoration of CVD-grown graphene with Au NP as a promising ammonia sensing platform. 2015 , 26, 1500-1506		4
791	A novel amperometric biosensor based on gold nanoparticles anchored on reduced graphene oxide for sensitive detection of l-lactate tumor biomarker. <i>Biosensors and Bioelectronics</i> , 2015 , 69, 280-6	11.8	86
790	CHAPTER 7:Heterogeneous Catalysis on Nanostructured Carbon Material Supported Catalysts. 2015 , 312-411		1
789	Ultrasensitive electrochemical immunosensor for PSA biomarker detection in prostate cancer cells using gold nanoparticles/PAMAM dendrimer loaded with enzyme linked aptamer as integrated triple signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 915-23	11.8	180
788	Highly sensitive and wide-range nonenzymatic disposable glucose sensor based on a screen printed carbon electrode modified with reduced graphene oxide and Pd-CuO nanoparticles. 2015 , 182, 2183-2192		42
787	Highly sensitive transient absorption imaging of graphene and graphene oxide in living cells and circulating blood. 2015 , 5, 12394		28
786	Graphene-based hybrid films for plasmonic sensing. 2015 , 7, 14561-76		37
785	Highly sensitive p-nitrophenol determination employing a new sensor based on N-Methylphenazonium methyl sulfate and graphene: Analysis in natural and treated waters. 2015 , 221, 740-749		23
784	Nanotechnology for Chemical Engineers. 2015 ,		5
783	From Nanotechnology to Nanoengineering. 2015 , 79-178		6
782	The graphene/nucleic acid nanobiointerface. 2015 , 44, 6954-80		153
781	l-Phenylalanine edge functionalized graphite nanoplatelets as a nanoscale filler for poly(esteramideimide) matrix. 2015 , 12, 2065-2073		1

780	Current trends in nanomaterial embedded field effect transistor-based biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 731-43	11.8	72
779	One-pot synthesis of an RGO/ZnO nanocomposite on zinc foil and its excellent performance for the nonenzymatic sensing of xanthine. 2015 , 221, 528-536		23
778	Detection of <i>Aeromonas hydrophila</i> DNA oligonucleotide sequence using a biosensor design based on Ceria nanoparticles decorated reduced graphene oxide and Fast Fourier transform square wave voltammetry. 2015 , 895, 80-8		49
777	Nanocomposite Matrix Functionalization for Biosensors. 2015 , 69-132		2
776	Self-folding graphene-polymer bilayers. 2015 , 106, 203108		50
775	Synthesis of 3D Silver-Graphene-Titanium Dioxide Composite via Aerosol Spray Pyrolysis for Sensitive Glucose Biosensor. 2015 , 49, 538-546		18
774	Peptide-based biomaterials. Linking l-tyrosine and poly l-tyrosine to graphene oxide nanoribbons. 2015 , 3, 3870-3884		22
773	Graphene as an anti-corrosion coating layer. 2015 , 180, 495-509		45
772	Sensitive electrochemical immunosensor for Hefetoprotein based on graphene/SnO ₂ /Au nanocomposite. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 82-87	11.8	72
771	In situ growth of capping-free magnetic iron oxide nanoparticles on liquid-phase exfoliated graphene. 2015 , 7, 8995-9003		6
770	The Application of Assembled Inorganic and Organic Hybrid Nanoarchitecture of Prussian Blue/Polymers/Graphene in Glucose Biosensing. 2015 , 25, 275-281		9
769	Bioconjugation of lipase and cholesterol oxidase with graphene or graphene oxide. 2015 , 17, 1		4
768	Emerging carbon-based nanosensor devices: structures, functions and applications. 2015 , 3, 63-72		12
767	Nano-Encapsulation of Glucose Oxidase Dimer by Graphene. 2015 , 1725, 1		
766	Minimizing Unintentional Strain and Doping of Single-Layer Graphene on SiO ₂ in Aqueous Environments by Acid Treatments. 2015 , 31, 4934-9		2
765	Graphene modified glassy carbon sensor for the determination of aspirin metabolites in human biological samples. 2015 , 143, 328-334		14
764	Cobalt-nickel bimetallic nanoparticles decorated graphene sensitized imprinted electrochemical sensor for determination of octylphenol. 2015 , 168, 337-345		75
763	Graphene-protein field effect biosensors: glucose sensing. 2015 , 18, 513-522		110

762	Covalent functionalization of graphene with polythiophene through a Suzuki coupling reaction. 2015 , 5, 42754-42761	32
761	A Sensitive Silver Nanorod/Reduced Graphene Oxide SERS Analytical Platform and Its Application to Quantitative Analysis of Iodide in Solution. 2015 , 10, 285-295	18
760	Microwave-assisted synthesis of PtAu@C based bimetallic nanocatalysts for non-enzymatic H ₂ O ₂ sensor. 2015 , 180, 873-878	29
759	Label-free cytokine micro- and nano-biosensing towards personalized medicine of systemic inflammatory disorders. 2015 , 95, 90-103	46
758	Tuning Surface Charge and Morphology for the Efficient Detection of Dopamine under the Interferences of Uric Acid, Ascorbic Acid, and Protein Adsorption. 2015 , 7, 21931-8	47
757	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. 2015 , 9, 12174-81	105
756	Biotic-Abiotic Interactions: Factors that Influence Peptide-Graphene Interactions. 2015 , 7, 20447-53	34
755	Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. 2015 , 162, B282-B290	15
754	Reconstructed graphene nanoribbon as a sensor for nitrogen based molecules. 2015 , 357, 55-59	19
753	Protein functionalized carbon nanomaterials for biomedical applications. 2015 , 95, 767-779	147
752	Electrochemical determination of guaifenesin in a pharmaceutical formulation and human urine based on an anodized nanocrystalline graphite-like pyrolytic carbon film electrode. 2015 , 7, 8778-8785	6
751	Biocomposite based on reduced graphene oxide film modified with phenothiazone and flavin adenine dinucleotide-dependent glucose dehydrogenase for glucose sensing and biofuel cell applications. 2015 , 87, 9567-71	37
750	Graphene electronic sensors [Review of recent developments and future challenges. 2015 , 9, 446-453	36
749	Plant Esterase-Chitosan/Gold Nanoparticles-Graphene Nanosheet Composite-Based Biosensor for the Ultrasensitive Detection of Organophosphate Pesticides. 2015 , 63, 10319-26	66
748	A new electrochemical aptasensor based on electrocatalytic property of graphene toward ascorbic acid oxidation. 2015 , 134, 699-704	13
747	Targeting cardiac potassium channels for state-of-the-art drug discovery. 2015 , 10, 157-69	8
746	Investigation of Graphene/Ag Nanocomposites Synthesis Parameters for Two Different Synthesis Methods. 2015 , 23, 361-370	135
745	Flexible organic electrochemical transistors for highly selective enzyme biosensors and used for saliva testing. 2015 , 27, 676-81	216

744	Three dimensional metal oxides/graphene composites and their applications in lithium ion batteries. 2015 , 5, 8814-8834	51
743	Investigation of the capacitive performance of tobacco solution reduced graphene oxide. 2015 , 151, 72-80	10
742	Assembly-line manipulation of droplets in microfluidic platform for fluorescence encoding and simultaneous multiplexed DNA detection. 2015 , 134, 271-277	11
741	Growing TiO ₂ nanotubes on graphene nanoplatelets and applying the nanonanocomposite as scaffold of electrochemical tyrosinase biosensor. 2015 , 209, 328-335	37
740	DFT and TD-DFT studies on the electronic and optical properties of explosive molecules adsorbed on boron nitride and graphene nano flakes. 2015 , 5, 4599-4608	23
739	Recent advances in chemical modifications of graphene. 2015 , 8, 1039-1074	154
738	Highly enhanced electrochemical responses of rutin by nanostructured Fe ₂ O ₃ /RGO composites. 2015 , 21, 1427-1434	15
737	Effect of particle geometry on triple line motion of nano-fluid drops and deposit nano-structuring. 2015 , 222, 44-57	31
736	Graphene oxide-based biosensor for detection of platelet-derived microparticles: A potential tool for thrombus risk identification. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 274-80	11.8 46
735	An electrochemical sensor based on graphene/polyaniline/polystyrene nanoporous fibers modified electrode for simultaneous determination of lead and cadmium. 2015 , 207, 526-534	221
734	Synergistic Effect of Graphene and Multiwalled Carbon Nanotubes on a Glassy Carbon Electrode for Simultaneous Determination of Uric Acid and Dopamine in the Presence of Ascorbic Acid. 2015 , 48, 248-258	19
733	Synthesis of short graphene oxide nanoribbons for improved biomarker detection of Parkinson's disease. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 327-33	11.8 22
732	Carbon nanotube network embroidered graphene films for monolithic all-carbon electronics. 2015 , 27, 682-8	48
731	Synthesis and utilisation of graphene for fabrication of electrochemical sensors. 2015 , 131, 424-43	141
730	Molecularly engineered graphene surfaces for sensing applications: A review. 2015 , 859, 1-19	169
729	Two-dimensional soft nanomaterials: a fascinating world of materials. 2015 , 27, 403-27	374
728	Nanomaterial-based electrochemical sensing of neurological drugs and neurotransmitters. 2015 , 182, 1-41	244
727	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 373-85	11.8 148

726	A reusable magnetic graphene oxide-modified biosensor for vascular endothelial growth factor detection in cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 431-7	11.8	88
725	Analysis of magnetically biased graphene-based periodic structures using a transmission-line formulation. 2016 , 33, 2566		10
724	Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. 2016 , 2016, 3130469		90
723	Electronic Biosensing with Functionalized rGO FETs. 2016 , 6, 17		29
722	Selective Growth of and Electricity Production by Marine Exoelectrogenic Bacteria in Self-Aggregated Hydrogel of Microbially Reduced Graphene Oxide. 2016 , 2, 15		9
721	Sol-Gel Synthesis of Carbon Xerogel-ZnO Composite for Detection of Catechol. 2016 , 9,		10
720	Fabrication of Gelatin-Based Electrospun Composite Fibers for Anti-Bacterial Properties and Protein Adsorption. 2016 , 14,		18
719	Amperometric Biosensor Based on Diamine Oxidase/Platinum Nanoparticles/Graphene/Chitosan Modified Screen-Printed Carbon Electrode for Histamine Detection. 2016 , 16, 422		56
718	Chitosan-carbon Nanofiber Modified Single-use Graphite Electrodes Developed for Electrochemical Detection of DNA Hybridization Related to Hepatitis B Virus. 2016 , 28, 2514-2521		14
717	Synergistic effects between iron-graphene and melamine salt of pentaerythritol phosphate on flame retardant thermoplastic polyurethane. 2016 , 27, 1508-1516		23
716	The Application of Graphene and Its Derivatives to Energy Conversion, Storage, and Environmental and Biosensing Devices. 2016 , 16, 1591-634		48
715	Layered Platinum Dichalcogenides (PtS ₂ , PtSe ₂ , and PtTe ₂) Electrocatalysis: Monotonic Dependence on the Chalcogen Size. 2016 , 26, 4306-4318		175
714	Supramolecular Approaches to Graphene: From Self-Assembly to Molecule-Assisted Liquid-Phase Exfoliation. 2016 , 28, 6030-51		132
713	Noncovalent Interaction of Graphene with Heterocyclic Compounds: Benzene, Imidazole, Tetracene, and Imidazophenazines. 2016 , 17, 1204-12		16
712	Stimuli-Regulated Enzymatically Degradable Smart Graphene-Oxide-Polymer Nanocarrier Facilitating Photothermal Gene Delivery. 2016 , 5, 1918-30		42
711	Biomedical Uses for 2D Materials Beyond Graphene: Current Advances and Challenges Ahead. 2016 , 28, 6052-74		266
710	Graphene-based Portable SPR Sensor for the Detection of Mycobacterium tuberculosis DNA Strain. 2016 , 168, 541-545		28
709	Bovine Serum Albumin stability in the context of biosensors. 2016 ,		1

708	Electrical properties of chemically doped graphene with Aluminum ions. 2016,	
707	Encyclopedia of Nanotechnology. 2016, 309-322	
706	Self-assembled and intercalated film of reduced graphene oxide for a novel vacuum pressure sensor. 2016, 6, 38830	6
705	Nanoelectromechanical systems based on low dimensional nanomaterials: Beyond carbon nanotube and graphene nanomechanical resonators—brief review. 2016,	0
704	An efficient and environment-friendly method of removing graphene oxide in wastewater and its degradation mechanisms. 2016, 153, 531-40	26
703	Bioelectronics with two-dimensional materials. 2016, 161, 18-35	40
702	High-performance flexible hydrogen sensor made of WS ₂ /nanosheet-Pd nanoparticle composite film. 2016, 27, 195501	63
701	A facile one-step folic acid modified partially oxidized graphene for high sensitivity tumor cell sensing. 2016, 141, 4713-8	6
700	The catalytic activity of Ag ₂ S-montmorillonites as peroxidase mimetic toward colorimetric detection of H ₂ O ₂ . 2016, 65, 109-15	33
699	Biophysical characterization and activity analysis of nano-magnesium supplemented cellulase obtained from a psychrobacterium following graphene oxide immobilization. 2016, 95, 248-258	19
698	Bio-inspired patterned networks (BIPS) for development of wearable/disposable biosensors. 2016,	1
697	Novel Electrochemical DNA Biosensors as Tools for Investigation and Detection of DNA Damage. 2016, 203-221	2
696	Chemical vapor deposition grown graphene DNA field-effect transistor biosensor with gold nanoparticles signal amplification. 2016,	1
695	A Graphene/Gelatin Composite Material for the Entrapment of Hemoglobin for Bioelectrochemical Sensing Applications. 2016, 163, B265-B271	10
694	Contamination-free suspended graphene structures by a Ti-based transfer method. 2016, 103, 305-310	12
693	Graphene oxide-cationic polymer conjugates: Synthesis and application as gene delivery vectors. 2016, 84-85, 51-60	31
692	Graphene nanoribbon field effect transistor for nanometer-size on-chip temperature sensor. 2016,	
691	Electrogenerated Chemiluminescence Resonance Energy Transfer between Ru(bpy) ₃ (2+) Electrogenerated Chemiluminescence and Gold Nanoparticles/Graphene Oxide Nanocomposites with Graphene Oxide as Coreactant and Its Sensing Application. 2016, 88, 5469-75	95

690	Electrochemical biosensing of galactose based on carbon materials: graphene versus multi-walled carbon nanotubes. 2016 , 408, 4329-39	24
689	New CNT/poly(brilliant green) and CNT/poly(3,4-ethylenedioxythiophene) based electrochemical enzyme biosensors. 2016 , 927, 35-45	25
688	A computational study of the interaction of graphene structures with biomolecular units. 2016 , 18, 15312-21	14
687	The role of hydrogen partial pressure on the annealing of copper substrates for graphene CVD synthesis. 2016 , 3, 045602	20
686	Novel reduced graphene oxide-glycol chitosan nanohybrid for the assembly of an amperometric enzyme biosensor for phenols. 2016 , 141, 4162-9	27
685	Polyaniline-graphene oxide nanocomposite sensor for quantification of calcium channel blocker levamlodipine. 2016 , 65, 205-14	19
684	One-step synthesis of Au nanoparticle-graphene composites using tyrosine: electrocatalytic and catalytic properties. 2016 , 40, 5473-5482	31
683	Enhancement of flame-retardant performance of thermoplastic polyurethane with the incorporation of aluminum hypophosphite and iron-graphene. 2016 , 129, 275-285	67
682	A nanocarbon paste electrode modified with nitrogen-doped graphene for square wave anodic stripping voltammetric determination of trace lead and cadmium. 2016 , 183, 709-714	24
681	Self healing nature of bilayer graphene. 2016 , 96, 26-35	7
680	Real-time amperometric monitoring of cellular hydrogen peroxide based on electrodeposited reduced graphene oxide incorporating adsorption of electroactive methylene blue hybrid composites. 2016 , 780, 60-67	15
679	Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS ₂ Nanosheets. 2016 , 1, 1315-1321	52
678	Macrocycles inserted in graphene: from coordination chemistry on graphene to graphitic carbon oxide. 2016 , 8, 17976-17983	11
677	Targeted Raman Imaging of Cells Using Graphene Oxide-Based Hybrids. 2016 , 32, 10253-10258	11
676	Substrate dependent photochemical oxidation of monolayer graphene. 2016 , 6, 8489-8494	4
675	Functionalized-Graphene Composites: Fabrication and Applications in Sustainable Energy and Environment. 2016 , 28, 8082-8118	151
674	Electrocatalytic Sensing with Reduced Graphene Oxide: Electron Shuttling between Redox Couples Anchored on a 2-D Surface. 2016 , 1, 1203-1207	15
673	Ni-Co-Se nanoparticles modified reduced graphene oxide nanoflakes, an advance electrocatalyst for highly efficient hydrogen evolution reaction. 2016 , 213, 423-431	30

672	Recent Advances in Laser Utilization in the Chemical Modification of Graphene Oxide and Its Applications. 2016 , 4, 37-65	96
671	Enzyme-Based Biosensors in Food Industry via Surface Modifications. 2016 , 227-252	1
670	. 2016 , 8, 1-8	47
669	Biosensor based on bacterial cellulose-Au nanoparticles electrode modified with laccase for hydroquinone detection. 2016 , 509, 408-414	41
668	Effect of III-V nitrides on performance of graphene based SPR biosensor for detection of hemoglobin in human blood sample: A comparative analysis. 2016 , 16, 1607-1613	3
667	A digoxin electrochemical aptasensor using Ag nanoparticle decorated graphene oxide. 2016 , 8, 7247-7253	17
666	Graphene-Based Polymer Composites for Biomedical Applications. 2016 , 657-690	2
665	An Electrochemical Immunosensor for Rapid and Sensitive Detection of Mycotoxins Fumonisin B1 and Deoxynivalenol. 2016 , 213, 89-97	80
664	2D nanostructures for water purification: graphene and beyond. 2016 , 8, 15115-31	242
663	Can single graphene nanodisks be used as Raman enhancement platforms?. 2016 , 6, 71397-71403	3
662	Origin of residual particles on transferred graphene grown by CVD. 2016 , 55, 080305	9
661	A Modular Bioplatform Based on a Versatile Supramolecular Multienzyme Complex Directly Attached to Graphene. 2016 , 8, 21077-88	11
660	Reflectivity properties of graphene with a nonzero mass-gap parameter. 2016 , 93,	19
659	Deciphering the Platinized Surface Reactivity to Improve the Detection of Hydrogen Peroxide in Bioanalyses. 2016 , 3, 2288-2296	5
658	Graphene and graphene-based nanocomposites: biomedical applications and biosafety. 2016 , 4, 7813-7831	108
657	GRAPHENE-BASED NANOSYSTEMS FOR THE DETECTION OF PROTEINIC BIOMARKERS OF DISEASE. 2016 , 377-399	2
656	Graphene-based materials for the electrochemical determination of hazardous ions. 2016 , 946, 9-39	36
655	Applications of Carbon Nanomaterials in Biosensor. 2016 , 103-134	

654	Acetylene black paste electrode modified with molecularly imprinted polymers/graphene for the determination of bisphenol A. 2016 , 39, 4851-4857	13
653	Hierarchical core-shell structure of ZnO nanotube/MnO ₂ nanosheet arrays on a 3D graphene network as a high performance biosensing platform. 2016 , 6, 61190-61199	11
652	Sentaurus [®] based modeling and simulation for GFET's characteristic for ssDNA immobilization and hybridization. 2016 , 37, 014005	1
651	Ultrafast and Ultrasensitive Gas Sensors Derived from a Large Fermi-Level Shift in the Schottky Junction with Sieve-Layer Modulation. 2016 , 8, 17382-8	12
650	Adsorption orientations and immunological recognition of antibodies on graphene. 2016 , 8, 13463-75	38
649	Graphene-Based DNA Sensors. 2016 , 13-26	2
648	Graphene Biodevices. 2016 , 57-70	
647	Enzymeless electrochemical detection of hydrogen peroxide at Pd nanoparticles/porous graphene. 2016 , 781, 204-211	28
646	Synergistic effects between iron-graphene and ammonium polyphosphate in flame-retardant thermoplastic polyurethane. 2016 , 126, 633-642	36
645	Electrophoretic-deposited novel ternary silk fibroin/graphene oxide/hydroxyapatite nanocomposite coatings on titanium substrate for orthopedic applications. 2016 , 10, 270-280	18
644	Optical fingerprints and electron transport properties of DNA bases adsorbed on monolayer MoS ₂ . 2016 , 6, 60223-60230	20
643	Carbon Paste Electrodes Modified with Graphene Oxides [Comparative Electrochemical Studies of Thioguanine. 2016 , 28, 1562-1569	24
642	Nanomaterials-based electrochemical immunosensors for cardiac troponin recognition: An illustrated review. 2016 , 82, 337-347	47
641	Light-Triggered Switchable Graphene-Polymer Hybrid Bioelectronics. 2016 , 3, 1500353	12
640	Graphene oxide-mediated electrochemistry of glucose oxidase on glassy carbon electrodes. 2016 , 63, 157-62	7
639	Synthesis and characterization of Au-immobilized nanoparticles onto cellulose-ethylenediamine-grafted reduced graphite oxide sheets. 2016 , 171, 303-311	5
638	Peptide interfaces with graphene: an emerging intersection of analytical chemistry, theory, and materials. 2016 , 408, 2649-58	21
637	Emerging trends in graphene carbon based polymer nanocomposites and applications. 2016 , 32,	40

636	Stable-on-the-Table Enzymes: Engineering the Enzyme-Graphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst. 2016 , 6, 339-347		31
635	Synthesis and functionalization of graphene and application in electrochemical biosensing. 2016 , 5,		17
634	In-situ hydrothermal synthesis of molecularly imprinted polymers coated carbon dots for fluorescent detection of bisphenol A. 2016 , 228, 302-307		92
633	Electrochemistry of ferrocene derivatives on highly oriented pyrolytic graphite (HOPG): quantification and impacts of surface adsorption. 2016 , 18, 4966-77		35
632	Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection. 2016 , 16, 144-51		12
631	Transfer of Chemically Modified Graphene with Retention of Functionality for Surface Engineering. 2016 , 16, 1455-61		15
630	Simultaneous determination of CRP and D-dimer in human blood plasma samples with White Light Reflectance Spectroscopy. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 89-96	11.8	31
629	Improving the dissolution of fenofibrate with yeast cell-derived hollow core/shell carbon microparticles. 2016 , 6, 30226-30233		2
628	DNA-based ATP sensing. 2016 , 77, 226-241		26
627	Graphene-zinc oxide nanorods nanocomposite based sensor for voltammetric quantification of tizanidine in solubilized system. 2016 , 369, 151-158		15
626	Graphene/layered double hydroxide nanocomposite: Properties, synthesis, and applications. 2016 , 292, 207-223		124
625	Assessing biocompatibility of graphene oxide-based nanocarriers: A review. 2016 , 226, 217-28		178
624	Pulsed-Plasma Physical Vapor Deposition Approach Toward the Facile Synthesis of Multilayer and Monolayer Graphene for Anticoagulation Applications. 2016 , 8, 4878-86		3
623	Screen-printed disposable electrodes: Pharmaceutical applications and recent developments. 2016 , 82, 1-11		102
622	Selective Accelerated Proliferation of Malignant Breast Cancer Cells on Planar Graphene Oxide Films. 2016 , 10, 3424-34		45
621	Recent Advances in the Study of Electrochemistry of Redox Proteins. 2016 , 223-262		3
620	Graphene induces spontaneous cardiac differentiation in embryoid bodies. 2016 , 8, 7075-84		32
619	Impedimetric Dengue Biosensor based on Functionalized Graphene Oxide Wrapped Silica Particles. 2016 , 194, 422-430		33

618	A novel voltammetric sensor for sensitive detection of mercury(II) ions using glassy carbon electrode modified with graphene-based ion imprinted polymer. 2016 , 63, 367-75		66
617	Graphene Biosensor Programming with Genetically Engineered Fusion Protein Monolayers. 2016 , 8, 8257-64		47
616	An Electrochemical Sensor based on p-aminothiophenol/Au Nanoparticle-Decorated HxTiS ₂ Nanosheets for Specific Detection of Picomolar Cu (II). 2016 , 190, 480-489		16
615	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg ²⁺ detection. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 244-50	11.8	38
614	Preparation and Characterization of Fe ₂ O ₃ Nanoparticles by Solid-Phase Method and Its Hydrogen Peroxide Sensing Properties. 2016 , 4, 1069-1077		48
613	Simulations of inorganic-bioorganic interfaces to discover new materials: insights, comparisons to experiment, challenges, and opportunities. 2016 , 45, 412-48		143
612	Ultrasensitive detection of superoxide anion released from living cells using a porous Pt-Pd decorated enzymatic sensor. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 449-56	11.8	41
611	A fluorescent sensor based on methyl dopa drug modified Fe ₂ O ₃ nanoparticles for ultrasensitive detection of calf thymus DNA. 2016 , 157, 104-109		5
610	Advances in electrospun carbon fiber-based electrochemical sensing platforms for bioanalytical applications. 2016 , 408, 1307-26		24
609	Molecularly imprinted electrochemical biosensor based on chitosan/ionic liquid/graphene composites modified electrode for determination of bovine serum albumin. 2016 , 225, 305-311		83
608	Applications of graphene in electrochemical sensing and biosensing. 2016 , 76, 1-14		156
607	Voltammetric studies of Azathioprine on the surface of graphite electrode modified with graphene nanosheets decorated with Ag nanoparticles. 2016 , 58, 1098-104		31
606	Effect of Point and Line Defects on Mechanical and Thermal Properties of Graphene: A Review. 2016 , 41, 47-71		90
605	Graphene and tricobalt tetraoxide nanoparticles based biosensor for electrochemical glutamate sensing. 2017 , 45, 340-348		18
604	The application of graphene for in vitro and in vivo electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 224-233	11.8	54
603	Recent advances in graphene-based nanomaterials for fabricating electrochemical hydrogen peroxide sensors. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 249-268	11.8	243
602	Synthesis of graphene and related two-dimensional materials for bioelectronics devices. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 28-42	11.8	46
601	Electrochemical sensors and biosensors based on less aggregated graphene. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 167-186	11.8	88

600	High-selectivity electrochemical non-enzymatic sensors based on graphene/Pd nanocomposites functionalized with designated ionic liquids. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 483-488	11.8	30
599	Fluorescent biosensors enabled by graphene and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 96-106	11.8	155
598	Applying graphene oxide nano-film over a polycarbonate nanoporous membrane to monitor E. coli by infrared spectroscopy. 2017 , 170, 14-8		16
597	Study on degrading graphene oxide in wastewater under different conditions for developing an efficient and economical degradation method. 2017 , 38, 2999-3006		5
596	Hierarchically designed PEDOT encapsulated graphene-MnO ₂ nanocomposite as supercapacitors. 2017 , 88, 218-225		14
595	Development of glucose biosensors based on plasma polymerization-assisted nanocomposites of polyaniline, tin oxide, and three-dimensional reduced graphene oxide. 2017 , 401, 262-270		46
594	Atomically thin semiconducting layers and nanomembranes: a review. 2017 , 32, 033001		5
593	Graphene Metal Nanoclusters in Cutting-Edge Theranostics Nanomedicine Applications. 2017 , 429-477		
592	Diaphite, a new type of surface with mixed sp ² -sp ³ hybridization for adsorption and functionalization. 2017 , 404, 154-161		3
591	Less defective fluorine-containing graphene with good dispersity: Preparation, characterization, and application in transparent conductive thin film. 2017 , 115, 285-292		9
590	Nanoparticle assisted activity optimization and characterization of a bacterial phytase immobilized on single layer graphene oxide. 2017 , 9, 240-247		9
589	Bioelectrochemical profiling of two common polymorphic variants of human FMO3 in presence of graphene oxide. 2017 , 228, 611-618		8
588	Inkjet-Printable Nanomaterials and Nanocomposites for Sensor Fabrication. 2017 , 293-316		1
587	Fabrication of nitrogen-doped carbon dots for screening the purine metabolic disorder in human fluids. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 30-38	11.8	46
586	Nanoparticle decoration with surfactants: Molecular interactions, assembly, and applications. 2017 , 72, 1-58		313
585	Covalently Anchored p-Aminobenzene Sulfonate Multilayer on a Graphite Pencil Lead Electrode: A Highly Selective Electrochemical Sensor for Dopamine. 2017 , 29, 1410-1417		8
584	The synthesis of polyamidoamine modified gold nanoparticles/SnO ₂ /graphene sheets nanocomposite and its application in biosensor. 2017 , 520, 668-675		11
583	Self-assembly of glucose oxidase on reduced graphene oxide-magnetic nanoparticles nanocomposite-based direct electrochemistry for reagentless glucose biosensor. 2017 , 76, 398-405		106

582	Trapped modes and resonances in gyrotropic graphene stacks. 2017 , 123, 1	2
581	Controlling the distribution of oxygen functionalities on GO and utilization of PEDOT:PSS-GO composite as hole injection layer of a solution processed blue OLED. 2017 , 17, 565-572	17
580	A Miniaturized Electrochemical System Based on Nickel Oxide Species for Glucose Sensing Applications. 2017 , 7, 58-63	4
579	Resonances in graphene-dielectric stacks. 2017 , 13,	2
578	Development of graphene drum resonator with nanocavity by low-pressure dry transfer technique. 2017 ,	
577	Hybrid Alginate-Protein-Coated Graphene Oxide Microcapsules Enhance the Functionality of Erythropoietin Secreting CC Myoblasts. 2017 , 14, 885-898	11
576	Ion beam modification of two-dimensional materials: Characterization, properties, and applications. 2017 , 4, 011103	114
575	Nano-magnesium aided activity enhancement and biophysical characterization of a psychrophilic α -amylase immobilized on graphene oxide nanosupport. 2017 , 124, 15-22	13
574	Optical properties of dielectric plates coated with gapped graphene. 2017 , 95,	12
573	Antibacterial Activities of Graphene Oxide-Molybdenum Disulfide Nanocomposite Films. 2017 , 9, 7908-7917	115
572	Quasi-Two-Dimensional Metal Oxide Semiconductors Based Ultrasensitive Potentiometric Biosensors. 2017 , 11, 4710-4718	61
571	Paper Based Glucose Biosensor Using Graphene Modified with a Conducting Polymer and Gold Nanoparticles. 2017 , 164, G59-G64	29
570	Nanomaterial-based electrochemical sensors for detection of glucose and insulin. 2017 , 21, 2147-2166	45
569	Reduced graphene oxide-chitosan-aptamer interface as new platform for ultrasensitive detection of human epidermal growth factor receptor 2. <i>Biosensors and Bioelectronics</i> , 2017 , 95, 117-123	11.8 86
568	Graphene for amino acid biosensing: Theoretical study of the electronic transport. 2017 , 419, 540-545	27
567	Amperometric l-lysine biosensor based on carboxylated multiwalled carbon nanotubes-SnO ₂ nanoparticles-graphene composite. 2017 , 419, 916-923	17
566	Formation of Dibenzopentalene-linking Polymers under the Two-zone CVD and Wet Conditions. 2017 , 46, 1099-1101	5
565	Amperometric sensing of catechol using a glassy carbon electrode modified with ferrocene covalently immobilized on graphene oxide. 2017 , 184, 2925-2932	24

564	Direct electrochemical DNA biosensor based on reduced graphene oxide and metalloporphyrin nanocomposite. 2017 , 251, 40-48	41
563	Material chemistry of graphene oxide-based nanocomposites for theranostic nanomedicine. 2017 , 5, 6451-6470	32
562	Highly sensitive amperometric biosensor based on AP@Hb for the detection of 1-pyrene butyric acid. 2017 , 250, 139-146	2
561	2D Nanoelectronics. 2017 ,	11
560	An overview on enzyme-mimicking nanomaterials for use in electrochemical and optical assays. 2017 , 184, 323-342	143
559	Molecular Dipole-Driven Electronic Structure Modifications of DNA/RNA Nucleobases on Graphene. 2017 , 8, 3087-3094	13
558	Alloyed quaternary/binary core/shell quantum dot-graphene oxide nanocomposite: Preparation, characterization and application as a fluorescence switch ON probe for environmental pollutants. 2017 , 720, 70-78	16
557	Poly(4-vinylphenylboronic acid) functionalized polypyrrole/graphene oxide nanosheets for simultaneous electrochemical determination of catechol and hydroquinone. 2017 , 420, 594-605	33
556	A microfluidic flow-through chip integrated with reduced graphene oxide transistor for influenza virus gene detection. 2017 , 251, 927-933	41
555	Highly sensitive graphene biosensor by monomolecular self-assembly of receptors on graphene surface. 2017 , 110, 203702	13
554	Substrate independent approach for synthesis of graphene platelet networks. 2017 , 28, 255604	2
553	Graphene dispersed cellulose microfibers composite for efficient immobilization of hemoglobin and selective biosensor for detection of hydrogen peroxide. 2017 , 252, 175-182	22
552	Flexible electrochemical biosensors based on graphene nanowalls for the real-time measurement of lactate. 2017 , 28, 315501	28
551	On Monolayer Formation of Pyrenebutyric Acid on Graphene. 2017 , 33, 3588-3593	22
550	Fabrication of hydrophilic graphene film by molecular functionalization. 2017 , 254, 1600524	5
549	Adsorption of gas molecules on Ga-doped graphene and effect of applied electric field: A DFT study. 2017 , 411, 11-17	94
548	A 3D graphene-based biosensor as an early microcystin-LR screening tool in sources of drinking water supply. 2017 , 236, 319-327	46
547	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. 2017 , 27, 1605817	137

546	Electrochemical Studies of Three Dimensional Graphene Foam as an Electrode Material. 2017 , 29, 1506-1512	5
545	Assessment of graphene oxide/MgAl oxide nanocomposite as a non-enzymatic sensor for electrochemical quantification of hydrogen peroxide. 2017 , 74, 255-262	16
544	Modelling of adsorption of textile dyes over multi-walled carbon nanotubes: Equilibrium and kinetic. 2017 , 25, 523-532	27
543	2D Carbon-Based Nanoelectronics. 2017 , 1-114	1
542	A perspective on the statistical mechanics of 2D materials. 2017 , 14, 38-43	11
541	Graphene as initiator/catalyst in polymerization chemistry. 2017 , 67, 48-76	34
540	Frequency response of electrolyte-gated graphene electrodes and transistors. 2017 , 50, 095304	15
539	Sensitivity investigation for the dependence of monolayer and stacking graphene NH ₃ gas sensor. 2017 , 73, 56-61	14
538	Organic Materials for Chemical Sensing. 2017 , 1-1	2
537	Graphene/gold Nanoparticles for Electrochemical Sensing. 2017 , 139-172	2
536	Simulations of a Graphene Nanoflake as a Nanovector To Improve ZnPc Phototherapy Toxicity: From Vacuum to Cell Membrane. 2017 , 9, 37554-37562	16
535	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. 2017 , 27, 1702891	161
534	Fabrication of Nontoxic Reduced Graphene Oxide Protein Nanoframework as Sustained Antimicrobial Coating for Biomedical Application. 2017 , 9, 38255-38269	40
533	Three-dimensional porous graphene nanosheets synthesized on the titanium surface for osteogenic differentiation of rat bone mesenchymal stem cells. 2017 , 125, 227-235	22
532	Versatile Surface Modification Using Polydopamine and Related Polycatecholamines: Chemistry, Structure, and Applications. 2017 , 4, 1601192	183
531	Tannic Acid Modified Electrochemical Biosensor for Glucose Sensing Based on Direct Electrochemistry. 2017 , 29, 2719-2726	26
530	Graphene-based nanomaterials for drug and/or gene delivery, bioimaging, and tissue engineering. 2017 , 22, 1302-1317	182
529	Thermal fluctuations and effective bending stiffness of elastic thin sheets and graphene: A nonlinear analysis. 2017 , 107, 294-319	32

528	Electrochemical characterization of Au/ZnO/PPy/RGO nanocomposite and its application for simultaneous determination of ascorbic acid, epinephrine, and uric acid. 2017 , 801, 466-479	51
527	Osteoconductive Amine-Functionalized Graphene-Poly(methyl methacrylate) Bone Cement Composite with Controlled Exothermic Polymerization. 2017 , 28, 2254-2265	18
526	Graphene Oxide Sheets Combine into Conductive Coatings by Direct Oxidative Electropolymerization. 2017 , 7, 4987	8
525	Construction of electrochemical DNA biosensors for investigation of potential risk chemical and physical agents. 2017 , 148, 1569-1579	7
524	Highly Sensitive Fluorometric Turn-On Detection of Lysozyme Based on a Graphene Oxide/ssDNA Assembly. 2017 , 17, 5431-5436	9
523	Chemical environment dominated Fermi level pinning of a graphene gas sensor. 2017 , 124, 57-63	22
522	Source identification and method for drastic reduction of Fe contamination on wet transferred graphene. 2017 , 639, 36-41	2
521	Interaction Behaviors of Fibrinopeptide-A and Graphene with Different Functional Groups: A Molecular Dynamics Simulation Approach. 2017 , 121, 7907-7915	9
520	Coating Graphene Oxide with Lipid Bilayers Greatly Decreases Its Hemolytic Properties. 2017 , 33, 8181-8191	13
519	Direct electrochemistry and electrocatalysis of myoglobin immobilized in calcium alginate/graphene microsphere films. 2017 , 9, 4873-4881	7
518	A facile molecularly imprinted electrochemical sensor based on graphene: application to the selective determination of thiamethoxam in grain. 2017 , 7, 38884-38894	14
517	Rapid and Sensitive SERS Detection of Bisphenol A Using Self-assembled Graphitic Substrates. 2017 , 7, 16698	14
516	An Enhanced Platform to Analyse Low-Affinity Amyloid β Protein by Integration of Electrical Detection and Preconcentrator. 2017 , 7, 14303	15
515	CVD graphene incorporating polymerized L-cysteine as an electrochemical sensing platform for simultaneous determination of dopamine and ascorbic acid. 2017 , 9, 6689-6697	14
514	Development of an aptasensor using reduced graphene oxide chitosan complex to detect Salmonella. 2017 , 806, 88-96	46
513	Hybrid graphene oxide/DAB-Am-16 dendrimer: Preparation, characterization chemical reactivity and their electrocatalytic detection of L-Dopamine. 2017 , 71, 33-41	12
512	Carbon nanostructures as immobilization platform for DNA: A review on current progress in electrochemical DNA sensors. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 226-237	11.8 68
511	Graphdiyne Materials as Nanotransducer for in Vivo Photoacoustic Imaging and Photothermal Therapy of Tumor. 2017 , 29, 6087-6094	115

510	Nanostructured materials and nanoparticles for point of care (POC) medical biosensors. 2017 , 229-254	12
509	Date Fruits-Assisted Synthesis and Biocompatibility Assessment of Nickel Oxide Nanoparticles Anchored onto Graphene Sheets for Biomedical Applications. 2017 , 181, 725-734	9
508	Trends in Bioelectroanalysis. 2017 ,	2
507	Application of Nanocrystalline Graphite-like Pyrolytic Carbon Film Electrode in the Electroanalytical Determination of Famotidine. 2017 , 29, 756-764	2
506	Functionalized multi-wall carbon nanotubes as an efficient additive for electrochemical DNA sensor. 2017 , 239, 652-659	33
505	Understanding the colloidal dispersion stability of 1D and 2D materials: Perspectives from molecular simulations and theoretical modeling. 2017 , 244, 36-53	28
504	Point of care testing: The impact of nanotechnology. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 373-387	11.8 227
503	Pt nanoparticles/reduced graphene oxide nanosheets as a sensing platform: Application to determination of droxidopa in presence of phenobarbital. 2017 , 240, 255-263	50
502	The Effect of Molecular Adsorption on Electro-Optical Properties of Graphene-Based Sensors. 2017 , 12, 1193-1198	5
501	Interactions between avidin and graphene for development of a biosensing platform. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 326-333	11.8 9
500	Electrodeposited reduced graphene oxide incorporating polymerization of l-lysine on electrode surface and its application in simultaneous electrochemical determination of ascorbic acid, dopamine and uric acid. 2017 , 70, 241-249	71
499	Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 886-898	11.8 133
498	Layer-by-Layer Assembly for Graphene-Based Multilayer Nanocomposites: The Field Manual. 2017 , 29, 69-79	46
497	Magnetic nanoparticles embedded with graphene quantum dots and multiwalled carbon nanotubes as a sensing platform for electrochemical detection of progesterone. 2017 , 238, 346-356	86
496	Facile One-Pot Green Synthesis and Antibacterial Activities of GO/Ag Nanocomposites. 2017 , 30, 36-44	11
495	Amperometric Determination of Maltol using a Cobalt Oxide-Assembled MCM-41 Composite-Modified Glassy Carbon Electrode. 2017 , 50, 1435-1447	2
494	Mechanical Properties of Graphene-Rubber Nanocomposites. 2017 , 267, 012009	2
493	Carbon-Based Nanomaterials. 2017 , 233-249	19

492	Comparative study between the fracture stress of poly- and single-crystalline graphene using a novel nanoelectromechanical system structure. 2017 , 12, 907-912	5
491	5. Chemical Functionalization of Graphene Family Members. 2017 ,	1
490	. 2017 ,	22
489	The Growing Influence of Nanotechnology in Our Lives. 2017 , 1-20	4
488	Current Technical Approaches for the Early Detection of Foodborne Pathogens: Challenges and Opportunities. 2017 , 18,	38
487	Development of a Novel Electrochemical Sensor for Determination of Matrine in <i>Sophora flavescens</i> . 2017 , 22,	7
486	Poly(lactic acid) Composites Containing Carbon-Based Nanomaterials: A Review. 2017 , 9,	84
485	Graphene-Based Long-Period Fiber Grating Surface Plasmon Resonance Sensor for High-Sensitivity Gas Sensing. 2016 , 17,	50
484	Graphene Field Effect Transistors for Biomedical Applications: Current Status and Future Prospects. 2017 , 7,	41
483	Nanomaterial-based biosensors for biological detections. 2017 , Volume 3, 19-29	34
482	Nanomaterials for Electrochemical Immunosensing. 2017 , 17,	28
481	Biosensors for detection mycotoxins and pathogenic bacteria in food. 2017 , 35-92	5
480	Chemical Functionalization of Graphene Family Members. 2017 , 2,	9
479	A Label-Free and Ultrasensitive Immunosensor for Detection of Human Chorionic Gonadotrophin Based on Graphene FETs. 2017 , 7,	9
478	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. 2018 , 130, 2924-2928	15
477	Polarity-Induced Surface Recognition and Self-Assembly of Noncanonical DNA Nucleobases on h-BN Monolayer. 2018 , 122, 3915-3925	11
476	Preparing cuprous oxide nanomaterials by electrochemical method for non-enzymatic glucose biosensor. 2018 , 29, 205501	22
475	Nonenzymatic electrochemical sensor based on imidazole-functionalized graphene oxide for progesterone detection. <i>Biosensors and Bioelectronics</i> , 2018 , 112, 108-113	11.8 48

474	DNA-induced synthesis of biomimetic enzyme for sensitive detection of superoxide anions released from live cell.. 2018 , 8, 12354-12359	3
473	Rapid detection of Salmonella spp. using magnetic resonance. 2018 , 38, e12473	2
472	A base-stable metal-organic framework for sensitive and non-enzymatic electrochemical detection of hydrogen peroxide. 2018 , 274, 49-56	58
471	A highly sensitive electrochemical biosensor for phenol derivatives using a graphene oxide-modified tyrosinase electrode. 2018 , 122, 174-182	43
470	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. 2018 , 86, 173-197	163
469	Impact of graphene-based nanomaterials (GBNMs) on the structural and functional conformations of hepcidin peptide. 2018 , 32, 487-496	4
468	Detection and quantification of phenol in liquid and gas phases using a clay/dye composite. 2018 , 62, 284-290	7
467	Electrochemically deposited dendritic poly (methyl orange) nanofilm on metal-carbon-polymer nanocomposite: A novel non-enzymatic electrochemical biosensor for cholesterol. 2018 , 814, 134-143	36
466	Constructing sensitive SERS substrate with a sandwich structure separated by single layer graphene. 2018 , 263, 634-642	14
465	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. 2018 , 57, 2874-2878	65
464	Polyaniline Nanocomposite Materials for Biosensor Designing. 2018 , 113-135	3
463	Electron transfer in biologically important systems: Polycyclic aromatic hydrocarbons, DNA bases and free radicals. 2018 , 17, 1850008	
462	Dual nanoenzyme modified microelectrode based on carbon fiber coated with AuPd alloy nanoparticles decorated graphene quantum dots assembly for electrochemical detection in clinic cancer samples. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 153-162	11.8 60
461	Measuring and Manipulating the Adhesion of Graphene. 2018 , 18, 449-454	20
460	Nanotechnology, Food Security and Water Treatment. 2018 ,	5
459	Physical, Chemical and Biochemical Biosensors to Detect Pathogens. 2018 , 53-86	1
458	Protein bioelectronics: a review of what we do and do not know. 2018 , 81, 026601	123
457	Biosensor-Based Techniques. 2018 , 361-384	1

- 456 Controlling the charge transfer flow at the graphene/pyrene-triloltri-acetic acid interface. **2018**, 6, 5046-5054 14
- 455 Graphene-Reinforced Metal and Polymer Matrix Composites. **2018**, 70, 829-836 26
- 454 Facile preparation of surfactant-free Au NPs/RGO/Ni foam for degradation of 4-nitrophenol and detection of hydrogen peroxide. **2018**, 29, 235706 3
- 453 Fabrication of thiazole derivatives functionalized graphene decorated with fluorine, chlorine and iodine@SnO₂ nanoparticles for highly sensitive detection of heavy metal ions. **2018**, 546, 153-162 16
- 452 Giant Infrared Sensitivity of Surface Plasmon Resonance-Based Refractive Index Sensor. **2018**, 13, 1183-1190 11
- 451 A label-free electrochemical immunosensor based on multi-functionalized graphene oxide for ultrasensitive detection of microcystin-LR. **2018**, 72, 71-79 7
- 450 Label-free glucose biosensor based on enzymatic graphene oxide-functionalized tilted fiber grating. **2018**, 254, 1033-1039 87
- 449 Advances in sensing and biosensing of bisphenols: A review. **2018**, 998, 1-27 43
- 448 Magnetic properties of cellulose-grafted reduced graphite oxide decorated with Ni nanoparticles. **2018**, 58, 1630-1635 4
- 447 Pt nanoparticles supported on nitrogen-doped porous graphene for sensitive detection of Tadalafil. **2018**, 512, 379-388 20
- 446 Self-Assembled Molecular Films of Alkanethiols on Graphene for Heavy Metal Sensing. **2018**, 122, 474-480 11
- 445 Sensitive detection of sulfate in PM_{2.5} via gold nanoparticles/poly-L-lysine/graphene composite film based arylsulfatase-inhibition biosensor. **2018**, 257, 478-487
- 444 Raman study on the effects of annealing atmosphere of patterned graphene. **2018**, 49, 183-188 3
- 443 A novel polymer-based genosensor for the detection and quantification of *Streptococcus pneumoniae* in genomic DNA sample. **2018**, 58, 1308-1314 4
- 442 Graphene oxides/multi-walled carbon nanotubes hybrid-modified carbon electrodes for fast and sensitive voltammetric determination of the anticancer drug 5-fluorouracil in spiked human plasma samples. **2018**, 72, 431-439 13
- 441 Environmentally Sustainable Fabrication of Cu_{1.94}S-rGO Composite for Dual Environmental Application: Visible-Light-Active Photocatalyst and Room-Temperature Phenol Sensor. **2018**, 6, 835-845 20
- 440 Minocycline hydrochloride loaded on titanium by graphene oxide: an excellent antibacterial platform with the synergistic effect of contact-killing and release-killing. **2018**, 6, 304-313 34
- 439 Graphene: A versatile platform for nanotheranostics and tissue engineering. **2018**, 91, 24-69 98

438	Electrochemical biosensors for Salmonella: State of the art and challenges in food safety assessment. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 667-682	11.8	89
437	Free-standing Plastic electrodes: Formulation, electrochemical characterization and application to dopamine detection. 2018 , 255, 1087-1096		14
436	Graphene materials as a superior platform for advanced sensing strategies against gaseous ammonia. 2018 , 6, 22391-22410		39
435	. 2018 ,		7
434	Volatile Aroma Sensing Performance of High Quality Pristine Graphene, obtained via a facile Exfoliation technique. 2018 , 5, 9888-9891		1
433	. 2018 ,		
432	Topographical Features of Graphene-Oxide-Functionalized Substrates Modulate Cancer and Healthy Cell Adhesion Based on the Cell Tissue of Origin. 2018 , 10, 41978-41985		15
431	Detection of Alpha-Fetoprotein in Hepatocellular Carcinoma Patient Plasma with Graphene Field-Effect Transistor. 2018 , 18,		12
430	Review of Graphene Growth From a Solid Carbon Source by Pulsed Laser Deposition (PLD). 2018 , 6, 572		45
429	Computational explanation for interaction between amino acid and nitrogen-containing graphene. 2018 , 137, 1		2
428	Graphene nanosheets modified with curcumin-decorated manganese dioxide for ultrasensitive potentiometric sensing of mercury(II), fluoride and cyanide. 2018 , 185, 529		13
427	Assessing the Charge Transfer at the Cytochrome c553/Graphene Interface: A Multiscale Investigation. 2018 , 122, 29405-29413		7
426	Green synthesis of reduced graphene oxide using green tea extract. 2018 ,		12
425	Recent advances in graphene-based biosensor technology with applications in life sciences. 2018 , 16, 75		204
424	Current Advances in Biosensor Design and Fabrication. 2018 , 1-25		9
423	Graphene/transition metal dichalcogenides hybrid supercapacitor electrode: status, challenges, and perspectives. 2018 , 29, 502001		30
422	Graphene Oxide-Based Biosensors. 2018 ,		3
421	Laser-Induced Carbon-Based Smart Flexible Sensor Array for Multiflavors Detection. 2018 , 10, 34005-34012		31

420	The role of hydrogen bonding in interaction energy at the interface of conductive polymers and modified graphene-based nanosheets: A reactive molecular dynamics study. 2018 , 155, 499-523	5
419	Graphene-based Nano-Carrier modifications for gene delivery applications. 2018 , 140, 569-591	45
418	Single-step detection of norovirus tuning localized surface plasmon resonance-induced optical signal between gold nanoparticles and quantum dots. <i>Biosensors and Bioelectronics</i> , 2018 , 122, 16-24	11.8 39
417	An anti-passivation ink for the preparation of electrodes for use in electrochemical immunoassays. 2018 , 19, 726-734	2
416	Interlocking Enzymes in Graphene-Coated Cellulose Paper for Increased Enzymatic Efficiency. 2018 , 609, 1-22	1
415	Energy Transfer from Photosystem I to Thermally Reduced Graphene Oxide. 2018 , 11,	2
414	Orientation of photosystem I on graphene through cytochrome c553 leads to improvement in photocurrent generation. 2018 , 6, 18615-18626	27
413	Graphene alters the properties of voltage-gated Ca ²⁺ channels in rat cardiomyocytes. 2018 , 4, 065004	0
412	Few-layer Ti ₃ C ₂ T _x MXene: A promising surface plasmon resonance biosensing material to enhance the sensitivity. 2018 , 277, 210-215	95
411	Simulations of Propane and Butane Gas Sensor Based on Pristine Armchair Graphene Nanoribbon. 2018 , 362, 012001	2
410	Nanomaterials. 2018 , 5-78	
409	Biomedical Applications of Graphene Nanomaterials and Beyond. 2018 , 4, 2653-2703	123
408	Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018 , 169-225	5
407	Graphene and 2D-Like Nanomaterials: Different Biofunctionalization Pathways for Electrochemical Biosensor Development. 2018 , 1-35	6
406	Graphene and Graphene-Based Materials in Biomedical Science. 2018 , 35, 1800105	14
405	Tunable Electrochemical Approach for Reduction of Graphene Oxide: Taguchi-Assisted Chemical and Structural Optimization. 2018 , 165, E429-E438	6
404	Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality Monitoring. 2018 , 267-306	10
403	Tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence ethanol biosensor based on ionic liquid doped titania-Nafion composite film. 2018 , 142, 62-69	10

402	Construction of graphene oxide sheets based modified glassy carbon electrode (GO/GCE) for the highly sensitive detection of nitrobenzene. 2018 , 5, 075601	17
401	Immobilization of a Mesophilic Lipase on Graphene Oxide: Stability, Activity, and Reusability Insights. 2018 , 609, 247-272	11
400	Metal-organic framework-based molecularly imprinted polymer as a high sensitive and selective hybrid for the determination of dopamine in injections and human serum samples. <i>Biosensors and Bioelectronics</i> , 2018 , 118, 129-136	11.8 56
399	A novel free-standing CVD graphene platform electrode modified with AuPt hybrid nanoparticles and l-cysteine for the selective determination of epinephrine. 2018 , 823, 678-687	8
398	Encapsulation of Microorganisms, Enzymes, and Redox Mediators in Graphene Oxide and Reduced Graphene Oxide. 2018 , 609, 197-219	3
397	Preparation of Molecularly Imprinted Microspheres as Biomimetic Recognition Material for In Situ Adsorption and Selective Chemiluminescence Determination of Bisphenol A. 2018 , 10,	8
396	Current Technologies of Electrochemical Immunosensors: Perspective on Signal Amplification. 2018 , 18,	107
395	Nanobiodevices for electrochemical biosensing of pharmaceuticals. 2018 , 291-330	3
394	Fabrication of graphene film composite electrochemical biosensor as a pre-screening algal toxin detection tool in the event of water contamination. 2018 , 8, 10686	23
393	Neurite Guidance on Laser-Scribed Reduced Graphene Oxide. 2018 , 18, 7421-7427	17
392	Low-Temperature Reduction of Graphene Oxide: Electrical Conductance and Scanning Kelvin Probe Force Microscopy. 2018 , 13, 139	53
391	ALS genosensing using DNA-hybridization electrochemical biosensor based on label-free immobilization of ssDNA on Sm2O3 NPs-rGO/PANI composite. 2018 , 275, 432-438	16
390	Synthesis, Characterization, and Applications of Nanographene-Armored Enzymes. 2018 , 609, 83-142	8
389	Lipases and Phospholipases. 2018 ,	6
388	Intensive EELS study of epoxy composites reinforced by graphene-based nanofillers. 2018 , 135, 46748	2
387	Lipase, Phospholipase, and Esterase Biosensors (Review). 2018 , 1835, 391-425	14
386	Advances in enzyme bioelectrochemistry. 2018 , 90, 825-857	21
385	Graphene and Graphene-Based Nanomaterials for DNA Detection: A Review. 2018 , 23,	42

384	Nanosized-Zinc-Mediated Self-Gelation of Graphene Oxide under Ambient Conditions. 2018 , 83, 947-955	1
383	Colorimetric Bisphenol-A Detection With a Portable Smartphone-Based Spectrometer. 2018 , 18, 5948-5955	12
382	Three-dimensional kenaf stem-derived macroporous carbon/reduced graphene oxide/polyaniline integrated electrode for supercapacitors. 2018 , 281, 638-645	15
381	Graphene Doped Mn ₂ O ₃ Nanofibers as a Facile Electroanalytical DNA Point Mutation Detection Platform for Early Diagnosis of Breast/Ovarian Cancer. 2018 , 30, 2110-2120	18
380	Maximum reflectance and transmittance of films coated with gapped graphene in the context of the Dirac model. 2018 , 97,	3
379	Graphene and graphene oxide as nanomaterials for medicine and biology application. 2018 , 8, 123-137	201
378	Molecular Sensors for NMR-Based Detection. 2019 , 119, 195-230	48
377	Facile Fabrication of Hierarchical rGO/PANI@PtNi Nanocomposite via Microwave-Assisted Treatment for Non-Enzymatic Detection of Hydrogen Peroxide. 2019 , 9,	7
376	Tuning the electronic and magnetic properties of Mn-doped graphene by gas adsorption and effect of external electric field: First-principles study. 2019 , 33, 1950166	3
375	The convergence of forefront technologies in the design of laccase-based biosensors [An update. 2019 , 119, 115615	23
374	Green Synthesis and Layer-by-Layer Assembly of Amino-Functionalized Graphene Oxide/Carboxylic Surface Modified Trimetallic Nanoparticles Nanocomposite for Label-Free Electrochemical Biosensing. 2019 , 166, B983-B993	17
373	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. 2019 , 271, 101991	57
372	Two-Dimensional Graphene Family Material: Assembly, Biocompatibility and Sensors Applications. 2019 , 19,	18
371	Raman study of the substrate influence on graphene synthesis using a solid carbon source via rapid thermal annealing. 2019 , 50, 1630-1641	17
370	New Micro- and Nanotechnologies for Electrochemical Biosensor Development. 2019 , 279-313	1
369	Analyte-induced disruption of luminescence quenching (AIDLuQ) for femtomolar detection of biomarkers. 2019 , 11, 14010-14015	3
368	Probing DNA nucleobases with diamond (111) surfaces. 2019 , 3, 095007	
367	Biological, Biomedical, and Medical Applications of Graphene and Graphene-Based Materials (G-bMs). 2019 , 1-41	1

- 366 Facile fabrication of biosensors based on Cu nanoparticles modified as-grown CVD graphene for non-enzymatic glucose sensing. **2019**, 853, 113527 11
- 365 Graphene-Based Biosensors in Agro-Defense: Food Safety and Animal Health Diagnosis. **2019**, 29-57 1
- 364 Screen-Printed Carbon Electrodes Modified with Graphene Oxide for the Design of a Reagent-Free NAD-Dependent Biosensor Array. **2019**, 91, 15293-15299 15
- 363 Graphene Molecules as Platforms for SERS Detection: A Future Perspective. **2019**, 429-464
- 362 Self-Assembled Thin Films of Graphene Materials for Sensors. **2019**, 569-602
- 361 Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping. **2019**, 663-682 2
- 360 Graphene and Graphene Composites-Modified Electrodes Surfaces for Selective Sensing of Dopamine in the Presence of Ascorbic Acid and Uric Acid. **2019**, 683-706 1
- 359 Application of Porous Graphene in Electrochemical Sensors and Biosensors. **2019**, 117-142
- 358 Reduced Graphene Oxide for Biosensing and Electrocatalytic Applications. **2019**, 143-179
- 357 Functionalized Graphene Nanomaterials as Biocatalysts: Recent Developments and Future Prospects. **2019**, 301-323
- 356 Electrochemical Immunosensors. **2019**, 343-369 3
- 355 Application of Nanomaterials in Plant Disease Diagnosis and Management. **2019**, 19-33 1
- 354 Viability of Neural Cells on 3D Printed Graphene Bioelectronics. **2019**, 9, 16
- 353 Atomistic Study of Mechanical Behaviors of Carbon Honeycombs. **2019**, 9, 9
- 352 Graphene-based chiral liquid crystal materials for optical applications. **2019**, 7, 2146-2171 41
- 351 Electrochemical sensor based on a three dimensional nanostructured MoS₂ nanosphere-PANI/reduced graphene oxide composite for simultaneous detection of ascorbic acid, dopamine, and uric acid.. **2019**, 9, 2997-3003 47
- 350 Biomarkers-based Biosensing and Bioimaging with Graphene for Cancer Diagnosis. **2019**, 9, 34
- 349 Suppressing Non-Specific Binding of Proteins onto Electrode Surfaces in the Development of Electrochemical Immunosensors. **2019**, 9, 52

348	All-Armchair Graphene Nanoribbon Field-Effect Uridine Diphosphate Glucose Sensor: First-Principles In-Silico Design and Characterization. 2019 , 19, 3975-3983	10
347	Electronic Applications of Functionalized Graphene Nanocomposites. 2019 , 245-263	10
346	Photoelectrochemical and Non-Enzymatic Glucose Sensor Based on Modified Fehling's Test by Using Ti/TiO ₂ NTs-rGO-Cu ₂ O Electrode. 2019 , 166, B728-B734	14
345	Graphene Optical Biosensors. 2019 , 20,	39
344	Engineered Nanomaterial Assisted Signal-amplification Strategies for Enhancing Analytical Performance of Electrochemical Biosensors. 2019 , 31, 1615-1629	65
343	Advances in biosensors for the detection of ochratoxin A: Bio-receptors, nanomaterials, and their applications. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111418	11.8 67
342	Highly sensitive AlGaIn/GaN HEMT biosensors using an ethanolamine modification strategy for bioassay applications.. 2019 , 9, 15341-15349	13
341	Acoustic Wave Catalyzed Urea Detection Utilizing a Pulsatile Microdroplet Sensor. 2019 ,	2
340	Recent advances in electrochemical nonenzymatic hydrogen peroxide sensors based on nanomaterials: a review. 2019 , 54, 12319-12357	62
339	An electrochemical paper based nano-genosensor modified with reduced graphene oxide-gold nanostructure for determination of glycated hemoglobin in blood. 2019 , 1078, 42-52	35
338	A study on 3D graphene synthesized directly on Glass/FTO substrates: Its Raman mapping and optical properties. 2019 , 45, 16829-16835	12
337	Impact of oxygen plasma treatment on carrier transport and molecular adsorption in graphene. 2019 , 11, 11145-11151	13
336	Towards ultra-wide operation range and high sensitivity: Graphene film based pressure sensors for fingertips. <i>Biosensors and Bioelectronics</i> , 2019 , 139, 111296	11.8 18
335	Layered Crystalline and Amorphous Platinum Disulfide (PtS ₂): Contrasting Electrochemistry. 2019 , 25, 7330-7338	9
334	Graphene and Its Derivatives as Biosensing Platform for Healthcare Applications. 2019 , 187-215	3
333	Biosensors for monitoring pharmaceutical nanocontaminants and drug resistant bacteria in surface water, subsurface water and wastewater effluent for reuse. 2019 , 525-559	
332	Novel synthesis of LaNiSbWO ₄ -G-PANI Designed as Quaternary Type Composite for High Photocatalytic Performance of Anionic Dye and Trihydroxybenzoic acid under Visible-Light. 2019 , 126, 348-355	10
331	Miniature Fiber Optic Acoustic Pressure Sensors With Air-Backed Graphene Diaphragms. 2019 , 141,	7

330	High-Throughput 2D Heteroatom Graphene Bioelectronic Nanosculpture: A Combined Experimental and Theoretical Study. 2019 , 11, 11238-11250	5
329	Graphene Nanomaterials-Based Radio-Frequency/Microwave Biosensors for Biomaterials Detection. 2019 , 12,	12
328	Study of the fracturing behavior of thermoset polymer nanocomposites via cohesive zone modeling. 2019 , 220, 127-147	11
327	Properties of Anti-CA125 antibody layers on screen-printed carbon electrodes modified by gold and platinum nanostructures. 2019 , 306, 299-306	15
326	Recent Advances in Graphene Homogeneous p _n Junction for Optoelectronics. 2019 , 4, 1900007	11
325	Yttrium Hexacyanoferrate Microflowers on Freestanding Three-Dimensional Graphene Substrates for Ascorbic Acid Detection. 2019 , 2, 2212-2221	23
324	Optical Refractive Index Sensors with Plasmonic and Photonic Structures: Promising and Inconvenient Truth. 2019 , 7, 1801433	156
323	Single Layer 2D Crystals for Electrochemical Applications of Ion Exchange Membranes and Hydrogen Evolution Catalysts. 2019 , 6, 1801838	12
322	Bioelectronics and Interfaces Using Monolayer Graphene. 2019 , 6, 31-59	32
321	Ultrathin Functional Polymer Modified Graphene for Enhanced Enzymatic Electrochemical Sensing. 2019 , 9,	9
320	Nanosensors for diagnosis with optical, electric and mechanical transducers.. 2019 , 9, 6793-6803	66
319	Advanced Functional Structure-Based Sensing and Imaging Strategies for Cancer Detection: Possibilities, Opportunities, Challenges, and Prospects. 2019 , 29, 1807859	27
318	Photochemical reduction of carbonyl group of polyimide by 450 nm diode laser. 2019 , 1371, 012003	
317	Chemistry, Biology, and Surface Engineering of Sustainable Nanostructural Materials. 2019 , 25-52	
316	Reflectance of graphene-coated dielectric plates in the framework of Dirac model: joint action of energy gap and chemical potential. 2019 , 31, 505003	2
315	Highly electro-conductive graphene-decorated PANI-BiVO ₄ polymer-semiconductor nanocomposite with outstanding photocatalytic performance. 2019 , 251, 114469	13
314	Stabilization of aqueous graphene dispersions utilizing a biocompatible dispersant: a molecular dynamics study. 2019 , 21, 24007-24016	7
313	Surface charge induced tuning of electrical properties of CVD assisted graphene and functionalized graphene sheets. 2019 , 35, 151-158	13

312	A promising voltammetric biosensor based on glutamate dehydrogenase/FeO/graphene/chitosan nanobiocomposite for sensitive ammonium determination in PM. 2019 , 197, 622-630	18
311	Enhanced Acetone-Sensing Properties of PEI Thin Film by GO-NH ₂ Functional Groups Modification at Room Temperature. 2019 , 5,	11
310	Fabrication of a low background signal glucose biosensor with 3D network materials as the electrocatalyst. 2019 , 567, 63-71	10
309	Silver Nanostructures on Graphene Oxide as the Substrate for Surface-Enhanced Raman Scattering (SERS). 2019 , 52, 1477-1486	1
308	Bio-Reduced Graphene Oxide as a Nanoscale Antimicrobial Coating for Medical Devices. 2019 , 4, 387-397	25
307	Disposable carbon nanotube scaffold films for fast and reliable assessment of total acid glycoprotein in human serum using adsorptive transfer stripping square wave voltammetry. 2019 , 411, 1887-1894	4
306	Grinding of nano-graphite inkjet inks for application in organic solar cells. 2019 , 30, 045601	6
305	Nanobiosensors for Biomedical Application. 2019 , 1-23	3
304	A smart nanosensor for the detection of human immunodeficiency virus and associated cardiovascular and arthritis diseases using functionalized graphene-based transistors. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 792-799	11.8 73
303	Performance study of surface plasmon resonance and lossy mode resonance based fiber optic sensors utilizing silver and indium oxide layers: An experimental investigation. 2019 , 112, 420-425	8
302	A molecular dynamics based study to estimate the point defects formation energies in graphene containing STW defects. 2019 , 6, 015606	26
301	Label-free paper-based electrochemical impedance immunosensor for human interferon gamma detection. 2019 , 279, 298-304	64
300	3D graphene/copper oxide nano-flowers based acetylcholinesterase biosensor for sensitive detection of organophosphate pesticides. 2019 , 279, 95-101	63
299	Adsorption of trans- and cis-Resveratrol on Graphene. 2019 , 256, 1800335	
298	Recycling Graphene from Supercapacitor Electrodes as Reinforcing Filler for Epoxy Resins. 2019 , 10, 215-221	7
297	Extraction of Cellulose Nanocrystals with Structure I and II and Their Applications for Reduction of Graphene Oxide and Nanocomposite Elaboration. 2019 , 10, 1913-1927	18
296	Electrochemical DNA biosensors: a review. 2019 , 39, 34-50	25
295	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. 2020 , 3, 395-430	39

294	A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. 2020 , 45, 134-170	26
293	3D and 2D cell models in a novel microfluidic tool for evaluation of highly chemically and microbiologically pure graphene oxide (GO) as an effective drug carrier. 2020 , 302, 127064	5
292	An amperometric biosensor for specific detection of glycated hemoglobin based on recombinant engineered fructosyl peptide oxidase. 2020 , 142, 855-865	8
291	Graphene oxide-functionalized long period fiber grating for ultrafast label-free glucose biosensor. 2020 , 107, 110329	26
290	Ligand nanovectorization using graphene to target cellular death receptors of cancer cell. 2020 , 88, 94-105	3
289	Recent Progress on Uric Acid Detection: A Review. 2020 , 50, 359-375	35
288	A novel biosensor with the use of polypyrrole/poly(sodium-4-styrenesulphonate) as a dopant in the determination of glucose. 2020 , 74, 799-808	7
287	Simple and Cost-Effective Electrochemical Approach for Monitoring of Vitamin K in Green Vegetables. 2020 , 7, 155-162	7
286	Two-Dimensional Layered Nanomaterial-Based Electrochemical Biosensors for Detecting Microbial Toxins. 2019 , 12,	17
285	Aptamer-based cocaine assay using a nanohybrid composed of ZnS/AgSe quantum dots, graphene oxide and gold nanoparticles as a fluorescent probe. 2020 , 187, 104	14
284	Physical properties and device applications of graphene oxide. 2020 , 15, 1	56
283	A laccase based biosensor on AuNPs-MoS modified glassy carbon electrode for catechol detection. 2020 , 186, 110683	29
282	Electrochemiluminescence solid-state imprinted sensor based on graphene/CdTe@ZnS quantum dots as luminescent probes for low-cost ultrasensing of diethylstilbestrol. 2020 , 306, 127563	18
281	A review on peptide functionalized graphene derivatives as nanotools for biosensing. 2019 , 187, 27	20
280	A flexible CVD graphene platform electrode modified with l-aspartic acid for the simultaneous determination of acetaminophen, epinephrine and tyrosine. 2020 , 856, 113737	10
279	Carbonized silk fabric-based flexible organic electrochemical transistors for highly sensitive and selective dopamine detection. 2020 , 304, 127414	22
278	Performance-Enhanced Non-Enzymatic Glucose Sensor Based on Graphene-Heterostructure. 2019 , 20,	9
277	Novel Biocompatible Amino Acids-Functionalized Three-dimensional Graphene Foams: As the Attractive and Promising Cisplatin Carriers for Sustained Release Goals. 2020 , 589, 119857	5

276	Field-effect transistors made of graphene grown on recycled copper foils. 2020 , 256, 123665	3
275	Stochastic investigation of graphene structures with efficient polynomial models. 2020 , 39, 611-622	
274	Polyoxometalate-like sub-nanometer molybdenum(vi)-oxo clusters for sensitive, selective and stable HO sensing. 2020 , 56, 9465-9468	5
273	A Review: Electrochemical Biosensors for Oral Cancer. 2020 , 8, 54	16
272	From chromic switchable hydrazones to smart materials. 2020 , 254, 123456	44
271	Nanomaterials as Toxic Gas Sensors and Biosensors. 2020 , 389-430	2
270	Effect of spatial distribution of nanopores on mechanical properties of mono layer graphene. 2020 , 872, 012187	0
269	Sonochemical synthesis of PANI-BiVO ₄ -GO semiconductor nanocomposite highly efficient visible-light photocatalytic performance. 2020 , 28, 945-958	2
268	Recent advances in chemical functionalisation of graphene and sensing applications. 2020 , 4, 1	1
267	Two-Dimensional Nanostructures for Advanced Applications. 2020 , 1-31	1
266	Human virus detection with graphene-based materials. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112436	11.8 74
265	Laser induced graphene for biosensors. 2020 , 25, e00205	19
264	Anti-Angiogenic and Anti-Proliferative Graphene Oxide Nanosheets for Tumor Cell Therapy. 2020 , 21,	9
263	Detection of food spoilage and adulteration by novel nanomaterial-based sensors. 2020 , 286, 102297	16
262	A Flexible Electrochemical Sensor Based on L-Arginine Modified Chemical Vapor Deposition Graphene Platform Electrode for Selective Determination of Xanthine. 2020 , 48, 1149-1159	1
261	Theranostic Nanoplatfoms of Thiolated Reduced Graphene Oxide Nanosheets and Gold Nanoparticles. 2020 , 10, 5529	7
260	Progress in Optomechatronics. 2020 ,	
259	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. 2020 , 3, 32	7

258 Advances in Nanotechnology and Its Applications. **2020**,

257 Preface. **2020**, ix-ix

256 2D Nanomaterials with Hierarchical Architecture for Flexible Sensor Application. **2020**, 93-116 2

255 The Applications of 2D Nanomaterials in Energy-Related Process. **2020**, 219-251 0

254 Nanocomposites Based on Biopolymer for Biomedical and Antibacterial Applications. **2020**, 375-391 1

253 2D Materials for Supercapacitor and Supercapattery Applications. **2020**, 33-47 1

252 Recent Advancements and Key Challenges of Graphene for Flexible Supercapacitors. **2020**, 49-77 4

251 2D Nanostructured Materials for High Performance Electrochemical Supercapacitors. **2020**, 79-92 2

250 Application of 2D Nanomaterials as Fluorescent Biosensors. **2020**, 117-141 4

249 Functionalized Two-Dimensional Nanomaterials for Biosensing and Bioimaging. **2020**, 143-165 0

248 Electrocatalysts Derived from 2D Mxenes for Oxygen Reduction and Hydrogen Evolution Reactions. **2020**, 167-189

247 Application of 2D Graphene-Based Nanomaterials for Pollutant Removal from Advanced Water and Wastewater Treatment Processes. **2020**, 191-217 2

246 State-of-the-Art Applications of 2D Nanomaterials in Energy Storage. **2020**, 253-293 3

245 2D Layered Structure of Bismuth Oxyhalides for Advanced Applications. **2020**, 295-315 1

244 Cutting Edge Materials of Two-Dimensional Platinum Diselenide. **2020**, 317-345

243 Metal and Metal Matrix 2D Nanomaterial Composites: Attractive Alternatives for EMI Shielding Applications. **2020**, 347-373 1

242 Synthesis of Sustainable Carbon Nanospheres from Natural Bioresources and Their Diverse Applications. **2020**, 393-420 2

241 Self-assembled perylenetetracarboxylic acid-reduced graphene oxide film for high-sensitive impedimetric determination of thrombin. **2020**, 402, 126491 2

240	Self-Powered 2D Material-Based pH Sensor and Photodetector Driven by Monolayer MoSe ₂ Piezoelectric Nanogenerator. 2020 , 12, 58132-58139	20
239	Graphene Oxide Incorporated Polysulfone Substrate for Flat Sheet Thin Film Nanocomposite Pressure Retarded Osmosis Membrane. 2020 , 10,	9
238	Recent Advances in the Fabrication and Application of Graphene Microfluidic Sensors. 2020 , 11,	11
237	Nanobiosensors as new diagnostic tools for SARS, MERS and COVID-19: from past to perspectives. 2020 , 187, 639	48
236	Investigation of Thermal Annealing Effect on Bilayer Graphene by Isotope-Labeling-Assisted Raman Spectroscopy. 2020 , 257, 2000250	
235	Development of an Ultra-Sensitive and Flexible Piezoresistive Flow Sensor Using Vertical Graphene Nanosheets. 2020 , 12, 109	40
234	Oligonucleotide Detection and Optical Measurement with Graphene Oxide in the Presence of Bovine Serum Albumin Enabled by Use of Surfactants and Salts. 2020 , 10, 420	4
233	Polymers and Plastics Modified Electrodes for Biosensors: A Review. 2020 , 25,	10
232	High-efficient of graphene nanocomposite: Application to rapidly simultaneous identification and quantitation of fat-soluble vitamins in different matrix samples. 2020 , 873, 114361	3
231	Clinical detection of neurodegenerative blood biomarkers using graphene immunosensor. 2020 , 168, 144-162	12
230	A novel, portable Escherichia coli bacteria sensor using graphene as sensing material. 2020 , 254, 123459	4
229	Characterization of the impact of nanoparticles on micro strain in 2D graphene synthesized by arc discharge plasma. 2020 , 25, 101285	0
228	A modified nanocomposite biosensor for quantitative l-glutamate detection in beef. 2020 , 168, 108185	3
227	Anchoring and stabilization of colloidal PdNPs on exfoliated bis-thiourea modified graphene oxide layers with super catalytic activity in water and PEG. 2020 , 602, 125130	23
226	Introduction. 2020 , 1-37	
225	Graphene-based nanomaterials for healthcare applications. 2020 , 45-81	6
224	Graphene oxide and reduced graphene oxide-based scaffolds in regenerative medicine. 2020 , 580, 119226	62
223	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. 2020 , 163, 385-394	56

222	Probing the compound effect of spatially varying intrinsic defects and doping on mechanical properties of hybrid graphene monolayers. 2020 , 50, 44-58	16
221	Biosensors-Recent Advances and Future Challenges in Electrode Materials. 2020 , 20,	26
220	BSA- and Elastin-Coated GO, but Not Collagen-Coated GO, Enhance the Biological Performance of Alginate Hydrogels. 2020 , 12,	2
219	Nanoparticles/nanofibers for checking adulteration/spoilage of food products. 2020 , 459-492	3
218	Nanosensors in biomedical and environmental applications: Perspectives and prospects. 2020 , 163-186	4
217	Effect of dehydrogenated hydrocarbon doping on the electronic properties of graphene-type nanosheets. 2020 , 384, 126702	10
216	Evaluation of Safety and Antileishmanial Efficacy of Amine Functionalized Carbon-Based Composite Nanoparticle Appended With Amphotericin B: An and Preclinical Study. 2020 , 8, 510	10
215	Transition metal-doped graphene nanoflakes for CO and CO ₂ storage and sensing applications: a DFT study. 2020 , 31, 2237-2247	7
214	Free-Standing NiO Nanosheets as Non-Enzymatic Electrochemical Sensors. 2020 , 5, 2424-2429	2
213	Pump-probe micro-spectroscopy and 2D materials. 2020 , 53, 473001	6
212	Applications of electrochemical sensors and biosensors based on modified screen-printed electrodes: a review. 2020 , 12, 1547-1560	47
211	A DFT study on the effect of the external electric field on ammonia interaction with boron nitride nano-cage. 2020 , 141, 109399	15
210	Extraction of the terahertz constitutive tensors of multilayer graphene-dielectric stacks. 2020 , 464, 125487	2
209	The electrochemical sensor based on graphene oxide nanosheets decorated by gold nanoparticles and polythiophene for nicotine sensing in biological samples and cigarette. 2020 , 31, 5471-5477	5
208	In Situ Deactivation of Catechol-Containing Adhesive Using Electrochemistry. 2020 , 142, 4631-4638	29
207	Refractive Index Sensors Based on Ti ₃ C ₂ T _x MXene Fibers. 2020 , 3, 303-311	36
206	Recent advances in nanomaterial-based electrochemical detection of antibiotics: Challenges and future perspectives. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112046	11.8 70
205	Nanomaterials in electrochemical cytosensors. 2020 , 145, 2058-2069	16

204	Polypyrrole/graphene oxide composite coating on Ti implants: a promising material for biomedical applications. 2020 , 55, 5211-5229	12
203	ReviewNon-Enzymatic Hydrogen Peroxide Electrochemical Sensors Based on Reduced Graphene Oxide. 2020 , 167, 037531	52
202	ReviewSingle Walled Carbon Nanotubes as Optical Sensors for Biological Applications. 2020 , 167, 037530	18
201	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. 2020 , 6, 86-101	40
200	Graphene-Based Biosensors for Detection of Biomarkers. 2020 , 11,	57
199	Electromagnetic Characterization of Graphene-Plasma Formations. 2020 , 48, 852-857	1
198	Effects of polymer residue on the pull-in of suspended graphene. 2020 , 38, 023001	2
197	Designing Dual-Function Nanostructures for Water Purification in Sunlight. 2020 , 10, 1786	6
196	Functionalized Polyelectrolytes for Bioengineered Interfaces and Biosensing Applications. 2020 , 02, 078-107	2
195	Lipase immobilized graphene oxide biocatalyst assisted enzymatic transesterification of Pongamia pinnata (Karanja) oil and downstream enrichment of biodiesel by solar-driven direct contact membrane distillation followed by ultrafiltration. 2021 , 211, 106577	17
194	Contrasting spectroscopic response of human hemoglobin in presence of graphene oxides and its reduced form: Comparative approach with carbon quantum dots. 2021 , 247, 119079	2
193	Lipid bilayer on wrinkled-interfaced graphene field effect transistor. 2021 , 284, 128998	1
192	Energy Plasmon Modes in Metamaterial-filled Double-layer Graphene-wrapped Cylindrical Waveguides. 2021 , 16, 695-709	
191	A self-powered 2D-material sensor unit driven by a SnSe piezoelectric nanogenerator. 2021 , 9, 4716-4723	10
190	Sensitivity Analysis of Metasurface Array-Based Refractive Index Biosensors. 2021 , 21, 1470-1477	16
189	Highly Sensitive Surface Plasmon Resonance Sensor Based on Graphene-Coated U-shaped Fiber. 2021 , 16, 205-213	11
188	Selective and sensitive detection of lead Pb(II) ions: Au/SWNT nanocomposite-embedded MOF-199. 2021 , 56, 474-487	11
187	Biosensors based on two-dimensional materials. 2021 , 245-312	

186	Graphene, an Interesting Nanocarbon Allotrope for Biosensing Applications: Advances, Insights, and Prospects. 2021 , 12, 1179597220983821	2
185	Application of magnetic nanomaterials as electrochemical biosensors. 2021 , 303-326	0
184	Hybrid Modeling and Sensitivity Analysis on Reduced Graphene Oxide Field-Effect Transistor. 2021 , 20, 404-416	0
183	Graphene Field-Effect Transistor Biosensor. 2021 , 45-67	
182	Influence of the Electrolyte Salt Concentration on DNA Detection with Graphene Transistors. 2021 , 11,	6
181	Structural Analysis and Thermal Properties of Graphene and Biocomposite Potential Application in Various Sensors. 2021 , 407-427	1
180	Evolution of the Electronic Properties of ZrX ₂ (X = S, Se, or Te) Thin Films under Varying Thickness. 2021 , 125, 1134-1142	7
179	Protein interactions with chemical vapor deposited graphene modified by substrate. 2021 , 8, 025015	1
178	Evolving scientific aptitude of poly(ethylene glycol) filled with carbonaceous nanofillers. 875608792199909	0
177	Sponge Graphene Aerogel Pressure Sensors with an Extremely Wide Operation Range for Human Recognition and Motion Detection. 2021 , 3, 1301-1310	9
176	Novel Nanoarchitectures Based on Lignin Nanoparticles for Electrochemical Eco-Friendly Biosensing Development. 2021 , 11,	1
175	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. 2021 , 8, 011311	5
174	Green synthesis of reduce graphene oxide by green tea leaves. 2021 , 1795, 012070	
173	Band Engineering and Van Hove Singularity on HfX ₂ Thin Films (X = S, Se, or Te). 2021 , 3, 1071-1079	3
172	Designing of Nanomaterials-Based Enzymatic Biosensors: Synthesis, Properties, and Applications. 2021 , 2, 149-184	21
171	Characterization of Low-Cost, Robust, Graphene-Based Amperometric Dot Microsensors for the Determination of Dopamine. 2021 , 54, 2921-2928	
170	A Label-Free DNA-Immunosensor Based on Aminated rGO Electrode for the Quantification of DNA Methylation. 2021 , 11,	1
169	Au Nanoparticles@Few-Layer Graphene Modified Screen-Printed Three-Electrode for Improved Electrochemical Properties: Ethanol Sensor Application. 2021 ,	

168	DFT and TD-DFT studies of halogens adsorption on cobalt-doped porphyrin: Effect of the external electric field. 2021 , 23, 103964	5
167	Investigation of Graphene as a Sensing Layer for Future Prostate Cancer Biosensing Applications. 2021 , 1921, 012038	
166	Trace level electrochemical detection of mesalazine in human urine sample using poly (N-Vinyl)-2-Pyrrolidone capped Bi-EDTA complex sheets incorporated with ultrasonically exfoliated graphene oxide. 2021 , 122, 67-77	5
165	A Roadmap of Cancer: From the Historical Evidence to Recent Salivary Metabolites-based Nanobiosensor Diagnostic Devices. 2021 , 8, 27-52	1
164	The impact of an external electric field on methanol adsorption on XB11N12 (X=B, Co, Ni) nano-cages: A DFT and TD-DFT study. 2021 , 153, 110033	3
163	Glucose Biofuel Cells. 2021 , 219-228	
162	Label-free aptasensor for p24-HIV protein detection based on graphene quantum dots as an electrochemical signal amplifier. 2021 , 1166, 338548	9
161	When nano meets plants: A review on the interplay between nanoparticles and plants. 2021 , 38, 101143	19
160	Perspectives of Nano-Materials and Nanobiosensors in Food Safety and Agriculture.	3
159	Junctionless Carbon Nanotube Field-Effect Transistors as Gas Nanosensors for Low-Power Environment Monitoring Applications. 2021 ,	
158	Electroanalytical overview: utilising micro- and nano-dimensional sized materials in electrochemical-based biosensing platforms. 2021 , 188, 268	12
157	Robust nanocarriers to engineer nanobiocatalysts for bioprocessing applications. 2021 , 293, 102438	12
156	Four-terminal graphene nanoribbon sensor devices: In-silico design and characterization. 2021 , 196, 110506	
155	A Review on the Production Methods and Applications of Graphene-Based Materials. 2021 , 11,	8
154	Graphene-Based Nanomaterials for Biomedical, Catalytic, and Energy Applications. 2021 , 6, 9669-9683	1
153	Graphene-Based Technologies for Tackling COVID-19 and Future Pandemics.. 2021 , 2107407	14
152	Advancement in Detection Methods: From Conventional to Electrochemical-Based Sensing Detection. 2021 , 11,	4
151	Challenges in the design of electrochemical sensor for glyphosate-based on new materials and biological recognition. 2021 , 793, 148496	7

150	Electrochemical and optical biosensors based on multifunctional MXene nanoplatforms: Progress and prospects. 2021 , 235, 122726	12
149	Defect Engineering of Two-Dimensional Transition-Metal Dichalcogenides: Applications, Challenges, and Opportunities. 2021 , 15, 2165-2181	53
148	Carbon-based nanomaterials for viral infection management. 2021 , 15, 011501	7
147	Hemoglobin detection using semiconductor-based optical biosensors. 2021 , 323-340	
146	Introduction. 2015 , 1-9	4
145	Nanosized Materials. 2014 , 139-181	1
144	Nanofield. 2017 , 1-123	2
143	Fluorine and sulfur simultaneously co-doped suspended graphene. 2017 , 422, 104-110	19
142	The recent advancement of low-dimensional nanostructured materials for drug delivery and drug sensing application: A brief review. 2020 , 320, 114427	29
141	CHAPTER 4:Nanostructure-based Sensitive Electrochemical Immunosensors. 2019 , 58-85	1
140	Influence of the adsorption of toxic agents on the optical and electronic properties of B12N12 fullerene in the presence and absence of an external electric field. 2020 , 44, 14513-14528	7
139	Glial cell responses on tetrapod-shaped graphene oxide and reduced graphene oxide 3D scaffolds in brain in vitro and ex vivo models of indirect contact. 2020 , 16, 015008	3
138	ZnO Nanostructures and Their Sensing Applications: A Review. 2017 , 9, 1787-1826	7
137	Electrochemical biosensors: perspective on functional nanomaterials for on-site analysis. 2020 , 24, 6	147
136	Graphene Based Materials: Opportunities and Challenges in Nanomedicine. 2015 , 2,	2
135	Characterization and evaluation of amine-modified graphene amphotericin B for the treatment of visceral leishmaniasis: in vivo and in vitro studies. 2014 , 8, 1235-47	12
134	Cellulose-based Biosensor for Bio-molecules Detection in Medical Diagnosis: A Mini-Review. 2020 , 27, 4593-4612	8
133	Polymer-Graphene Nanoassemblies and their Applications in Cancer Theranostics. 2020 , 20, 1340-1351	2

- 132 Nano-enabled medical devices based on biosensing principles: technology basis and new concepts. **2017**, 4, 250-266 5
- 131 Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. **2018**, 5, 422-466 11
- 130 The Impact of Carbon Nanotubes and Graphene on Electronics Industry. **2019**, 382-394 2
- 129 Oxygen Plasma/Bismuth Modified Inkjet Printed Graphene Electrode for the Sensitive Simultaneous Detection of Lead and Cadmium. **2020**, 11, 1-14 0
- 128 A new nano-composite carbon ink for disposable dopamine biosensors. **2016**, 29, 35-42 1
- 127 Trends of Researches and Technologies of Electronic Packaging Using Graphene. **2016**, 23, 1-10 2
- 126 Study of structural, optical and electrochemical properties of GO/TiO₂ nanostructures prepared by microwave-assisted technique for its application as a glucose sensor. **2021**, 12, 035015
- 125 Refractive index of graphene AA and AB stacked bilayers under the influence of relative planar twisting. **2021**, 34, 1
- 124 Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. **2021**, 6, 3841-3881 7
- 123 Review Electrochemical Hydrazine Sensors Based on Graphene Supported Metal / Metal Oxide Nanomaterials. 1
- 122 Bio-Nanotech (Vol. 17, No. 1, Full Issue). **2013**, 17,
- 121 Graphene based Transparent Conductive Film : Status and Perspective. **2013**, 50, 309-318
- 120 Preparation of Graphene-Palladium Composite by Aerosol Process and Its Characterization for Glucose Biosensor. **2014**, 10, 53-59
- 119 Introduction. **2015**, 1-10
- 118 Architecture and Applications of Functional Three-Dimensional Graphene Networks. 67-99 0
- 117 Grapheneoxide: preparation, properties, applications (review). **2015**, 6, 413-448 2
- 116 Encyclopedia of Nanotechnology. **2016**, 387-404
- 115 The Impact of Carbon Nanotubes and Graphene on Electronics Industry. **2018**, 2897-2907

- 114 ELECTROMAGNETIC WAVE REFLECTANCE, TRANSMITTANCE, AND ABSORPTION IN A GRAPHENE-COVERED UNIAXIAL CRYSTAL SLAB. **2018**, 73, 71-79
- 113 Chapter 5:Carbon Nanomaterials in Electrochemical Detection. **2018**, 150-199 1
- 112 Residue Free Fabrication of Suspended 2D Nanosheets for in-situ TEM Nanomechanics. **2018**, 28, 627-632
- 111 Effect of Temperature on the Fracture Strength of Perfect and Defective MonoLayered Graphene. **2019**, 793-804 2
- 110 Emerging Point-of-Care Diagnostic Methods for Disease Detection. **2019**, 377-397
- 109 Research of the multifunctional rGO/MoS2 material in the sensing field: Human breathing and Hg(II) pollution detection. **2022**, 138, 106268 1
- 108 Nanomaterial for Biosensors. **2020**, 35-61
- 107 Comparative Study of Various Defects in Monolayer Graphene Using Molecular Dynamics Simulation. **2020**, 539-546 2
- 106 Subject Index. **2020**, 427-432
- 105 . **2020**,
- 104 EditorsBiographies. **2020**, 421-421
- 103 Title, Copyright, Foreword. **2020**, i-v
- 102 IIIIV Nitrides and Graphene SPR Biosensor for Hemoglobin Detection. **2020**, 35-42
- 101 Recent Progress in the Transfer of Graphene Films and Nanostructures.. **2021**, 5, e2100771 3
- 100 Recentadvances in the propertiesand synthesis of bilayer graphene and transition metal dichalcogenides. **2020**, 3, 042003 2
- 99 Hybrid machine-learning-assisted quantification of the compound internal and external uncertainties of graphene: towards inclusive analysis and design. 4
- 98 Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. **2022**, 173-196
- 97 Superatoms as Building Blocks of 2D Materials. **2021**, 209-255

96	Quantitative Super-Resolution Microscopy to Assess Adhesion of Neuronal Cells on Single-Layer Graphene Substrates. 2021 , 11,	0
95	Versatile Sensing Structure: GaP/Au/Graphene/Silicon. 2021 , 8, 547	1
94	Manipulating the Electronic Properties of Gas-Adsorbed Monolayer GeSe by External Electric Field. 1	0
93	Biosensors for simplistic detection of pathogenic bacteria: A review with special focus on field-effect transistors. 2022 , 141, 106404	1
92	A Pharmacodynamic Evaluation Method Based on Optogenetics and Graphene FETs. 2021 ,	
91	Porous carbons for environment remediation. 2022 , 541-802	
90	Smartphone-based chemical sensors and biosensors for biomedical applications. 2022 , 307-332	
89	Role of nanobiosensors and biosensors for plant virus detection. 2022 , 493-506	0
88	Highly Sensitive Voltammetric Immunosensing of Cancer Biomarkers HER2 and CA125 Using Gold Nanoparticles Anchored Reduced Graphene Oxide Enzyme-Free Nanolabel.	0
87	Sensors based on graphene nanoribbons and polyaniline nanochannels with graphene-graphene oxide contacts formed by ion etching. 2022 ,	
86	Advances in the Rapid Diagnostic of Viral Respiratory Tract Infections.. 2022 , 12, 807253	1
85	Environmental protection based on the nanobiosensing of bacterial lipopolysaccharides (LPSs): material and method overview.. 2022 , 12, 9704-9724	0
84	Potential electrochemical biosensors for early detection of viral infection. 2022 , 133-154	0
83	Highly selective detection of ethanol in biological fluids and alcoholic drinks using indium ethylenediamine functionalized graphene.	0
82	Structural, morphological, and optical properties of CdS and nickel doped CdS nanocrystals synthesized via a bottom-up approach. 2022 , 56, 811-818	1
81	Biosensors Development. 2022 ,	1
80	A Biomedical Perspective in Terahertz Nano-Communications A Review. 2022 , 1-1	2
79	Nanomaterial-Based Biosensors using Field-Effect Transistors: A Review.. 2022 , 51, 1-24	4

78	Design, Fabrication, and Characterisation of a Label-Free Nanosensor for Bioapplications.. 2022 , 22,	
77	Comparison and evaluation of the performance of graphene-based biosensors. 1	1
76	Membrane-Enabled Sustainable Biofuel Production. 2022 , 343-365	
75	Graphene-Fiber Microelectrodes for Ultrasensitive Neurochemical Detection.. 2022 ,	2
74	Graphene-Oxide-Based Fluoro- and Chromo-Genic Materials and Their Applications.. 2022 , 27,	1
73	Zigzag phosphorene antidot nanoribbons (ZPANRs) for the detection of nucleobases: A DFT based study. 2022 , 131, 144301	0
72	Recent advances in membrane-enabled water desalination by 2D frameworks: Graphene and beyond. 2022 , 531, 115684	9
71	Advanced nanoengineered-customized point-of-care tools for prostate-specific antigen.. 2021 , 189, 27	1
70	Image_1.TIF. 2020 ,	
69	Image_2.TIF. 2020 ,	
68	Table_1.docx. 2020 ,	
67	Graphene-Maleic Anhydride-Grafted- Carboxylated Acrylonitrile Butadiene-Rubber Nanocomposites.	
66	A machine learning colorimetric biosensor based on acetylcholinesterase and silver nanoparticles for the detection of dichlorvos pesticides.	1
65	Protein Engineering for Designing Efficient Bioelectrodes. 2022 , 1-12	
64	Recent Advances in Electrochemical Sensing of Hydrogen Peroxide (HO) Released from Cancer Cells.. 2022 , 12,	3
63	A review on the recent developments in the materials used for sensors. 2022 ,	0
62	MXene-Based Aptasensors: Advances, Challenges, and Prospects. 2022 , 100967	6
61	Insights into controllable electronic properties of 2D type-II Twin-Graphene/g-CN43 and type-I Twin-Graphene/hBN vertical heterojunctions via external electric field and strain engineering. 2022 , 128216	

- 60 Therapeutic significance of nano- and biosensor technology in combating SARS-CoV-2: a review. 0
- 59 rGO/ReO₃ nano composite modified electrode for the ultra-sensitive determination of dopamine and uric acid. **2022**, 11, 100156 1
- 58 Introduction to graphene-based materials and their composites. **2022**, 1-47
- 57 Hybrid Nanobioengineered Nanomaterial-Based Electrochemical Biosensors. **2022**, 27, 3841 1
- 56 High-Performance Graphene FET Integrated Front-End Amplifier Using Pseudo-resistor Technique for Neuro-prosthetic Diagnosis. 1
- 55 Use of Nanomaterials for Diagnosis and Treatment: The Advancement of Next-Generation Antiviral Therapy. **2022**, 28, 670-697 0
- 54 Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. **2022**, 19, 2657-2694 3
- 53 Heterogeneous transition metal dichalcogenides/graphene composites applied to the metal-ion batteries. **2022**, 447, 137469 2
- 52 Introduction to Nanobiosensing Technologies and Nanobioanalytical Systems. **2022**, 1-14
- 51 Advances and emerging challenges in MXenes and their nanocomposites for biosensing applications. **2022**, 12, 19590-19610 4
- 50 Effects of Graphene Oxide and Reduced Graphene Oxide on the Mechanical and Dielectric Properties of Acrylonitrile-Butadiene Rubber and Ethylene-Propylene-Diene-Monomer Blend. **2022**, 2022, 1-17 2
- 49 Application of Graphene and its Derivatives in Detecting Hazardous Substances in Food: A Comprehensive Review. 10,
- 48 Advanced graphene nanosheets approaches to efficient solar thermal water purification system.
- 47 Thermally Drawn CNT-Based Hybrid Nanocomposite Fiber for Electrochemical Sensing. **2022**, 12, 559 1
- 46 Modulation of Optoelectronic and Mechanical Properties Across (Bio)Molecular Junctions Under External Stimuli.
- 45 Amphiphilic Nanointerface: Inducing the Interfacial Activation for Lipase. 1
- 44 Laser photoreduction of graphene aerogel microfibers: dynamic electrical and thermal behaviors. 0
- 43 Entropic interactions of 2D materials with cellular membranes: Parallel versus perpendicular approaching modes. **2022**, 174, 104414 0

42	Various defects in graphene: a review. 2022 , 12, 21520-21547	5
41	A review on nanomaterial-based electrodes for the electrochemical detection of chloramphenicol and furazolidone antibiotics. 2022 , 14, 3228-3249	0
40	Orbital mediated charge transfer channels in a monolayer Gr/NiPc heterointerface unveiled by soft X-ray electron spectroscopies and DFT calculations. 2022 , 14, 13166-13177	1
39	Graphene-based nanoarchitectures as ideal supporting materials to develop multifunctional nanobiocatalytic systems for strengthening the biotechnology industry. 2023 , 452, 139509	0
38	Recent Trends in Rapid Environmental Monitoring of Toxicants Using Nanobiosensors. 2022 , 393-405	0
37	Chapter 9. Nanotechnology to Detect the Microbial Toxins in Stored Food. 2022 , 181-198	0
36	NEMS/MEMS carbon functionalization: A prospective expression.	0
35	Nanotechnology for Personalized Medicine. 2022 , 1-48	0
34	Detecting Low-Brominated Diphenyl Ethers by Highly Sensitive Biosensors Based on the Blocking Effect on Glucose Oxidase.	0
33	Recent advances in the utilization of polyaniline in protein detection: a short review. 2022 , 12, 32885-32897	0
32	A comprehensive review on graphene FET bio-sensors and their emerging application in DNA/RNA sensing & rapid Covid-19 detection. 2023 , 206, 112202	0
31	Potent antibacterial activity of MXene/functionalized graphene nanocomposites. 2022 , 12, 33142-33155	1
30	Antiviral properties of porous graphene, graphene oxide and graphene foam ultrafine fibers against Phi6 bacteriophage. 9,	0
29	The Effect of Relative In-Plane Twisting in Graphene Bilayer on Sensing Using Surface Plasmon Resonance.	0
28	A Review on Electrospinning as Versatile Supports for Diverse Nanofibers and Their Applications in Environmental Sensing.	0
27	Graphene-based Nanocomposites as Antibacterial, Antiviral, and Antifungal Agents. 2201523	0
26	Highly Sensitive and Selective Graphene Nanoribbon Based Enzymatic Glucose Screen-Printed Electrochemical Sensor. 2022 , 22, 9590	0
25	Application of Nanoparticles: Diagnosis, Therapeutics, and Delivery of Insulin/Anti-Diabetic Drugs to Enhance the Therapeutic Efficacy of Diabetes Mellitus. 2022 , 12, 2078	1

- 24 Graphene-maleic anhydride-grafted-carboxylated acrylonitrile butadiene-rubber nanocomposites. **2022**, 8, e11974 ○
- 23 Aptamer-Based Electrochemical Biosensors for the Detection of Salmonella: A Scoping Review. **2022**, 12, 3186 ○
- 22 Recent Progress in Electrochemical Nano-Biosensors for Detection of Pesticides and Mycotoxins in Foods. **2023**, 13, 140 ○
- 21 Nanotechnology for Personalized Medicine. **2023**, 555-603 ○
- 20 Synthesis and characterization of linear/nonlinear optical properties of graphene oxide and reduced graphene oxide-based zinc oxide nanocomposite. **2023**, 13, 2
- 19 Polymer/fullerene nanomaterials in optoelectronic devices: Photovoltaics, light-emitting diodes, and optical sensors. **2023**, 153-174 ○
- 18 Polymer and nanoball-derived nanomaterials: Carbonaceous nanoball, polymer nanoball, and inorganic nanoball. **2023**, 107-130 ○
- 17 Graphene-based gas sensors. **2023**, 127-147 ○
- 16 Commercial Prospects of Graphene-Based Biomolecular Electronic Devices and Challenges. **2023**, 239-248 ○
- 15 Aptamer-conjugated carbon nanotubes or graphene for targeted cancer therapy and diagnosis. **2023**, 277-294 ○
- 14 High-Performance Device to Detect Interleukin-13 Based on Graphene Field-Effect Transistor. **2023**, 32, 30-33 ○
- 13 Electrochemical biosensor based on cellulose nanofibers/graphene oxide and acetylcholinesterase for the detection of chlorpyrifos pesticide in water and fruit juice. **2023**, 13, 9603-9614 1
- 12 Carbon nanomaterials-PEDOT: PSS based electrochemical ionic soft actuators: Recent development in design and applications. **2023**, 354, 114277 ○
- 11 Label-free electrochemical aptasensor for ultrasensitive thrombin detection using graphene nanoplatelets and carbon nano onion-based nanocomposite. **2023**, 937, 117422 ○
- 10 A tear-based battery charged by biofuel for smart contact lenses. **2023**, 110, 108344 ○
- 9 Obtaining and characterization of bioplastics based on potato starch, aloe, and graphene. **2022**, 32, ○
- 8 Graphene and Graphene Based Nanocomposites for Bio-Medical and Bio-safety Applications. **2023**, 8, ○
- 7 Emerging Trends and Recent Progress of MXene as a Promising 2D Material for Point of Care (POC) Diagnostics. **2023**, 13, 697 ○

- 6 Synthesis and Characteristics of Graphene-Graphene Oxide Material Obtained by an Underwater Impulse Direct Current Discharge. o
- 5 Review of recent developments of sensor materials and applications. **2023**, o
- 4 Nanotechnology for point-of-care (POC) diagnostics. **2023**, 249-272 o
- 3 Polyelectrolyte assembly with nanoparticle-immobilized enzymes. **2023**, 61-87 o
- 2 2D material-based sensing devices: an update. **2023**, 11, 6016-6063 o
- 1 Nanosensors in food science and technology. **2023**, 247-272 o