

Significance of nanomaterials in electrochemical glucos (2016-2020)

Biosensors and Bioelectronics

159, 112165

DOI: [10.1016/j.bios.2020.112165](https://doi.org/10.1016/j.bios.2020.112165)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Metal-plated 3D-printed electrode for electrochemical detection of carbohydrates. <i>Electrochemistry Communications</i> , 2020, 120, 106827.	2.3	46
2	Application of Electrochemical Sensors Based on Carbon Nanomaterials for Detection of Flavonoids. <i>Nanomaterials</i> , 2020, 10, 2020.	1.9	40
3	Sensitive detection of butylated hydroxyanisole based on free-standing paper decorated with gold and NiO nanoparticles. <i>Microchemical Journal</i> , 2020, 159, 105511.	2.3	9
4	Electrochemical glucose sensors in diabetes management: an updated review (2010–2020). <i>Chemical Society Reviews</i> , 2020, 49, 7671-7709.	18.7	460
5	Universal laser-assisted growth of transition metal nanoparticles on a flexible graphene electrode for a nonenzymatic glucose sensor. <i>New Journal of Chemistry</i> , 2020, 44, 17954-17960.	1.4	8
6	Ultrasensitive nonenzymatic electrochemical glucose sensor based on gold nanoparticles and molecularly imprinted polymers. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112432.	5.3	84
7	General and fast synthesis of graphene frameworks using sugars for high-performance hydrogen peroxide nonenzymatic electrochemical sensor. <i>Mikrochimica Acta</i> , 2020, 187, 669.	2.5	7
8	One-step electrochemical sensor based on an integrated probe toward sub-ppt level Pb ²⁺ detection by fast scan voltammetry. <i>Analytica Chimica Acta</i> , 2020, 1128, 174-183.	2.6	7
9	Hierarchical hollow sea-urchin-like Ni–Co diselenide encapsulated in N-doped carbon networks as an advanced core-shell bifunctional electrocatalyst for fabrication of nonenzymatic glucose and hydrogen peroxide sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128730.	4.0	26
10	Progress of Advanced Nanomaterials in the Non-Enzymatic Electrochemical Sensing of Glucose and H ₂ O ₂ . <i>Biosensors</i> , 2020, 10, 151.	2.3	72
11	A Critical Review of Electrochemical Glucose Sensing: Evolution of Biosensor Platforms Based on Advanced Nanosystems. <i>Sensors</i> , 2020, 20, 6013.	2.1	110
12	Applying Nanomaterials to Modern Biomedical Electrochemical Detection of Metabolites, Electrolytes, and Pathogens. <i>Chemosensors</i> , 2020, 8, 71.	1.8	19
13	Carbon-Coated Tungsten Oxide Nanospheres Triggering Flexible Electron Transfer for Efficient Electrocatalytic Oxidation of Water and Glucose. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56943-56953.	4.0	25
14	Electrochemical Oxidation of Monosaccharides at Nanoporous Gold with Controlled Atomic Surface Orientation and Non-Enzymatic Galactose Sensing. <i>Sensors</i> , 2020, 20, 5632.	2.1	6
15	Promises of the “Nano-World” for electrochemical sensing and energy devices. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2189-2191.	1.2	1
16	Non-enzymatic screen printed sensor based on Cu ₂ O nanocubes for glucose determination in bio-fermentation processes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114354.	1.9	52
17	Electrochemical biosensors: a nexus for precision medicine. <i>Drug Discovery Today</i> , 2021, 26, 69-79.	3.2	40
18	Bimetallic CuCo Derived from Prussian Blue Analogue for Nonenzymatic Glucose Sensing. <i>Electroanalysis</i> , 2021, 33, 845-853.	1.5	11

#	ARTICLE	IF	CITATIONS
19	Selectivity, stability and reproducibility effect of CeM - CeO ₂ modified PIGE electrode for photoelectrochemical behaviour of energy application. <i>Surfaces and Interfaces</i> , 2021, 22, 100835.	1.5	19
20	Cobalt metal-organic framework modified carbon cloth/paper hybrid electrochemical button-sensor for nonenzymatic glucose diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129205.	4.0	97
21	Novel hierarchical CuNiAl LDH nanotubes with excellent peroxidase-like activity for wide-range detection of glucose. <i>Dalton Transactions</i> , 2021, 50, 95-102.	1.6	13
22	A dual-template defective 3DOMM-TiO ₂ -x for enhanced non-enzymatic electrochemical glucose determination. <i>Journal of Materials Science</i> , 2021, 56, 3414-3429.	1.7	8
23	Aggregatable thiol-functionalized carbon dots-based fluorescence strategy for highly sensitive detection of glucose based on target-initiated catalytic oxidation. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129325.	4.0	11
24	The impact of chemical engineering and technological advances on managing diabetes: present and future concepts. <i>Chemical Society Reviews</i> , 2021, 50, 2102-2146.	18.7	28
25	Template Removal in Molecular Imprinting: Principles, Strategies, and Challenges. , 2021, , 367-406.		2
26	Long-term In Vivo Monitoring of Chemicals with Fiber Sensors. <i>Advanced Fiber Materials</i> , 2021, 3, 47-58.	7.9	36
27	Nonenzymatic Glucose Sensors Based on Copper Sulfides: Effect of Binder-Particles Interactions in Drop-Casted Suspensions on Electrodes Electrochemical Performance. <i>Sensors</i> , 2021, 21, 802.	2.1	11
28	Poly(3,4-ethylenedioxythiophene) bearing fluoro-containing phenylboronic acid for specific recognition of glucose. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7675-7683.	3.2	7
29	Facet-Dependent Cu ₂ O Electrocatalysis for Wearable Enzyme-Free Smart Sensing. <i>ACS Catalysis</i> , 2021, 11, 2949-2955.	5.5	65
30	Recent Advances in In Vivo Neurochemical Monitoring. <i>Micromachines</i> , 2021, 12, 208.	1.4	25
31	Metal oxide based non-enzymatic electrochemical sensors for glucose detection. <i>Electrochimica Acta</i> , 2021, 370, 137744.	2.6	184
32	Strongyloidiasis Serological Analysis with Three Different Biological Probes and Their Electrochemical Responses in a Screen-Printed Gold Electrode. <i>Sensors</i> , 2021, 21, 1931.	2.1	4
33	An enzymatic glucose sensor based on glucose oxidase immobilized cup-stacked carbon nanofilaments. <i>Tanso</i> , 2021, 2021, 70-75.	0.1	0
34	Nanomaterial-Based Electrochemical Sensors: Mechanism, Preparation, and Application in Biomedicine. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000104.	1.7	30
35	Development of a Glucose Sensor Based on Glucose Dehydrogenase Using Polydopamine-Functionalized Nanotubes. <i>Membranes</i> , 2021, 11, 384.	1.4	20
36	Trending Technology of Glucose Monitoring during COVID-19 Pandemic: Challenges in Personalized Healthcare. <i>Advanced Materials Technologies</i> , 2021, 6, 2100020.	3.0	20

#	ARTICLE	IF	CITATIONS
37	A review on recent advances in hierarchically porous metal and metal oxide nanostructures as electrode materials for supercapacitors and non-enzymatic glucose sensors. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101228.	2.4	42
38	Non-enzymatic glucose biofuel cells based on highly porous Pt _x Ni _{1-x} nanoalloys. <i>Journal of Materials Science</i> , 2021, 56, 13066.	1.7	6
39	Copper and Nickel Microsensors Produced by Selective Laser Reductive Sintering for Non-Enzymatic Glucose Detection. <i>Materials</i> , 2021, 14, 2493.	1.3	14
40	A novel and ultrasensitive electrochemical biosensor based on MnO ₂ -V ₂ O ₅ nanorods for the detection of the antiplatelet prodrug agent Cilostazol in pharmaceutical formulations. <i>Microchemical Journal</i> , 2021, 164, 105946.	2.3	10
41	A high sensitive glucose sensor based on Ag nanodendrites/Cu mesh substrate via surface-enhanced Raman spectroscopy and electrochemical analysis. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158758.	2.8	23
42	Disposable and portable gold nanoparticles modified - laser-scribed graphene sensing strips for electrochemical, non-enzymatic detection of glucose. <i>Electrochimica Acta</i> , 2021, 378, 138132.	2.6	42
43	Biopolymer Cooperation for Sustainable High-Performance Oxidase-Based Biosensing with the Simplest Possible Readout of Substrate Conversion. <i>Advanced Materials Technologies</i> , 2021, 6, 2100096.	3.0	5
44	Engineered CuO Nanofibers with Boosted Non-Enzymatic Glucose Sensing Performance. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067507.	1.3	37
45	Electrochemical microgap immunosensors for selective detection of pathogenic <i>Aspergillus niger</i> . <i>Journal of Hazardous Materials</i> , 2021, 411, 125069.	6.5	7
46	Flexible porous Ni(OH) ₂ nanopetals sandwiches for wearable non-enzyme glucose sensors. <i>Applied Surface Science</i> , 2021, 552, 149529.	3.1	30
47	Review-Perovskite/Spinel Based Graphene Derivatives Electrochemical and Biosensors. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067506.	1.3	15
48	Electrochemical Response of Glucose Oxidase Adsorbed on Laser-Induced Graphene. <i>Nanomaterials</i> , 2021, 11, 1893.	1.9	17
49	Phenylboronic acid functionalized helical long period grating for glucose sensing. <i>Optical Fiber Technology</i> , 2021, 64, 102557.	1.4	3
50	Simple and fast colorimetric and electrochemical methods for the ultrasensitive detection of glucose. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5725-5731.	1.9	8
51	Laser-Assisted Surface Modification of Ni Microstructures with Au and Pt toward Cell Biocompatibility and High Enzyme-Free Glucose Sensing. <i>ACS Omega</i> , 2021, 6, 18099-18109.	1.6	11
52	A limiting current sensor based on porous Ni electrode for ferricyanide and ferrocyanide detection in aqueous solutions. <i>Electrochimica Acta</i> , 2021, 385, 138428.	2.6	2
53	The Impact of Recent Developments in Electrochemical POC Sensor for Blood Sugar Care. <i>Frontiers in Chemistry</i> , 2021, 9, 723186.	1.8	16
54	Engineering of Electron Affinity and Interfacial Charge Transfer of Graphene for Self-Powered Nonenzymatic Biosensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40731-40741.	4.0	26

#	ARTICLE	IF	CITATIONS
55	Postmodulation of the Metal-Organic Framework Precursor toward the Vacancy-Rich Cu ₂ O Transducer for Sensitivity Boost: Synthesis, Catalysis, and H ₂ O ₂ Sensing. <i>Analytical Chemistry</i> , 2021, 93, 11066-11071.	3.2	9
56	Electrodeposition of bimetallic NiPt nanosheet arrays on carbon papers for high performance nonenzymatic disposable glucose sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22493-22505.	1.1	6
57	Novel non-enzymatic glucose biosensor based on electrospun PAN/PANI/CuO nano-composites. <i>Journal of the Textile Institute</i> , 2022, 113, 2100-2107.	1.0	3
58	MoS ₂ /Chitosan/GOx-Gelatin modified graphite surface: Preparation, characterization and its use for glucose determination. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115215.	1.7	13
59	Enzymatic Biosensor Based on One-step Electrodeposition of Graphene-Gold Nanohybrid Materials and its Sensing Performance for Glucose. <i>Electroanalysis</i> , 2021, 33, 2243-2251.	1.5	2
60	Programming a Crab Claw-like DNA Nanomachine as a Super Signal Amplifier for Ultrasensitive Electrochemical Assay of Hg ²⁺ . <i>Analytical Chemistry</i> , 2021, 93, 12075-12080.	3.2	19
61	High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe ₃ O ₄ Magnetic Particles. <i>Micromachines</i> , 2021, 12, 977.	1.4	8
62	In vitro glucose concentration measurement by a reusable enzymatic glucose sensor and a highly stable circular heterodyne polarimeter. <i>Optics Letters</i> , 2021, 46, 5004.	1.7	2
63	Amine mediated synthesis of nickel oxide nanoparticles and their superior electrochemical sensing performance for glucose detection. <i>Inorganic Chemistry Communication</i> , 2021, 131, 108779.	1.8	18
64	Iron, Nitrogen-Doped Carbon Aerogels for Fluorescent and Electrochemical Dual-Mode Detection of Glucose. <i>Langmuir</i> , 2021, 37, 11309-11315.	1.6	34
65	Recent Advances in Non-Enzymatic Glucose Sensors Based on Metal and Metal Oxide Nanostructures for Diabetes Management- A Review. <i>Frontiers in Chemistry</i> , 2021, 9, 748957.	1.8	60
66	NiO-Coated CuCo ₂ O ₄ Nanoneedle Arrays on Carbon Cloth for Non-enzymatic Glucose Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 9821-9830.	2.4	24
67	Thermal stress-induced fabrication of carbon micro/nanostructures and the application in high-performance enzyme-free glucose sensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130364.	4.0	14
68	Cobalt-doped cerium oxide nanocrystals shelled 1D SnO ₂ structures for highly sensitive and selective xanthine detection in biofluids. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 299-309.	5.0	11
69	Plasmonic contact lens materials for glucose sensing in human tears. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130297.	4.0	28
70	Complete fabrication of a nonenzymatic glucose sensor with a wide linear range for the direct testing of blood samples. <i>Electrochimica Acta</i> , 2021, 395, 139145.	2.6	8
71	Design of a bioelectronic tongue for glucose monitoring using zinc oxide nanofibers and graphene derivatives. <i>Sensors and Actuators Reports</i> , 2021, 3, 100050.	2.3	9
72	Co ₃ O ₄ nanoparticles embedded in laser-induced graphene for a flexible and highly sensitive enzyme-free glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130653.	4.0	42

#	ARTICLE	IF	CITATIONS
73	Laser-induced graphene non-enzymatic glucose sensors for on-body measurements. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113606.	5.3	112
74	Engineered Hierarchical CuO Nanoleaves Based Electrochemical Nonenzymatic Biosensor for Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2021, 168, 017501.	1.3	83
75	Recent research trends in voltammetric sensing platforms for hormones and their applications to human serum analyses. <i>Analytical Sciences</i> , 2022, 38, 11-21.	0.8	5
76	High rate fabrication of copper and copper-gold electrodes by laser-induced selective electroless plating for enzyme-free glucose sensing. <i>RSC Advances</i> , 2021, 11, 19521-19530.	1.7	17
77	Facile synthesis of CuCo ₂ O ₄ @NiCo ₂ O ₄ hybrid nanowire arrays on carbon cloth for a multicomponent non-enzymatic glucose sensor. <i>Nanotechnology</i> , 2020, 31, 495708.	1.3	11
78	Hierarchical cage-frame type nanostructure of CeO ₂ for bio sensing applications: from glucose to protein detection. <i>Nanotechnology</i> , 2021, 32, 025504.	1.3	12
79	Recent Advances in Layered Double Hydroxide-Based Electrochemical and Optical Sensors. <i>Nanomaterials</i> , 2021, 11, 2809.	1.9	19
80	3D CoxP@NiCo-LDH heteronanoshet array: As a high sensitivity sensor for glucose. <i>Microchemical Journal</i> , 2022, 172, 106923.	2.3	17
81	Magnetic-field-induced acicular nickel immobilized on carbon nanofibers as electrodes for electrochemical glucose sensing. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 237-245.	2.7	8
82	Bifunctional Ag@Ni-MOF for high performance supercapacitor and glucose sensor. <i>Synthetic Metals</i> , 2021, 282, 116931.	2.1	24
83	Glucose nano biosensor with non-enzymatic excellent sensitivity prepared with nickel-cobalt nanocomposites on f-MWCNT. <i>Chemosphere</i> , 2022, 291, 132720.	4.2	25
84	One-pot electrosynthesis of ultrathin overoxidized poly(3,4-ethylenedioxythiophene) films. <i>Electrochimica Acta</i> , 2022, 401, 139472.	2.6	11
85	Highly sensitive urine glucose detection with graphene field-effect transistors functionalized with electropolymerized nanofilms. <i>Sensors & Diagnostics</i> , 2022, 1, 139-148.	1.9	21
86	A multilevel fluorometric biosensor based on boric acid embedded in carbon dots to detect intracellular and serum glucose. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130898.	4.0	18
87	Thermoplastic Electrode (TPE)-based Enzymatic Glucose Sensor Using Polycaprolactone-graphite Composites. <i>Electroanalysis</i> , 2022, 34, 1869-1876.	1.5	4
88	Copper fumarate with high-bifunctional nanozyme activities at different pH values for glucose and epinephrine colorimetric detection in human serum. <i>Analyst</i> , 2021, 147, 40-47.	1.7	18
89	Current progress in organic-inorganic hetero-nano-interfaces based electrochemical biosensors for healthcare monitoring. <i>Coordination Chemistry Reviews</i> , 2022, 452, 214282.	9.5	57
90	Electrodeposited CuO thin film for wide linear range photoelectrochemical glucose sensing. <i>Applied Surface Science</i> , 2022, 576, 151822.	3.1	14

#	ARTICLE	IF	CITATIONS
91	Reduced Graphene Oxide-Coated Silica Nanospheres as Flexible Enzymatic Biosensors for Detection of Glucose in Sweat. <i>ACS Applied Nano Materials</i> , 2021, 4, 12442-12452.	2.4	24
92	Non-Enzymatic Amperometric Glucose Screen-Printed Sensors Based on Copper and Copper Oxide Particles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10830.	1.3	8
93	Electrochemical Characterization of Modified Glassy Carbon Electrodes for Non-Enzymatic Glucose Sensors. <i>Sensors</i> , 2021, 21, 7928.	2.1	6
94	Thermal Detection of Glucose in Urine Using a Molecularly Imprinted Polymer as a Recognition Element. <i>ACS Sensors</i> , 2021, 6, 4515-4525.	4.0	26
95	Highly sensitive and selective non-enzymatic measurement of glucose using arraying of two separate sweat sensors at physiological pH. <i>Electrochimica Acta</i> , 2022, 404, 139749.	2.6	8
96	Three-dimensional flexible polyurethane decorated with Ni and reduced graphene oxide for high-sensitive sensing of glucose. <i>Materials Chemistry and Physics</i> , 2022, 278, 125679.	2.0	6
97	A self-powered closed-loop brain-machine-interface system for real-time detecting and rapidly adjusting blood glucose concentration. <i>Nano Energy</i> , 2022, 93, 106817.	8.2	18
98	Photoinduced phase-transition on CuO electrospun nanofibers over the TiO ₂ photosensitizer for enhancing non-enzymatic glucose-sensing performance. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163409.	2.8	8
99	Single-Atom Pt Boosting Electrochemical Nonenzymatic Glucose Sensing on Ni(OH) ₂ /N-Doped Graphene. <i>Analytical Chemistry</i> , 2022, 94, 1919-1924.	3.2	51
100	Electrochemical sensors for agricultural application. , 2022, , 147-164.		0
101	Effect of Pt-Ni deposition sequence on the bimetal-modified boron-doped diamond on catalytic performance for glucose oxidation in neutral media. <i>Journal of Electroanalytical Chemistry</i> , 2022, 907, 116084.	1.9	1
102	Bismuth and metal-doped bismuth nanoparticles produced by laser ablation for electrochemical glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131334.	4.0	11
103	Fabrication of porous nickel (II)-based MOF@carbon nanofiber hybrid mat for high-performance non-enzymatic glucose sensing. <i>Materials Science in Semiconductor Processing</i> , 2022, 142, 106500.	1.9	22
104	A review of noninvasive methods applied in diabetes management and treatment. , 2022, , 157-230.		0
105	Diabetes in general. , 2022, , 27-92.		1
106	Enzyme-free glucose sensors with efficient synergistic electro-catalysis based on a ferrocene derivative and two metal nanoparticles. <i>RSC Advances</i> , 2022, 12, 5072-5079.	1.7	12
107	Binder free 3D core-shell NiFe layered double hydroxide (LDH) nanosheets (NSs) supported on Cu foam as a highly efficient non-enzymatic glucose sensor. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 865-875.	5.0	25
108	Development of an electrochemical nanoplatform for non-enzymatic glucose sensing based on Cu/ZnO nanocomposite. <i>Materials Chemistry and Physics</i> , 2022, 280, 125844.	2.0	12

#	ARTICLE	IF	CITATIONS
109	Facile synthesis of bamboo-like Ni ₃ S ₂ @NCNT as efficient and stable electrocatalysts for non-enzymatic glucose detection. <i>Applied Surface Science</i> , 2022, 585, 152683.	3.1	21
110	Surface modification with nanomaterials for electrochemical biosensing application. , 2022, , 101-120.		1
111	Highly Conductive Melanin-like Polymer Composites for Nonenzymatic Glucose Biosensors with a Wide Detection Range. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2527-2535.	2.0	5
112	Enhanced analytical performance of disposable 3D carbon electrodes prepared with stainless steel wire mesh. <i>Analytica Chimica Acta</i> , 2022, 1202, 339674.	2.6	2
113	The Facile Preparation of PBA-GO-CuO-Modified Electrochemical Biosensor Used for the Measurement of Î±-Amylase Inhibitorsâ€™ Activity. <i>Molecules</i> , 2022, 27, 2395.	1.7	2
114	Flexible carbon cloth in-situ assembling WO ₃ microsheets bunches with Ni dopants for non-enzymatic glucose sensing. <i>Applied Surface Science</i> , 2022, 586, 152822.	3.1	10
115	Tuning of Co ₃ X ₄ (X=O, S, Se) by anion substitution for highly electrochemical sensing of glucose. <i>Microchemical Journal</i> , 2022, 179, 107436.	2.3	1
116	Recent trends in layered double hydroxides based electrochemical and optical (bio)sensors for screening of emerging pharmaceutical compounds. <i>Environmental Research</i> , 2022, 211, 113068.	3.7	21
117	Synthesis of CoNi ₂ S ₄ Nanoflake-modified Nickel Wire Electrode for Sensitive Non-enzymatic Detection of Glucose. <i>Sensors and Actuators Reports</i> , 2022, 4, 100090.	2.3	4
118	Ferroceneâ€™functionalized Multiwalled Carbon Nanotubes for the Simultaneous Determination of Dopamine, Uric Acid, and Xanthine. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	2
119	Nano-tattoosâ€™ a novel approach for glucose monitoring and diabetes management. , 2022, , 97-110.		0
120	Nanomaterials as glucose sensors for diabetes monitoring. , 2022, , 59-95.		0
121	ZIFs derived polyhedron with cobalt oxide nanoparticles as novel nanozyme for the biomimetic catalytic oxidation of glucose and non-enzymatic sensor. <i>Analytica Chimica Acta</i> , 2022, 1209, 339839.	2.6	9
122	Effect of Ethanol Consumption on the Accuracy of a Glucose Oxidase-Based Subcutaneous Glucose Sensor in Subjects with Type 1 Diabetes. <i>Sensors</i> , 2022, 22, 3101.	2.1	1
123	High performance of non-enzymatic glucose biosensors based on the design of microstructure of Ni ₂ P/Cu ₃ P nanocomposites. <i>Applied Surface Science</i> , 2022, 593, 153395.	3.1	10
124	Multifunctional flexible contact lens for eye health monitoring using inorganic magnetic oxide nanosheets. <i>Journal of Nanobiotechnology</i> , 2022, 20, 202.	4.2	8
125	Green Fabrication of Nonenzymatic Glucose Sensor Using Multi-Walled Carbon Nanotubes Decorated with Copper (II) Oxide Nanoparticles for Tear Fluid Analysis. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 3689-3705.	1.4	3
126	Electron Beam-Induced Modifications in Dielectric and AC Electrical Properties of Gelatin-Acrylic Acid Blends. <i>Journal of Electronic Materials</i> , 2022, 51, 3925-3943.	1.0	3

#	ARTICLE	IF	CITATIONS
127	Carbon Paste Electrochemical Sensors for the Detection of Neurotransmitters. <i>Frontiers in Sensors</i> , 2022, 3, .	1.7	5
128	In-situ preparation of lactate-sensing membrane for the noninvasive and wearable analysis of sweat. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114303.	5.3	30
129	Electrospinning one-dimensional surface-phosphorized CuCo/C nanofibers for enzyme-free glucose sensing. <i>New Journal of Chemistry</i> , 2022, 46, 11531-11539.	1.4	2
130	Construction of a binder-free non-enzymatic glucose sensor based on Cu@Ni core-shell nanoparticles anchored on 3D chiral carbon nanocoils-nickel foam hierarchical scaffold. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 320-337.	5.0	35
131	A study on the recent developments in voltammetric sensors for the β -blocker propranolol hydrochloride. , 2022, , 23-31.		0
132	Nanomaterials for virus sensing and tracking. <i>Chemical Society Reviews</i> , 2022, 51, 5805-5841.	18.7	23
133	Biomedical Applications of polymeric micelles in the treatment of diabetes mellitus: Current success and future approaches. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 771-793.	2.4	4
134	Laser-assisted surface activation for fabrication of flexible non-enzymatic Cu-based sensors. <i>Mikrochimica Acta</i> , 2022, 189, .	2.5	10
135	Quasi-aligned Cu ₂ S/Cu(OH) ₂ nanorod arrays anchored on Cu foam as self-supported electrode for non-enzymatic glucose detection. <i>Nanotechnology</i> , 2022, 33, 385501.	1.3	4
136	Electrode surface roughness greatly enhances the sensitivity of electrochemical non-enzymatic glucose sensors. <i>Journal of Electroanalytical Chemistry</i> , 2022, 919, 116541.	1.9	3
137	A review on the current progress of layered double hydroxide application in biomedical sectors. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	4
138	Wearable Electrochemical Sensors for Monitoring of Glucose and Electroactive Drugs. <i>International Journal of Electrochemical Science</i> , 2022, 17, 220841.	0.5	4
139	Smartphone-Based Electrochemical Systems for Glucose Monitoring in Biofluids: A Review. <i>Sensors</i> , 2022, 22, 5670.	2.1	12
141	Enhanced Electrocatalytic Activity and Ultrasensitive Enzyme-Free Glucose Sensing Based on Heterogeneous Co(OH) ₂ Nanosheets/CuO Microcoral Arrays via Interface Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 12567-12575.	1.8	2
142	Surface modification of copper selenide for reliable non-enzymatic glucose sensing. <i>Materials Today Sustainability</i> , 2022, 20, 100215.	1.9	6
143	Highly stable, stretchable, and transparent electrodes based on dual-headed Ag@Au core-sheath nanomatchsticks for non-enzymatic glucose biosensor. <i>Nano Research</i> , 2023, 16, 1558-1567.	5.8	5
144	A fully handwritten-on-paper copper nanoparticle ink-based electroanalytical sweat glucose biosensor fabricated using dual-step pencil and pen approach. <i>Analytica Chimica Acta</i> , 2022, 1227, 340257.	2.6	7
145	Electrospun nanofiber-based glucose sensors for glucose detection. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	50

#	ARTICLE	IF	CITATIONS
146	A stable glucose sensor with direct electron transfer, based on glucose dehydrogenase and chitosan hydro bonded multi-walled carbon nanotubes. <i>Biochemical Engineering Journal</i> , 2022, 187, 108589.	1.8	6
147	Effects of nickel-cobalt material properties on glucose catalysis. <i>Microchemical Journal</i> , 2022, 182, 107950.	2.3	0
148	Dual-strategy biosensing of glucose based on multifunctional CuWO ₄ nanoparticles. <i>Analyst, The</i> , 2022, 147, 4049-4054.	1.7	6
149	One-Step Synthesis of Copper-Platinum Nanoparticles Modified Electrode for Non-Enzymatic Salivary Glucose Detection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
150	Minimally Invasive Implant Type Electromagnetic Biosensor for Continuous Glucose Monitoring System: In Vivo Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 1000-1011.	2.5	5
151	An Electrochemical Nonenzymatic Microsensor Modified by CuCo ₂ O ₄ Nanoparticles for Glucose Sensing. <i>IEEE Sensors Journal</i> , 2022, 22, 21462-21469.	2.4	3
152	Chronoampermetric detection of enzymatic glucose sensor based on doped polyindole/MWCNT composites modified onto screen-printed carbon electrode as portable sensing device for diabetes. <i>RSC Advances</i> , 2022, 12, 28505-28518.	1.7	9
153	La(OH) ₃ Multi-Walled Carbon Nanotube/Carbon Paste-Based Sensing Approach for the Detection of Uric Acid—A Product of Environmentally Stressed Cells. <i>Biosensors</i> , 2022, 12, 705.	2.3	6
154	Graphene Oxide/Multiwalled Carbon Nanotubes Assisted Serial Quadruple Tapered Structure-Based LSPR Sensor for Glucose Detection. <i>IEEE Sensors Journal</i> , 2022, 22, 16904-16911.	2.4	75
155	Nanostructured Nickel-based Non-enzymatic Electrochemical Glucose Sensors. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	8
156	Dual-function glucose and hydrogen peroxide sensors based on Copper-embedded porous carbon composites. <i>Journal of Electroanalytical Chemistry</i> , 2022, 924, 116881.	1.9	2
157	Nickel-based catalysts for non-enzymatic electrochemical sensing of glucose: A review. <i>Physics in Medicine</i> , 2022, 14, 100054.	0.6	13
158	Surface charge modulation enhanced high stability of gold oxidation intermediates for electrochemical glucose sensors. <i>Analytical Methods</i> , 2022, 14, 4474-4484.	1.3	2
159	High-Linearity Hydrogel-Based Capacitive Sensor Based on Con A—Sugar Affinity and Low-Melting-Point Metal. <i>Polymers</i> , 2022, 14, 4302.	2.0	2
160	Glucose test strips with the largest linear range made via single step modification by glucose oxidase-hexacyanoferrate-chitosan mixture. <i>Biosensors and Bioelectronics</i> , 2023, 220, 114851.	5.3	6
161	Constructing heterointerface of crystalline Au nanoparticles and amorphous porous CoSnO ₃ nanocubes for sensitive electrochemical detection of glucose. <i>Microchemical Journal</i> , 2022, 183, 108039.	2.3	3
162	Structural design of electrospun nanofibers for electrochemical energy storage and conversion. <i>Journal of Alloys and Compounds</i> , 2023, 935, 167920.	2.8	8
163	Stable, reproducible, and binder-free gold/copper core-shell nanostructures for high-sensitive non-enzymatic glucose detection. <i>Scientific Reports</i> , 2022, 12, .	1.6	4

#	ARTICLE	IF	CITATIONS
164	Triple tapered SMF sensor probes for glucose detection based on LSPR. , 2023, , .		0
165	Phenylboronic acid conjugated poly(3,4-ethylenedioxythiophene) (PEDOT) coated Ag dendrite for electrochemical non-enzymatic glucose sensing. New Journal of Chemistry, 0, , .	1.4	0
166	In-situ construction of Au/Cu ₂ O nanowire arrays for sensitive glucose sensing. Talanta, 2023, 254, 124194.	2.9	7
167	Growth of Ni-Co-S Nanoflakes on Ni Bowl-Like Micro/Nano Array as a Non-Enzymatic Electrode for Detection of Glucose. Journal of Nano Research, 0, 76, 39-47.	0.8	0
168	Decorating NiCo alloy nanosheet arrays with Pt nanoparticles on carbon paper for highly sensitive glucose sensing. Bulletin of Materials Science, 2022, 45, .	0.8	0
169	Electrochemical Sensing Platform based on Greenly Synthesized Gum Arabic Stabilized Silver Nanoparticles for Hydrogen Peroxide and Glucose. Journal of the Electrochemical Society, 2022, 169, 127519.	1.3	5
170	MOF derived core-shell CuO/C with temperature-controlled oxygen-vacancy for real time analysis of glucose. Journal of Nanobiotechnology, 2022, 20, .	4.2	7
171	Gold Nanoclusters Dispersed on Gold Dendrite-Based Carbon Fibre Microelectrodes for the Sensitive Detection of Nitric Oxide in Human Serum. Biosensors, 2022, 12, 1128.	2.3	4
172	Oxalamide Based Fe(II)-MOFs as Potential Electrode Modifiers for Glucose Detection. Chemistry, 2023, 5, 19-30.	0.9	0
173	Progress of Enzymatic and Non-Enzymatic Electrochemical Glucose Biosensor Based on Nanomaterial-Modified Electrode. Biosensors, 2022, 12, 1136.	2.3	29
174	Leveraging the future of diagnosis and management of diabetes: From old indexes to new technologies. European Journal of Clinical Investigation, 2023, 53, .	1.7	2
175	Highly Sensitive ZnO/Au Nanosquare Arrays Electrode for Glucose Biosensing by Electrochemical and Optical Detection. Molecules, 2023, 28, 617.	1.7	4
176	Cavitation regulated sonochemical synthesis of flexible self-supported CuO@PDA/CC electrode for highly sensitive glucose sensor. Electrochimica Acta, 2023, 441, 141801.	2.6	1
177	Boosting Electrochemical Catalysis and Nonenzymatic Sensing Toward Glucose by Single-Atom Pt Supported on Cu@CuO Core-Shell Nanowires. Small, 2023, 19, .	5.2	12
178	Biosensors for organs-on-a-chip and organoids. , 2023, , 471-514.		0
179	A sprayed graphene transistor platform for rapid and low-cost chemical sensing. Nanoscale, 0, , .	2.8	0
180	Biosensors for virus detection. , 2023, , 53-80.		2
181	Biosensors for glucose detection. , 2023, , 235-259.		1

#	ARTICLE	IF	CITATIONS
182	Conformational-switch biosensors as novel tools to support continuous, real-time molecular monitoring in lab-on-a-chip devices. <i>Lab on A Chip</i> , 2023, 23, 1339-1348.	3.1	9
183	Reduced graphene oxide cotton fabric based on copper nanowires for flexible non-enzyme glucose sensor. <i>Cellulose</i> , 2023, 30, 5131-5143.	2.4	1
184	Trends in bimetallic nanomaterials and methods for fourth-generation glucose sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2023, 162, 117042.	5.8	5
185	Review of oxygen-vacancies nanomaterials for non-enzymatic electrochemical sensors application. <i>Coordination Chemistry Reviews</i> , 2023, 484, 215102.	9.5	6
186	High-performance enzyme-free glucose and hydrogen peroxide sensors based on bimetallic AuCu nanoparticles coupled with multi-walled carbon nanotubes. <i>Microchemical Journal</i> , 2023, 189, 108504.	2.3	5
187	NiNP/Cu-MOF-C/GCE for the the noninvasive detection of glucose in natural saliva samples. <i>Microchemical Journal</i> , 2023, 190, 108657.	2.3	3
188	Nanotechnology-Assisted Biosensors for the Detection of Viral Nucleic Acids: An Overview. <i>Biosensors</i> , 2023, 13, 208.	2.3	7
189	Eco-friendly fabrication of nonenzymatic electrochemical sensor based on cobalt/polymelamine/nitrogen-doped graphitic-porous carbon nano hybrid material for glucose monitoring in human blood. <i>Environmental Research</i> , 2023, 223, 115403.	3.7	4
190	Non-enzymatic rapid sensing platform based on iron doped lead sulfide nano-interfaces for chloramphenicol. <i>Inorganic Chemistry Communication</i> , 2023, 150, 110487.	1.8	0
191	CDs-Peroxyfluor Conjugation for Ratiometric Fluorescence Detection of Glucose and Shortening Its Detection Time from Reaction Dynamic Perspective. <i>Biosensors</i> , 2023, 13, 222.	2.3	0
192	Porous nitrogen-doped reduced graphene oxide-supported CuO@Cu ₂ O hybrid electrodes for highly sensitive enzyme-free glucose biosensor. <i>IScience</i> , 2023, 26, 106155.	1.9	3
193	Sugar Molecules Detection via C ₂ N Transistor-Based Sensor: First Principles Modeling. <i>Nanomaterials</i> , 2023, 13, 700.	1.9	2
194	Polymer and biopolymer based nanocomposites for glucose sensing. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2024, 73, 490-521.	1.8	2
195	An enzyme-free Ti ₃ C ₂ /Ni/Sm-LDH-based screen-printed-electrode for real-time sweat detection of glucose. <i>Analytica Chimica Acta</i> , 2023, 1250, 340981.	2.6	17
196	Recent advances in MXenes-based glucose biosensors. <i>Chinese Chemical Letters</i> , 2023, 34, 108241.	4.8	5
197	Difunctional Hydrogel Optical Fiber Fluorescence Sensor for Continuous and Simultaneous Monitoring of Glucose and pH. <i>Biosensors</i> , 2023, 13, 287.	2.3	8
198	Electrochemical Biosensors in Agricultural and Veterinary Applications. , 2023, , 349-385.		1
199	Monitoring and sensing of glucose molecule by micropillar coated electrochemical biosensor via CuO/[Fe(CN) ₆] ³⁻ and its applications. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0

#	ARTICLE	IF	CITATIONS
200	The Enzymatic Doped/Undoped Poly-Silicon Nanowire Sensor for Glucose Concentration Measurement. <i>Sensors</i> , 2023, 23, 3166.	2.1	0
201	Biofunctionalized 3D printed structures for biomedical applications: A critical review of recent advances and future prospects. <i>Progress in Materials Science</i> , 2023, 137, 101124.	16.0	6
202	Nanomaterials integrated with microfluidic paper-based analytical devices for enzyme-free glucose quantification. <i>Talanta</i> , 2023, 260, 124538.	2.9	6
206	Direct glucose fuel cell towards a self-powered point-of-care nanobiosensor. , 2023, , 505-549.		0
237	Sensitivity enhancement of nickel nanowire-gated FET glucose sensor using graphene film as intermediate layer. , 2023, , .		0
238	Electrochemical Biosensors for Metabolites Detection. , 2023, , 77-99.		0
247	Conductive polymer nanocomposites: recent advances in the construction of electrochemical biosensors. <i>Sensors & Diagnostics</i> , 2024, 3, 165-180.	1.9	0
261	Wearable flexible biosensing devices contributing to modern precision medicine. , 2024, , 267-313.		0