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List of articles citing

Graphene quantum dots as a new substrate for immobilization and direct electrochemistry of glucose oxidase: application to sensitive glucose determination

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#	Paper	IF	Citations
272	A glucose biosensor based on direct electron transfer of glucose oxidase immobilized onto glassy carbon electrode modified with nitrophenyl diazonium salt. 2013 , 112, 640-647		30
271	Focusing on luminescent graphene quantum dots: current status and future perspectives. 2013 , 5, 4015-39		1120
270	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. 2013 , 5, 6053-62		237
269	Solution-processable graphene quantum dots. 2013 , 14, 2627-40		29
268	Recent advances in graphene quantum dots for sensing. <i>Materials Today</i> , 2013 , 16, 433-442	21.8	552
267	Graphene quantum dots as sensor for phenols in olive oil. <i>Sensors and Actuators B: Chemical</i> , 2014 , 197, 350-357	8.5	49
266	Graphene Quantum Dots. 2014 , 31, 415-428		616
265	Fluorescent blood glucose monitor by hemin-functionalized graphene quantum dots based sensing system. 2014 , 810, 71-8		112
264	Graphene/polyamidoamine dendrimer/Pt nanoparticles hybrid nanomaterial for the preparation of mediatorless enzyme biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 717-718, 96-102	4.1	42
263	Facile Synthesis of Graphene Quantum Dots from 3D Graphene and their Application for Fe ³⁺ Sensing. 2014 , 24, 3021-3026		377
262	Immobilization of Enzymes and other Biomolecules on Graphene. 2014 , 139-172		1
261	Direct electron transfer of glucose oxidase and biosensing for glucose based on PDDA-capped gold nanoparticle modified graphene/multi-walled carbon nanotubes electrode. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 147-52	11.8	183
260	Graphene quantum dots as a fluorescent sensing platform for highly efficient detection of copper(II) ions. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 516-522	8.5	258
259	Luminescent graphene quantum dots as new fluorescent materials for environmental and biological applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 54, 83-102	14.6	245
258	Direct electrochemistry and electrocatalysis of glucose oxidase based poly(L-arginine)-multi-walled carbon nanotubes. 2014 , 4, 50771-50781		18
257	Multi-walled carbon nanotubes decorated with palladium nanoparticles as a novel platform for electrocatalytic sensing applications. 2014 , 4, 49595-49604		77
256	A capillary electrophoresis-based immobilized enzyme reactor using graphene oxide as a support via layer by layer electrostatic assembly. <i>Analyst, The</i> , 2014 , 139, 1973-9	5	37

255	A green, rapid and size-controlled production of high-quality graphene sheets by hydrodynamic forces. 2014 , 4, 36464-36470		96
254	A single-wavelength-emitting ratiometric probe based on phototriggered fluorescence switching of graphene quantum dots. 2014 , 20, 13777-82		8
253	Trace vapour detection at room temperature using Raman spectroscopy. <i>Analyst, The</i> , 2014 , 139, 1960-65		7
252	Three-dimensional graphene-carbon nanotube hybrid for high-performance enzymatic biofuel cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3387-93	9.5	123
251	Preparation and characterization of Fe ₃ O ₄ /graphene quantum dots nanocomposite as an efficient adsorbent in magnetic solid phase extraction: application to determination of bisphenol A in water samples. 2014 , 6, 8413-8419		44
250	Synthesis of Au-MWCNT/graphene hybrid composite for the rapid detection of H ₂ O ₂ and glucose. 2014 , 4, 41670-41677		21
249	Graphene quantum dots-three-dimensional graphene composites for high-performance supercapacitors. 2014 , 16, 19307-13		135
248	Achieving direct electrochemistry of glucose oxidase by one step electrochemical reduction of graphene oxide and its use in glucose sensing. <i>Materials Science and Engineering C</i> , 2014 , 45, 103-8	8.3	20
247	Design synthesis of polypyrrole-Co ₃ O ₄ hybrid material for the direct electrochemistry of Hemoglobin and Glucose Oxidase. 2014 , 98, 87-93		18
246	Horseradish peroxidase enzyme immobilized graphene quantum dots as electrochemical biosensors. 2014 , 174, 945-59		60
245	DNA-templated synthesis of PtAu bimetallic nanoparticle/graphene nanocomposites and their application in glucose biosensor. 2014 , 9, 99		18
244	Fabrication of graphene quantum dots/silicon nanowires nanohybrids for photoelectrochemical detection of microcystin-LR. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 532-538	8.5	43
243	Green synthesis of reduced graphene oxide decorated with gold nanoparticles and its glucose sensing application. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 475-482	8.5	62
242	Characterization of PbS/PVA/GQDs nanocomposite prepared by chemical bath deposition method. 2014 , 68, 10403		1
241	CdTe-paper-based Visual Sensor for Detecting Methyl Viologen. 2015 , 33, 446-450		15
240	Surface engineering of graphene quantum dots and their applications as efficient surfactants. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8615-21	9.5	59
239	A graphene quantum dots based fluorescent sensor for anthrax biomarker detection and its size dependence. 2015 , 3, 4865-4870		62
238	Glucose sensing by a glassy carbon electrode modified with glucose oxidase and a magnetic polymeric nanocomposite. 2015 , 5, 18267-18274		45

237	Membrane/mediator-free rechargeable enzymatic biofuel cell utilizing graphene/single-wall carbon nanotube cogel electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4056-65	9.5	61
236	Fluorescent graphene quantum dots for biosensing and bioimaging. 2015 , 5, 19773-19789		171
235	Nanoreactor-confined synthesis and separation of yellow-luminescent graphene quantum dots with a recyclable SBA-15 template and their application for Fe(III) sensing. 2015 , 87, 215-225		41
234	Graphene quantum dots in analytical science. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 72, 93-113	14.6	157
233	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <i>Mikrochimica Acta</i> , 2015 , 182, 2165-2172	5.8	15
232	Hierarchical architecture of nanographene-coated rice-like manganese dioxide nanorods/graphene for enhanced electrocatalytic activity toward hydrogen peroxide reduction. 2015 , 40, 176-182		10
231	Covalent modification of ordered mesoporous carbon with glucose oxidase for fabrication of glucose biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 752, 60-67	4.1	16
230	A novel strategy for the detection of tert-butylhydroquinone based on graphene quantum dots and silver nanoparticle modified glass carbon electrode. 2015 , 93, 648-654		6
229	Electrochemical enantio-recognition of tryptophan enantiomers based on graphene quantum dots-chitosan composite film. 2015 , 57, 5-9		74
228	An ultrasensitive sandwich type electrochemiluminescence immunosensor for triiodothyronine detection using silver nanoparticle-decorated graphene oxide as a nanocarrier. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 476-482	11.8	14
227	Graphene Nanosheets/Poly(3,4-ethylenedioxythiophene) Nanotubes Composite Materials for Electrochemical Biosensing Applications. 2015 , 172, 61-70		17
226	Enhanced photoluminescence of pyrrolic-nitrogen enriched graphene quantum dots. 2015 , 5, 43750-43755		42
225	Carbon nanomaterial-based electrochemical biosensors: an overview. 2015 , 7, 6420-31		262
224	Graphene quantum dots as a novel sensing material for low-cost resistive and fast-response humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 73-77	8.5	47
223	Recent applications of carbon nanomaterials in fluorescence biosensing and bioimaging. 2015 , 51, 11346-58		159
222	An Imperata Cylindrical Flowers-Shaped Porous Graphene Microelectrode for Direct Electrochemistry of Glucose Oxidase. 2015 , 162, B138-B144		11
221	Hydrogen peroxide sensitive hemoglobin-capped gold nanoclusters as a fluorescence enhancing sensor for the label-free detection of glucose. 2015 , 5, 33123-33135		38
220	Visual fluorescence detection of H ₂ O ₂ and glucose based on "molecular beacon"-hosted Hoechst dyes. <i>Analyst, The</i> , 2015 , 140, 3642-7	5	15

219	Preparation of graphene quantum dots based core-satellite hybrid spheres and their use as the ratiometric fluorescence probe for visual determination of mercury(II) ions. 2015 , 888, 173-81		40
218	Efficient synthesis of xanthene derivatives using carboxyl functionalized graphene quantum dots as an acidic nano-catalyst under microwave irradiation. 2015 , 5, 88202-88208		15
217	Graphene quantum dots as novel and green nano-materials for the visible-light-driven photocatalytic degradation of cationic dye. 2015 , 409, 102-109		107
216	Modification of Structural and Luminescence Properties of Graphene Quantum Dots by Gamma Irradiation and Their Application in a Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25865-74	9.5	78
215	Glowing graphene quantum dots and carbon dots: properties, syntheses, and biological applications. 2015 , 11, 1620-36		1415
214	A three-dimensional nitrogen-doped graphene structure: a highly efficient carrier of enzymes for biosensors. 2015 , 7, 1290-5		51
213	Fabrication of modified glassy carbon electrode using graphene quantum dot, gold nanoparticles and 4-(((4-mercaptophenyl)imino)methyl) benzene-1,2-diol by self-assembly method and investigation of their electrocatalytic activities. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 738, 113-122	4.1	43
212	Ultraviolet and blue emitting graphene quantum dots synthesized from carbon nano-onions and their comparison for metal ion sensing. 2015 , 51, 4176-9		69
211	Synthesis of nitrogen-doped and amino acid-functionalized graphene quantum dots from glycine, and their application to the fluorometric determination of ferric ion. <i>Mikrochimica Acta</i> , 2015 , 182, 763-770	5.8	93
210	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO ₂ nanoparticles. 2015 , 853, 258-264		122
209	Carboxyl and nitrite functionalized graphene quantum dots as a highly active reagent and catalyst for rapid diazotization reaction and synthesis of azo-dyes under solvent-free conditions. 2015 , 113, 522-528		37
208	Graphene Quantum Dots: Syntheses, Properties, and Biological Applications. 2016 , 171-192		9
207	Preparation of Graphene Quantum Dots and Their Application in Cell Imaging. 2016 , 2016, 1-9		19
206	Nitrogen-Doped Carbon Dots as A New Substrate for Sensitive Glucose Determination. <i>Sensors</i> , 2016 , 16,	3.8	37
205	Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. <i>Mikrochimica Acta</i> , 2016 , 183, 1591-1599	5.8	12
204	Fabrication of a third-generation glucose biosensor using graphene-polyethyleneimine-gold nanoparticles hybrid. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 454-461	8.5	56
203	Graphene quantum dot as an electrically conductive material toward low potential detection: a new platform for interface science. 2016 , 27, 6488-6495		38
202	Fluorometric detection of tyrosine and cysteine using graphene quantum dots. 2016 , 6, 33197-33204		20

201	Biomass-Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Direct-Electron-Transfer-Based Glucose Sensing. <i>ChemElectroChem</i> , 2016 , 3, 144-151	4.3	18
200	An ultrasensitive nanobiohybrid platform for glucose electrochemical biosensing based on ferrocenyl iminopropyl-modified silica nanoparticles. 2016 , 6, 46238-46243		4
199	Dual-emission carbon nanodots as a ratiometric nanosensor for the detection of glucose and glucose oxidase. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 320-327	8.5	32
198	Ferrocene-functionalized graphene electrode for biosensing applications. 2016 , 926, 28-35		40
197	Graphene quantum dots as smart probes for biosensing. 2016 , 8, 4001-4016		91
196	An efficient chiral sensing platform based on graphene quantum dot/tartaric acid hybrids. 2016 , 6, 84127-84132	17	
195	Novel oxidative cutting graphene oxide to graphene quantum dots for electrochemical sensing application. 2016 , 8, 127-133		22
194	Graphene quantum dots decorated with magnetic nanoparticles: Synthesis, electrodeposition, characterization and application as an electrochemical sensor towards determination of some amino acids at physiological pH. <i>Materials Science and Engineering C</i> , 2016 , 68, 814-830	8.3	62
193	Post-oxidation treated graphene quantum dots as a fluorescent probe for sensitive detection of copper ions. 2016 , 664, 127-132		11
192	High-Purity Amino-Functionalized Graphene Quantum Dots Derived from Graphene Hydrogel. 2016 , 11, 1650138		1
191	Energy transfer from an individual silica nanoparticle to graphene quantum dots and resulting enhancement of photodetector responsivity. 2016 , 6, 27145		29
190	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. 2016 , 28, 5255-61		95
189	Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. 2016 , 28, 1577-84		33
188	Alpha-Glucosidase Enzyme Biosensor for the Electrochemical Measurement of Antidiabetic Potential of Medicinal Plants. 2016 , 11, 95		20
187	Carbon dots-decorated multiwalled carbon nanotubes nanocomposites as a high-performance electrochemical sensor for detection of H ₂ O ₂ in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 4705-14	4.4	40
186	Sensing of doxorubicin hydrochloride using graphene quantum dot modified glassy carbon electrode. 2016 , 221, 354-357		39
185	Enhanced photoelectrochemical cytosensing of fibroblast-like synoviocyte cells based on visible light-activated ox-GQDs and carboxylated g-CN sensitized TiO nanorods. 2016 , 4, 4612-4619		13
184	Microwave assisted one-pot synthesis of graphene quantum dots as highly sensitive fluorescent probes for detection of iron ions and pH value. <i>Talanta</i> , 2016 , 150, 54-60	6.2	122

183	Recent Progress on Graphene-based Electrochemical Biosensors. 2016 , 16, 273-94		21
182	Highly selective dopamine sensor based on graphene quantum dots self-assembled monolayers modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 767, 84-90	4.1	46
181	A Sensitive and Selective Electrochemical Sensor Based on Graphene Quantum Dot/Gold Nanoparticle Nanocomposite Modified Electrode for the Determination of Quercetin in Biological Samples. 2016 , 28, 1322-1330		46
180	Enzymatic sensing of glucose in artificial saliva using a flat electrode consisting of a nanocomposite prepared from reduced graphene oxide, chitosan, nafion and glucose oxidase. <i>Mikrochimica Acta</i> , 2016 , 183, 1227-1233	5.8	31
179	Electrochemical Methods to Study Photoluminescent Carbon Nanodots: Preparation, Photoluminescence Mechanism and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28372-28382	8.5	33
178	Study on an improved bio-electrode made with glucose oxidase immobilized mesoporous carbon in biofuel cells. 2016 , 6, 24451-24457		8
177	Graphene quantum dot modified glassy carbon electrode for the determination of doxorubicin hydrochloride in human plasma. 2016 , 6, 235-241		83
176	Recent advances in carbon-based dots for electroanalysis. <i>Analyst, The</i> , 2016 , 141, 2619-28	5	18
175	Biosensing of glucose in flow injection analysis system based on glucose oxidase-quantum dot modified pencil graphite electrode. <i>Talanta</i> , 2016 , 147, 315-21	6.2	43
174	Development of non-enzymatic glucose sensor based on efficient loading Ag nanoparticles on functionalized carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 354-362	8.5	158
173	Molybdenum disulphide and graphene quantum dots as electrode modifiers for laccase biosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 232-7	11.8	91
172	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 195-212	11.8	271
171	Immobilization of bilirubin oxidase on graphene oxide flakes with different negative charge density for oxygen reduction. The effect of GO charge density on enzyme coverage, electron transfer rate and current density. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 384-389	11.8	24
170	Electrochemical Measurements of Glucose Using a Micro Flow-Through Immobilized Enzyme Reactor. 2017 , 29, 1474-1480		
169	Synthesis of novel monomeric graphene quantum dots and corresponding nanocomposite with molecularly imprinted polymer for electrochemical detection of an anticancerous ifosfamide drug. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 1-9	11.8	68
168	Graphene quantum dot modified screen printed immunosensor for the determination of parathion. 2017 , 523, 1-9		59
167	Amperometric glucose biosensor based on immobilization of glucose oxidase on a magnetic glassy carbon electrode modified with a novel magnetic nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 321-330	8.5	87
166	Technical synthesis and biomedical applications of graphene quantum dots. 2017 , 5, 4811-4826		120

165	A new electrochemical biosensor based on telomeric G-quadruplex DNA: In silico and experimental study of dihydropyridine derivatives potential effect on telomerase inhibition. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 796, 24-32	4.1	11
164	Synergic effect of graphene quantum dots and room temperature ionic liquid for the fabrication of highly sensitive voltammetric sensor for levodopa determination in the presence of serotonin. 2017 , 241, 316-320		65
163	Pore size effect in the amount of immobilized enzyme for manufacturing carbon ceramic biosensor. 2017 , 247, 95-102		27
162	Simple method for O-GlcNAc sensitive detection based on graphene quantum dots. 2017 , 7, 31204-31211		4
161	Graphene-based Electrochemical Biosensors: New Trends and Applications. 2017 , 427-448		2
160	On-Off Ratiometric Electrochemical Biosensor for Accurate Detection of Glucose. 2017 , 235, 488-494		15
159	Application of Carbon-Based Nanomaterials as Biosensor. 2017 , 87-127		3
158	Aptamer-Conjugated Graphene Quantum Dots/Porphyrin Derivative Theranostic Agent for Intracellular Cancer-Related MicroRNA Detection and Fluorescence-Guided Photothermal/Photodynamic Synergetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 159-166	9.5	135
157	Graphene quantum dots prepared from glucose as optical sensor for glucose. 2017 , 184, 110-116		122
156	Spotlighting graphene quantum dots and beyond: Synthesis, properties and sensing applications. 2017 , 9, 350-371		63
155	Toxicity of Graphene Quantum Dots. 2017 , 127-137		
154	Carbon and Graphene Dots for Electrochemical Sensing. 2017 , 85-117		1
153	Tannic Acid Modified Electrochemical Biosensor for Glucose Sensing Based on Direct Electrochemistry. 2017 , 29, 2719-2726		26
152	Carbon Dots for Bioimaging and Biosensing Applications. 2017 , 201-231		4
151	Effects of Substituents on the Electrocatalytic Activity of Cobalt Phthalocyanines when Conjugated to Graphene Quantum Dots. 2017 , 29, 2470-2482		21
150	Ultra-low charge transfer resistance carbons by one-pot hydrothermal method for glucose sensing. 2017 , 60, 1234-1244		5
149	Advances, challenges and promises of carbon dots. 2017 , 4, 1963-1986		88
148	Self-assembled monolayer assisted binding of partially oxidized graphene on gold: Tunable electron-transfer mediation and in-situ electrochemical disassembly. 2017 , 425, 188-193		6

147	One-step self-assembled epoxide-containing nanodots as an enzyme-immobilized platform for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 674-680	8.5	4
146	DNA methyltransferase activity detection based on graphene quantum dots using fluorescence and fluorescence anisotropy. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 217-223	8.5	42
145	A miniaturized electrochemical toxicity biosensor based on graphene oxide quantum dots/carboxylated carbon nanotubes for assessment of priority pollutants. 2017 , 324, 272-280		59
144	The impact of immobilization process on the electrochemical performance, bioactivity and conformation of glucose oxidase enzyme. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 852-861	8.5	35
143	Magnetic nanoparticles embedded with graphene quantum dots and multiwalled carbon nanotubes as a sensing platform for electrochemical detection of progesterone. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 346-356	8.5	86
142	Photoluminescence Quenching in Metal Ion (Cu ²⁺ , Co ²⁺) Interacted Graphene Quantum Dots. 2017 , 376, 1600200		3
141	Rapid and Sensitive Detection of Bacteria Response to Antibiotics Using Nanoporous Membrane and Graphene Quantum Dot (GQDs)-Based Electrochemical Biosensors. 2017 , 10,		25
140	Graphene Quantum Dots Electrochemistry and Sensitive Electrocatalytic Glucose Sensor Development. 2017 , 7,		61
139	Improvement Strategies, Cost Effective Production, and Potential Applications of Fungal Glucose Oxidase (GOD): Current Updates. 2017 , 8, 1032		53
138	Immobilization of Glucose Oxidase on Mesoporous Carbon for Bio-Electrodes. 2017 , 60, 1431-1436		1
137	Sensitive determination of uric acid by using graphene quantum dots as a new substrate for immobilisation of uric oxidase. 2018 , 12, 191-195		5
136	Graphene Quantum Dots Electrochemistry and Development of Ultrasensitive Enzymatic Glucose Sensor. 2018 , 3, 831-847		6
135	The use of SO and HO as novel specific masking agents for highly selective "turn-on" fluorescent switching recognition of CN and I based on Hg-graphene quantum dots.. 2018 , 8, 1407-1417		15
134	Graphene and its sensor-based applications: A review. <i>Sensors and Actuators A: Physical</i> , 2018 , 270, 177-194		308
133	Graphene quantum dots (GQDs) and its derivatives for multifarious photocatalysis and photoelectrocatalysis. 2018 , 315, 171-183		94
132	ZIF-67 Derived Porous Carbon from Calcination and Acid Etching Process as an Enzyme Immobilization Platform for Glucose Sensing. 2018 , 30, 466-473		9
131	A Combined Electrochemical-Microfluidic Strategy for the Microscale-Sized Selective Modification of Transparent Conductive Oxides. 2018 , 5, 1701222		1
130	A nanocomposite prepared from FeOOH and N-doped carbon nanosheets as a peroxidase mimic, and its application to enzymatic sensing of glucose in human urine. <i>Mikrochimica Acta</i> , 2018 , 185, 270	5.8	32

129	Enhancement of graphene quantum dots based applications via optimum physical chemistry: A review. 2018 , 38, 481-497		21
128	A novel way for analysis of calycosin via polyaniline functionalized graphene quantum dots fabricated electrochemical sensor. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 816, 123-131	4.1	20
127	A perspective on the physical, mechanical and biological specifications of bioinks and the development of functional tissues in 3D bioprinting. 2018 , 9, 19-36		68
126	A simple nanostructured impedimetric biosensor based on clavanin a peptide for bacterial detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 3267-3274	8.5	10
125	An electrochemical method for evaluation the cytotoxicity of fluorene on reduced graphene oxide quantum dots modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2595-2600	8.5	10
124	Graphene quantum dots produced by exfoliation of intercalated graphite nanoparticles and their application for temperature sensors. 2018 , 427, 1152-1157		25
123	Graphene-based Electrochemical Glucose Sensors: Fabrication and Sensing Properties. 2018 , 30, 2504-2524		40
122	Carbon Nanomaterial Sensors for Cancer and Disease Diagnosis. 2018 , 167-202		1
121	Quantum Dot Solar Cells. 2018 , 611-658		0
120	A voltammetric assay for microRNA-25 based on the use of amino-functionalized graphene quantum dots and ss- and ds-DNAs as gene probes. <i>Mikrochimica Acta</i> , 2018 , 185, 503	5.8	15
119	Graphene-based Hybrid Aerogels with carbon nanotubes: Mesoporous network functionality promoted defect density and electrochemical activity correlations. 2018 , 124, 124304		5
118	Recent advances in designing nanomaterial based biointerfaces for electrochemical biosensing cardiovascular biomarkers. 2018 , 161, 344-376		25
117	Nitrogen-doped carbon quantum dots for fluorescence detection of Cu and electrochemical monitoring of bisphenol A.. 2018 , 8, 20000-20006		26
116	Nanobiosensors Based on Graphene Electrodes: Recent Trends and Future Applications. 2018 , 161-177		1
115	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. 2018 , 2, 1800050		108
114	Diethyldithiocarbamate Doped Graphene Quantum Dots Based Metal Complex Nanoparticles by Resonance Light Scattering for Green Detection of Lead (II) A Review. 2018 , 34, 623-630		2
113	Biomedical Applications of Graphene Nanomaterials and Beyond. 2018 , 4, 2653-2703		123
112	Boron-doped Graphene quantum dots modified electrode for electrochemistry and electrocatalysis of hemoglobin. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 823, 137-145	4.1	26

111	Designing a modified electrode based on graphene quantum dot-chitosan application to electrochemical detection of epinephrine. 2018 , 266, 548-556		30
110	Graphene Quantum Dots and Enzyme-Coupled Biosensor for Highly Sensitive Determination of Hydrogen Peroxide and Glucose. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	21
109	Electrocatalytic activity of a push-pull phthalocyanine in the presence of reduced and amino functionalized graphene quantum dots towards the electrooxidation of hydrazine. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 820, 146-160	4.1	15
108	Synthesis of graphene oxide dots coated biomatrices and its application for the removal of multiple pollutants present in wastewater. 2018 , 203, 83-88		12
107	Prototype Biosensing Devices. 2018 , 1-28		2
106	Graphene quantum dots coated on quartz sand as efficient and low-cost adsorbent for removal of Hg ²⁺ and Pb ²⁺ from aqueous solutions. 2019 , 38, S24-S31		9
105	Calcium-Induced Photoluminescence Quenching of Graphene Quantum Dots in Hard Water: A Quick Turn-Off Sensing Approach. 2019 , 4, 8682-8688		0
104	Raman spectroscopy of bottom-up synthesized graphene quantum dots: size and structure dependence. 2019 , 11, 16571-16581		91
103	Highly selective sensing and measurement of microRNA-541 based on its sequence-specific digestion by the restriction enzyme Hinf1. 2019 , 182, 110360		1
102	Direct Electrochemical Synthesis of Graphene Oxide/Cobalt Oxide Nanocomposite on Pencil Graphite Electrode for Highly Sensitive and Selective Detection of Insulin in Pharmaceutical Samples. 2019 , 166, B961-B968		21
101	Electrochemical Biosensors Based on Green Synthesized Graphene and Graphene Nanocomposites. 2019 , 233-296		0
100	Electrochemical Biosensors with Nanointerface for Food, Water Quality, and Healthcare Applications. 2019 , 431-468		2
99	Carbon quantum dot-based composites for energy storage and electrocatalysis: Mechanism, applications and future prospects. 2019 , 66, 104093		95
98	Novel Composite Electrode of the Reduced Graphene Oxide Nanosheets with Gold Nanoparticles Modified by Glucose Oxidase for Electrochemical Reactions. 2019 , 9, 764		3
97	Carbon-based quantum particles: an electroanalytical and biomedical perspective. 2019 , 48, 4281-4316		119
96	Graphene- and Graphene Oxide-Based Nanocomposite Platforms for Electrochemical Biosensing Applications. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	59
95	Carbon Dots and Graphene Quantum Dots in Electrochemical Biosensing. 2019 , 9,		112
94	Graphene-Based Electrochemical Sensors for Biomedical Applications. 2019 , 249-282		3

93	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors.. 2019 , 9, 8778-8881		342
92	Towards a dual in-line electrochemical biosensor for the determination of glucose and hydrogen peroxide. 2019 , 128, 56-65		14
91	Nanomaterials as an Immobilizing Platform for Enzymatic Glucose Biosensors. 2019 , 229-251		1
90	Literature Review. 2019 , 17-81		
89	Carbon Nanodot Composites: Fabrication, Properties, and Environmental and Energy Applications. 2019 , 223-273		1
88	Graphene Quantum Dots in Electrochemical Sensors/Biosensors. 2019 , 15, 103-123		57
87	A simple and flexible enzymatic glucose biosensor using chitosan entrapped mesoporous carbon nanocomposite. <i>Microchemical Journal</i> , 2019 , 147, 848-856	4.8	31
86	Printed Flexible Sensors. 2019 ,		1
85	Highly conductive electrocatalytic gold nanoparticle-assembled carbon fiber electrode for high-performance glucose-based biofuel cells. 2019 , 7, 13495-13505		23
84	Carbon-Based Nanosensor Technology. 2019 ,		3
83	Polyaniline-Derived Nitrogen-Doped Graphene Quantum Dots for the Ultratrace Level Electrochemical Detection of Trinitrophenol and the Effective Differentiation of Nitroaromatics: Structure Matters. 2019 , 7, 6732-6743		36
82	Graphene Quantum Dots as promising probes in electrochemical immunoassay for rapid and sensitive detection of pathogenic <i>Staphylococcus aureus</i> . 2019 ,		1
81	Advances in nanomaterial application in enzyme-based electrochemical biosensors: a review. 2019 , 1, 4560-4577		66
80	Resonance light scattering sensor of the metal complex nanoparticles using diethyl dithiocarbamate doped graphene quantum dots for highly Pb(II)-sensitive detection in water sample. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 207, 79-87	4.4	15
79	Optical, electrochemical and catalytic methods for in-vitro diagnosis using carbonaceous nanoparticles: a review. <i>Mikrochimica Acta</i> , 2019 , 186, 50	5.8	22
78	Defective mesoporous carbon ceramic electrode modified graphene quantum dots as a novel surface-renewable electrode: The application to determination of zolpidem. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 241-246	4.1	7
77	Functionalized nitrogen doped graphene quantum dots and bimetallic Au/Ag core-shell decorated imprinted polymer for electrochemical sensing of anticancerous hydroxyurea. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 10-18	11.8	35
76	Trends on enzyme immobilization researches based on bibliometric analysis. <i>Process Biochemistry</i> , 2019 , 76, 95-110	4.8	73

75	Polydopamine-functionalized graphene nanoplatelet smart conducting electrode for bio-sensing applications. 2020 , 13, 1669-1677		6
74	Electrodeposition of gold nanoparticles on ZnO nanorods for improved performance of enzymatic glucose sensors. 2020 , 105, 104708		18
73	Electron transfer from FAD-dependent glucose dehydrogenase to single-sheet graphene electrodes. 2020 , 330, 134998		6
72	Graphene quantum dots redefine nanobiomedicine. <i>Materials Science and Engineering C</i> , 2020 , 110, 110653	5.1	53
71	Metabolic Syndrome-An Emerging Constellation of Risk Factors: Electrochemical Detection Strategies. <i>Sensors</i> , 2019 , 20,	3.8	3
70	Blue luminescent graphene quantum dot conjugated cysteamine functionalized-gold nanoparticles (GQD-AuNPs) for sensing hazardous dye Erythrosine B. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 229, 117960	4.4	14
69	Immobilization of fenugreek α -amylase onto functionalized graphene quantum dots (GQDs) using Box-Behnken design: Its biochemical, thermodynamic and kinetic studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 170-182	7.9	21
68	Photothermal-enhanced tandem enzyme-like activity of Ag ₂ -xCu _x S nanoparticles for one-step colorimetric glucose detection in unprocessed human urine. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127420	8.5	16
67	Preparation of porous Cu metal organic framework/ZnTe nanorods/Au nanoparticles hybrid platform for nonenzymatic determination of catechol. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 856, 113672	4.1	16
66	L-Alanine-functionalized magnetic graphene oxide quantum dots: an efficient and recyclable heterogeneous basic catalyst for the synthesis of 1H-pyrazolo[1,2-b]phthalazine-5,10-dione and 2,3-dihydroquinazolin-4(1H)-one derivatives. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5872	3.1	1
65	Group IV nanodots: Newly emerging properties and application in biomarkers sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 131, 116007	14.6	35
64	A Critical Review of Electrochemical Glucose Sensing: Evolution of Biosensor Platforms Based on Advanced Nanosystems. <i>Sensors</i> , 2020 , 20,	3.8	50
63	Sulfonic acid-functionalized Fe ₃ O ₄ -supported magnetized graphene oxide quantum dots: A novel organic-inorganic nanocomposite as an efficient and recyclable nanocatalyst for the synthesis of dihydropyrano[2,3-c]pyrazole and 4H-chromene derivatives. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e6004	3.1	3
62	Toxicity Studies on Graphene-Based Nanomaterials in Aquatic Organisms: Current Understanding. <i>Molecules</i> , 2020 , 25,	4.8	14
61	Sustainable GQDs for potential application in engineering using corn powder as green precursor. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 919-924	1.8	3
60	High sensitivity detection of glucose with negatively charged gold nanoparticles functionalized the gate of AlGa _N /Ga _N High Electron Mobility Transistor. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112128	3.9	6
59	Nanobiosensing with graphene and carbon quantum dots: Recent advances. <i>Materials Today</i> , 2020 , 39, 23-46	21.8	30
58	Ultra-sensitive molecularly imprinted electrochemical sensor for patulin detection based on a novel assembling strategy using Au@Cu-MOF/N-GQDs. <i>Sensors and Actuators B: Chemical</i> , 2020 , 318, 128219	8.5	61

57	Magnetic properties of graphene-like quantum dots doped with magnetic ions. <i>Chinese Journal of Physics</i> , 2020 , 66, 390-400	3.5	12
56	Enhanced Electrochemical Characteristics of the Glucose Oxidase Bioelectrode Constructed by Carboxyl-Functionalized Mesoporous Carbon. <i>Sensors</i> , 2020 , 20,	3.8	5
55	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <i>Progress in Materials Science</i> , 2020 , 113, 100665	42.2	37
54	Applications of Graphene Quantum Dots in Biomedical Sensors. <i>Sensors</i> , 2020 , 20,	3.8	75
53	Electrochemical biosensing platforms on the basis of reduced graphene oxide and its composites with Au nanodots. <i>Analyst, The</i> , 2020 , 145, 3749-3756	5	4
52	Graphene quantum dot electrochemiluminescence increase by bio-generated HO and its application in direct biosensing. <i>Royal Society Open Science</i> , 2020 , 7, 191404	3.3	5
51	Simultaneous determination of ascorbic acid, dopamine, and uric acid using graphene quantum dots/ionic liquid modified screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 314, 128059	8.5	56
50	A graphene-laminated electrode with high glucose oxidase loading for highly-sensitive glucose detection. <i>Journal of Materials Science and Technology</i> , 2021 , 66, 57-63	9.1	8
49	Carbon Nanodots in Electrochemical Sensors and Biosensors: A Review. <i>ChemElectroChem</i> , 2021 , 8, 15-35.	4.3	20
48	A critical review on quantum dots: From synthesis toward applications in electrochemical biosensors for determination of disease-related biomolecules. <i>Talanta</i> , 2021 , 224, 121828	6.2	39
47	Carbon and graphene quantum dots in fuel cell application: An overview. <i>International Journal of Energy Research</i> , 2021 , 45, 1396-1424	4.5	21
46	Chiral Control of Carbon Dots via Surface Modification for Tuning the Enzymatic Activity of Glucose Oxidase. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5877-5886	9.5	14
45	Red-fluorescent graphene quantum dots from guava leaf as a turn-off probe for sensing aqueous Hg(II). <i>New Journal of Chemistry</i> , 2021 , 45, 4617-4625	3.6	9
44	Quantum-Dot-Based Photoelectrochemical Biosensors: Principles, Fabrication, and Applications. 2021 , 23-40		
43	Quantum dots-based sensors using solid electrodes. 2021 , 81-120		
42	An overview on the incorporation of graphene quantum dots on TiO ₂ for enhanced performances. <i>Journal of Materials Science</i> , 2021 , 56, 6031-6051	4.3	8
41	Overview of Raman Spectroscopy: Fundamental to Applications. <i>Progress in Optical Science and Photonics</i> , 2021 , 145-184	0.3	1
40	Orientated Immobilization of FAD-Dependent Glucose Dehydrogenase on Electrode by Carbohydrate-Binding Module Fusion for Efficient Glucose Assay. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1

39	A fluorescent biosensor based on graphene quantum dots/zirconium-based metal-organic framework nanocomposite as a peroxidase mimic for cholesterol monitoring in human serum. <i>Microchemical Journal</i> , 2021 , 164, 106001	4.8	8
38	Protein Corona Hinders N-CQDs Oxidative Potential and Favors Their Application as Nanobiocatalytic System. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
37	Electroanalytical overview: utilising micro- and nano-dimensional sized materials in electrochemical-based biosensing platforms. <i>Mikrochimica Acta</i> , 2021 , 188, 268	5.8	12
36	Glucose detection by gold modified carboxyl-functionalized graphene quantum dots-based surface plasmon resonance. <i>Optik</i> , 2021 , 239, 166779	2.5	7
35	Direct epitaxial growth of nickel phosphide nanosheets on nickel foam as self-support electrode for efficient non-enzymatic glucose sensing. <i>Nanotechnology</i> , 2021 , 32,	3.4	1
34	Recent advances in developing optical and electrochemical sensors for analysis of methamphetamine: A review. <i>Chemosphere</i> , 2021 , 278, 130393	8.4	9
33	Multi-Purpose electrochemical tyrosinase nanobiosensor based on poly (3,4 ethylenedioxythiophene) nanoparticles decorated graphene quantum dots: Applications to hormone drugs analyses and inhibition studies. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130164	8.5	3
32	Flexible and highly sensitive methadone sensor based on gold nanoparticles/polythiophene modified carbon cloth platform. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130284	8.5	7
31	Nanostructure-mediated glucose oxidase biofunctionalization for monitoring gestational diabetes. <i>Process Biochemistry</i> , 2021 , 110, 19-25	4.8	0
30	Enzyme-based electrochemical nanobiosensors using quantum dots. 2021 , 307-339		1
29	Chapter 4:Carbon Nanomaterials in Optical Detection. <i>RSC Detection Science</i> , 2018 , 105-149	0.4	1
28	Electrochemical impedimetric analysis of different dimensional (0D/1D) carbon nanomaterials for effective biosensing of L-tyrosine. <i>Measurement Science and Technology</i> , 2022 , 33, 014002	2	0
27	Sensitive glucose biosensor based on cyclodextrin modified carbon nanotubes for detecting glucose in honey. <i>Journal of Food Composition and Analysis</i> , 2022 , 105, 104221	4.1	2
26	Immobilization: Then and Now. <i>Gels Horizons: From Science To Smart Materials</i> , 2021 , 1-84		1
25	Biosensing Applications of Electrode Materials. <i>Engineering Materials</i> , 2022 , 187-231	0.4	0
24	Cu ²⁺ Induced Regulation and Construction of Fad-Mb/Cu-Mb@Aunps Bifunctional Mimetic Enzyme and Application in Glucose Visualization Detection. <i>SSRN Electronic Journal</i> ,	1	
23	Enzyme immobilized nanomaterials. 2022 , 17-65		
22	Cu ²⁺ induced Regulation and construction of FAD-Mb/Cu-Mb@AuNPs Bi-functional mimetic enzyme and application in glucose visualization detection. <i>Microchemical Journal</i> , 2022 , 175, 107207	4.8	0

21	A sensitive cholesterol electrochemical biosensor based on biomimetic cerasome and graphene quantum dots.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	2
20	Recent Advances in K-SPR Sensors for the Detection of Biomolecules and Microorganisms: A Review. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	3
19	Immobilization of papain on nitrogen-doped graphene quantum dots improves the enzymatic properties and makes it a biosensor for cystatin C. <i>Process Biochemistry</i> , 2022 , 118, 307-316	4.8	0
18	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. <i>Journal of Materials Research and Technology</i> , 2022 , 19, 2657-2694	5.5	3
17	Why is graphene an extraordinary material? A review based on a decade of research. <i>Frontiers of Materials Science</i> , 2022 , 16,	2.5	0
16	The valorisation of grass waste for the green synthesis of graphene quantum dots for nonlinear optical applications. 2022 , 132, 112853		0
15	Carbon dots-based electrochemical sensors. 2023 , 109-136		0
14	Graphitic carbon nitride/magnetic chitosan composite for rapid electrochemical detection of lactose. 2023 , 136, 105489		0
13	Graphene oxide-nanocomposite-based electrochemical sensors for the detection of organophosphate pesticides. 2023 , 635-658		0
12	Graphene and Its Derivatives: Synthesis and Application in the Electrochemical Detection of Analytes in Sweat. 2022 , 12, 910		5
11	Progress and challenges of graphene and its congeners for biomedical applications: Drug delivery, gene delivery, biosensing, bioimaging, and tissue engineering. 2022 , 120703		1
10	Detecting Low-Brominated Diphenyl Ethers by Highly Sensitive Biosensors Based on the Blocking Effect on Glucose Oxidase.		0
9	Electrochemical biosensor employing PbS colloidal quantum dots/Au nanospheres-modified electrode for ultrasensitive glucose detection.		1
8	Immobilization of Glucose Oxidase on Glutathione Capped CdTe Quantum Dots for Bioenergy Generation. 2022 , 12, 1659		0
7	Electrochemical biosensors based on in situ grown carbon nanotubes on gold microelectrode array fabricated on glass substrate for glucose determination. 2023 , 190,		1
6	Photophysical Modulation of Rhodamine-B via π -stacking with GQD and Its Further Tuning by Cucurbit[7]uril**. 2023 , 8,		0
5	Synthesis, Characterization, and Electrochemical Evaluation of Copper Sulfide Nanoparticles and Their Application for Non-Enzymatic Glucose Detection in Blood Samples. 2023 , 13, 481		0
4	Controlling the Inkjet Printing Process for Electrochemical (Bio)Sensors. 2201729		0

- 3 Chiral Graphene Quantum Dots Enhanced Drug Loading into Exosomes. ○
- 2 Emerging Two-Dimensional Materials-Based Electrochemical Sensors for Human Health and Environment Applications. **2023**, 13, 780 ○
- 1 Preparation of ZnO-graphene quantum dots nanocomposite embedded in chitosan biopolymer as an efficient adsorbent for Cd²⁺ ions removal from aqueous solutions. 1-15 ○