A highly sensitive nonenzymatic glucose sensor based on CuO nanoparticles-modified carbon nanotube electrode

DOI: 10.1016/j.bios.2009.10.038
Biosensors and Bioelectronics, 2010, 25, 1402-7.

#	Paper	IF	Citations
578	A highly sensitive hydrogen peroxide amperometric sensor based on MnO2-modified vertically aligned multiwalled carbon nanotubes. *Analytica Chimica Acta*, **2010**, 674, 20-6	6.6	136
577	Intense pulsed light induced platinum-gold alloy formation on carbon nanotubes for non-enzymatic glucose detection. *Biosensors and Bioelectronics*, **2010**, 26, 602-7	11.8	110
576	Copper Oxide Nanoparticle Modified Sol□Gel-Derived Carbon Ceramic by Microwave Irradiation, and Its Application for Determination of Adenine at Very Low Potential. *Electroanalysis*, **2010**, 23, n/a-n/a	3	1
575	Electrospun Co3O4 nanofibers for sensitive and selective glucose detection. *Biosensors and Bioelectronics*, **2010**, 26, 542-8	11.8	562
574	Functional hybrid materials based on carbon nanotubes and metal oxides. **2010**, 20, 6383		179
573	The calibration of carbon nanotube based bionanosensors. **2010**, 107, 124322		62
572	A comprehensive review of glucose biosensors based on nanostructured metal-oxides. **2010**, 10, 4855-86		580
571	Nanosensors and nanomaterials for monitoring glucose in diabetes. **2010**, 16, 584-93		234
570	Preparation and characterization of NiO□Ag nanofibers, NiO nanofibers, and porous Ag: towards the development of a highly sensitive and selective non-enzymatic glucose sensor. **2010**, 20, 9918		164
569	Self-assembly of layered double hydroxide nanosheets/Au nanoparticles ultrathin films for enzyme-free electrocatalysis of glucose. **2011**, 21, 13926		83
568	Boron-Nitride Nanotubes as Zeptogram-Scale Bionanosensors: Theoretical Investigations. **2011**, 10, 659-667		49
567	Enzyme-free amperometric sensing of hydrogen peroxide and glucose at a hierarchical Cu2O modified electrode. *Talanta*, **2011**, 85, 1260-4	6.2	100
566	A new method for fabricating a CuO/TiO2 nanotube arrays electrode and its application as a sensitive nonenzymatic glucose sensor. *Talanta*, **2011**, 86, 157-63	6.2	122
565	Highly sensitive nonenzymatic glucose sensor based on electrospun copper oxide-doped nickel oxide composite microfibers. *Talanta*, **2011**, 86, 214-20	6.2	64
564	Fabrication of CuO nanoplatelets for highly sensitive enzyme-free determination of glucose. **2011**, 56, 7510-7516		126
563	Sensitive and selective nonenzymatic glucose detection using functional NiO□Pt hybrid nanofibers. **2011**, 58, 209-214		72
562	Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose. *Biosensors and Bioelectronics*, **2011**, 27, 125-31	11.8	167

561	A novel NiO-Au hybrid nanobelts based sensor for sensitive and selective glucose detection. *Biosensors and Bioelectronics*, **2011**, 28, 393-8	11.8	122
560	Real-time measurement of glucose using chrono-impedance technique on a second generation biosensor. *Biosensors and Bioelectronics*, **2011**, 29, 200-3	11.8	13
559	Emerging Applications of Carbon Nanotubes **2011**, 23, 646-657		584
558	Sputtering deposition of Pt nanoparticles on vertically aligned multiwalled carbon nanotubes for sensing L-cysteine. *Mikrochimica Acta*, **2011**, 172, 439-446	5.8	15
557	Imprinted sol-gel electrochemical sensor for the determination of benzylpenicillin based on Fe3O4@SiO2/multi-walled carbon nanotubes-chitosans nanocomposite film modified carbon electrode. *Analytica Chimica Acta*, **2011**, 698, 61-8	6.6	56
556	Development of Cu2O/Carbon Vulcan XC-72 as non-enzymatic sensor for glucose determination. *Biosensors and Bioelectronics*, **2011**, 26, 3542-8	11.8	127
555	A coral-like macroporous gold platinum hybrid 3D electrode for enzyme-free glucose detection. **2011**, 155, 134-139		40
554	Nano-CuO inhibited voltage-gated sodium current of hippocampal CA1 neurons via reactive oxygen species but independent from G-proteins pathway. **2011**, 31, 439-45		29
553	A highly sensitive nanostructure-based electrochemical sensor for electrocatalytic determination of norepinephrine in the presence of acetaminophen and tryptophan. *Biosensors and Bioelectronics*, **2011**, 26, 2102-6	11.8	78
552	Discharge performance of a primary alkaline CuO cathode material prepared via a novel non-aqueous precipitation method. **2011**, 56, 4996-5002		8
551	Nonenzymatic glucose sensing based on deposited palladium nanoparticles on epoxy-silver electrodes. **2011**, 56, 5855-5859		36
550	Aligned SWCNT-copper oxide array as a nonenzymatic electrochemical probe of glucose. **2011**, 13, 363-365		42
549	The nanocomposite of PtPd nanoparticles/onion-like mesoporous carbon vesicle for nonenzymatic amperometric sensing of glucose. **2011**, 157, 662-668		99
548	Development of flexible Cu-MWCT composite thin film for functional applications. **2012**,		
547	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. **2012**, 4, 3123-7		213
546	CuO Microspheres Modified Glassy Carbon Electrodes as Sensor Materials and Fuel Cell Catalysts. *Journal of the Electrochemical Society*, **2012**, 159, F73-F80	3.9	26
545	One-pot synthesis of CuO nanoflower-decorated reduced graphene oxide and its application to photocatalytic degradation of dyes. **2012**, 2, 339-344		146
544	Effect of preparation conditions on the performance of nano Pt-CuO/C electrocatalysts for methanol electro-oxidation. **2012**, 37, 18870-18881		41

543	Development of copper based drugs, radiopharmaceuticals and medical materials. **2012**, 25, 1089-112		115
542	Smart wearable systems: current status and future challenges. **2012**, 56, 137-56		534
541	A sensitive non-enzymatic glucose sensor in alkaline media based on Cu/MnO2-modified glassy carbon electrode. **2012**, 9, 1007-1014		22
540	Pt□Au nanocorals, Pt nanofibers and Au microparticles prepared by electrospinning and calcination for nonenzymatic glucose sensing in neutral and alkaline environment. **2012**, 171-172, 954-961		37
539	Functionalization of silver nanowire surfaces with copper oxide for surface-enhanced Raman spectroscopic bio-sensing. **2012**, 22, 15495		33
538	Zeptogram sensing from gigahertz vibration: Graphene based nanosensor. **2012**, 44, 1528-1534		48
537	Fabrication of a tunable glucose biosensor based on zinc oxide/chitosan-graft-poly(vinyl alcohol) core-shell nanocomposite. *Talanta*, **2012**, 99, 283-7	6.2	72
536	High-sensitivity non-enzymatic glucose biosensor based on Cu(OH)2 nanoflower electrode covered with boron-doped nanocrystalline diamond layer. **2012**, 520, 7219-7223		27
535	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. **2012**, 12, 5996-6022		368
534	A simple route for preparation of highly stable CuO nanoparticles for nonenzymatic glucose detection. **2012**, 2, 813		77
533	Preparation, characterization and application of novel conductive NiO□dO nanofibers with dislocation feature. **2012**, 22, 980-986		43
532	A non-enzymatic amperometric sensor for glucose based on cobalt oxide nanoparticles. **2012**, 7, 529-546		32
531	A novel non-enzymatic glucose sensor based on Cu nanoparticle modified graphene sheets electrode. *Analytica Chimica Acta*, **2012**, 709, 47-53	6.6	436
530	The effects of carbon nanotube addition and oxyfluorination on the glucose-sensing capabilities of glucose oxidase-coated carbon fiber electrodes. **2012**, 258, 2219-2225		15
529	A flexible angle sensor made from MWNT/CuO/Cu2O nanocomposite films deposited by an electrophoretic co-deposition process. **2012**, 533, 62-66		7
528	Effects of carbon structure orientation on the performance of glucose sensors fabricated from electrospun carbon fibers. **2012**, 358, 544-549		11
527	Mixed Ni□Cu-oxide nanowire array on conductive substrate and its application as enzyme-free glucose sensor. **2012**, 4, 4003		39
526	Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing. **2012**, 12, 4860-9		69

525	Electrochemical analysis based on nanoporous structures. **2012**, 137, 3891-903		91
524	Nonenzymatic amperometric determination of glucose by CuO nanocubes-graphene nanocomposite modified electrode. **2012**, 88, 156-63		177
523	Hollow CuO nanospheres uniformly anchored on porous Si nanowires: preparation and their potential use as electrochemical sensors. **2012**, 4, 7525-31		50
522	Synthetic Architecture of Multiple Core–Shell and Yolk–Shell Structures of (Cu2)nCu2O (n = 1–4) with Centricity and Eccentricity. **2012**, 24, 1917-1929		78
521	Bimetallic nanowires as electrocatalysts for nonenzymatic real-time impedancimetric detection of glucose. **2012**, 48, 1686-8		58
520	One-pot green hydrothermal synthesis of CuO–Cu2O–Cu nanorod-decorated reduced graphene oxide composites and their application in photocurrent generation. **2012**, 2, 2227		48
519	Electrochemical sensors and biosensors. **2012**, 84, 685-707		622
518	A Simple Route of Modifying Copper Electrodes for the Determination of Methanol and Ethylene Glycol. *Electroanalysis*, **2012**, 24, 1639-1645	3	11
517	Copper oxide-modified glassy carbon electrode prepared through copper hexacyanoferrate–G5-PAMAM dendrimer templates as electrocatalyst for carbohydrate and alcohol oxidation. **2012**, 16, 1527-1535		6
516	Hydrothermal synthesis of CuO micro-/nanostructures and their applications in the oxidative degradation of methylene blue and non-enzymatic sensing of glucose/H2O2. **2012**, 370, 144-54		176
515	Electrospun three-dimensional porous CuO/TiO2 hierarchical nanocomposites electrode for nonenzymatic glucose biosensing. **2012**, 20, 75-78		51
514	Ultrasensitive and selective non-enzymatic glucose detection using copper nanowires. *Biosensors and Bioelectronics*, **2012**, 31, 426-32	11.8	241
513	Facile synthesis of nanospindle-like Cu2O/straight multi-walled carbon nanotube hybrid nanostructures and their application in enzyme-free glucose sensing. **2012**, 168, 1-7		75
512	Nonenzimatic amperometric glucose biosensors. **2012**, 2, 153-170		
511	A novel non-enzyme hydrogen peroxide sensor based on an electrode modified with carbon nanotube-wired CuO nanoflowers. *Mikrochimica Acta*, **2012**, 176, 137-142	5.8	46
510	A highly sensitive nonenzymatic glucose sensor based on CuO nanowires. *Mikrochimica Acta*, **2012**, 176, 411-417	5.8	81
509	Nanosized copper oxide induces apoptosis through oxidative stress in podocytes. **2013**, 87, 1067-73		48
508	Synthesis of novel CuO nanosheets and their non-enzymatic glucose sensing applications. **2013**, 13, 7926-38		87

507	Hierarchical CuO nanoflowers: water-required synthesis and their application in a nonenzymatic glucose biosensor. **2013**, 15, 10904-13		115
506	In situ attachment of cupric oxide nanoparticles to mesoporous carbons for sensitive amperometric non-enzymatic sensing of glucose. **2013**, 178, 125-131		22
505	Nonenzymatic glucose sensor based on three different CuO nanomaterials. **2013**, 5, 3050		49
504	The microstructure and electrochemical properties of boron-doped nanocrystalline diamond film electrodes and their application in non-enzymatic glucose detection. **2013**, 43, 911-917		11
503	Electrocatalytical properties presented by Cu/Ni alloy modified electrodes toward the oxidation of glucose. **2013**, 17, 1333-1338		25
502	Preparation of novel electrochemical glucose biosensors for whole blood based on antibiofouling polyurethane-heparin nanoparticles. **2013**, 97, 349-356		19
501	Easy Fabrication of a Sensitive Non-Enzymatic Glucose Sensor Based on Electrospinning CuO-ZnO Nanocomposites. **2013**, 147, 47-58		17
500	A facile strategy for the synthesis of hierarchical CuO nanourchins and their application as non-enzymatic glucose sensors. *RSC Advances*, **2013**, 3, 13712	3.7	33
499	Rapid synthesis of CuO nanoribbons and nanoflowers from the same reaction system, and a comparison of their supercapacitor performance. *RSC Advances*, **2013**, 3, 15719	3.7	55
498	Nonenzymatic sensor for glucose based on a glassy carbon electrode modified with Ni(OH)2 nanoparticles grown on a film of molybdenum sulfide. *Mikrochimica Acta*, **2013**, 180, 1127-1134	5.8	41
497	Amperometric nonenzymatic determination of glucose based on a glassy carbon electrode modified with nickel(II) oxides and graphene. *Mikrochimica Acta*, **2013**, 180, 477-483	5.8	72
496	Fabrication of CuO nanosheets modified Cu electrode and its excellent electrocatalytic performance towards glucose. **2013**, 283, 947-953		53
495	Wide linear-range detecting nonenzymatic glucose biosensor based on CuO nanoparticles inkjet-printed on electrodes. **2013**, 85, 10448-54		145
494	Optimization of site specific adsorption of oleylamine capped CuO nanoparticles on MWCNTs for electrochemical determination of guanosine. **2013**, 188, 603-612		35
493	Non-Enzymatic Glucose Sensor Based on Cu Electrode Modified with CuO Nanoflowers. *Journal of the Electrochemical Society*, **2013**, 160, B43-B46	3.9	31
492	Studies on the electrocatalytic oxidation of dopamine at phosphotungstic acid□nO spun fiber-modified electrode. **2013**, 185, 651-657		18
491	Nickel/cobalt alloys modified electrodes: Synthesis, characterization and optimization of the electrocatalytical response. **2013**, 186, 528-535		24
490	Dopant-stimulated CuO nanofibers for electro-oxidation and determination of glucose. **2013**, 29, 861-867		5

489	Collapsing nanoparticle-laden nanotubes. **2013**, 9, 8881		3
488	Copper@carbon coaxial nanowires synthesized by hydrothermal carbonization process from electroplating wastewater and their use as an enzyme-free glucose sensor. **2013**, 138, 559-68		37
487	Fabrication of Nanoflowers and other Exotic Patterns. **2013**, 201, 159-180		1
486	Electrocatalytic glucose oxidation at binary catalyst of nickel and manganese oxides nanoparticles modified glassy carbon electrode: Optimization of the loading level and order of deposition. **2013**, 92, 460-467		40
485	Electrochemical biosensors for glucose based on metal nanoparticles. **2013**, 42, 216-227		115
484	Archetypal sandwich-structured CuO for high performance non-enzymatic sensing of glucose. **2013**, 5, 2089-99		139
483	Enhanced glucose electrooxidation at a binary catalyst of manganese and nickel oxides modified glassy carbon electrode. **2013**, 223, 125-128		48
482	Nanomaterials for electrochemical non-enzymatic glucose biosensors. *RSC Advances*, **2013**, 3, 3487	3.7	261
481	A novel amperometric glucose sensor based on PtIr nanoparticles uniformly dispersed on carbon nanotubes. **2013**, 91, 353-360		30
480	Nonenzymatic biosensor based on Cu(x)O nanoparticles deposited on polypyrrole nanowires for improving detection range. *Biosensors and Bioelectronics*, **2013**, 42, 141-7	11.8	113
479	Non-enzymatic hydrogen peroxide photoelectrochemical sensor based on WO3 decorated core□shell TiC/C nanofibers electrode. **2013**, 108, 491-496		42
478	Enzyme-free glucose biosensor based on low density CNT forest grown directly on a Si/SiO2 substrate. **2013**, 178, 586-592		50
477	Rapid nonenzymatic monitoring of glucose and fructose using a CuO/multiwalled carbon nanotube nanocomposite-modified glassy carbon electrode. **2013**, 34, 1208-1215		28
476	Utilization of silane functionalized carbon nanotubes-silica hybrids as novel reinforcing fillers for solution styrene butadiene rubber. **2013**, 34, 690-696		29
475	Improvement of sensitive Ni(OH)2 nonenzymatic glucose sensor based on carbon nanotube/polyimide membrane. **2013**, 63, 367-375		72
474	A high-performance nonenzymatic glucose sensor made of CuO-SWCNT nanocomposites. *Biosensors and Bioelectronics*, **2013**, 42, 280-6	11.8	115
473	CuO nanoleaf electrode: facile preparation and nonenzymatic sensor applications. *Mikrochimica Acta*, **2013**, 180, 371-378	5.8	44
472	Non-enzymatic electrochemical sensing of glucose. *Mikrochimica Acta*, **2013**, 180, 161-186	5.8	352

471	A novel non-enzymatic glucose sensor based on NiO hollow spheres. **2013**, 102, 104-107		118
470	A non-enzymatic glucose sensor based on the composite of cubic Cu nanoparticles and arc-synthesized multi-walled carbon nanotubes. *Biosensors and Bioelectronics*, **2013**, 47, 86-91	11.8	76
469	High performance non-enzymatic glucose biosensor based on copper nanowires□carbon nanotubes hybrid for intracellular glucose study. **2013**, 182, 618-624		79
468	Graphene wrapped Cu2O nanocubes: non-enzymatic electrochemical sensors for the detection of glucose and hydrogen peroxide with enhanced stability. *Biosensors and Bioelectronics*, **2013**, 45, 206-12	11.8	597
467	Improved EIS performance of an electrochemical cytosensor using three-dimensional architecture Au@BSA as sensing layer. **2013**, 85, 5200-6		84
466	WO3 nanoparticles decorated core-shell TiC-C nanofiber arrays for high sensitive and non-enzymatic photoelectrochemical biosensing. **2013**, 49, 7091-3		18
465	Perovskite LaTiO□Ag0.2 nanomaterials for nonenzymatic glucose sensor with high performance. *Biosensors and Bioelectronics*, **2013**, 48, 56-60	11.8	39
464	A novel nonenzymatic hydrogen peroxide sensor based on Ag□MnO2□MWCNTs nanocomposites. **2013**, 90, 35-43		169
463	Facile water-assisted synthesis of cupric oxide nanourchins and their application as nonenzymatic glucose biosensor. **2013**, 5, 4429-37		99
462	Advances in point-of-care technologies with biosensors based on carbon nanotubes. **2013**, 45, 24-36		87
461	Amperometric glucose sensor based on nickel nanoparticles/carbon Vulcan XC-72R. *Biosensors and Bioelectronics*, **2013**, 47, 248-57	11.8	57
460	In situ growth cupric oxide nanoparticles on carbon nanofibers for sensitive nonenzymatic sensing of glucose. **2013**, 105, 433-438		35
459	Preparation of 1D CuO Nanorods by Means of a Metal Ion Containing Ionic Liquid and Their Supercapacitance. **2013**, 2013, 2315-2323		19
458	In situ synthesis of CuS nanotubes on Cu electrode for sensitive nonenzymatic glucose sensor. **2013**, 176, 952-959		102
457	Nanoporous platinum-cobalt alloy for electrochemical sensing for ethanol, hydrogen peroxide, and glucose. *Analytica Chimica Acta*, **2013**, 780, 20-7	6.6	62
456	Nanoporous PtNi alloy as an electrochemical sensor for ethanol and H2O2. **2013**, 182, 408-415		52
455	Microfluidic Glucose Sensors. **2013**, 47-67		
454	Copper oxide nanoparticles induced mitochondria mediated apoptosis in human hepatocarcinoma cells. **2013**, 8, e69534		216

453	. **2014**,		5
452	SINGLE WALLED-BORON NITRIDE NANOTUBES BASED NANORESONATOR FOR SENSING OF ACETONE MOLECULES. **2014**, 09, 1450086		0
451	A flexible, nonenzymatic glucose biosensor based on Ni-coordinated, vertically aligned carbon nanotube arrays. *RSC Advances*, **2014**, 4, 48310-48316	3.7	30
450	Mineralization and optical characterization of copper oxide nanoparticles using a high aspect ratio bio-template. **2014**, 116, 154308		1
449	A Novel Non-Enzymatic Glucose Sensor Based on Cobalt Nanoparticles Implantation-Modified Indium Tin Oxide Electrode. *Electroanalysis*, **2014**, 26, 2693-2700	3	40
448	Hierarchical Cu4V2.15O9.38 superstructures assembled by single-crystalline rods: their synthesis, characteristics and electrochemical properties. *RSC Advances*, **2014**,	3.7	1
447	Single walled boron nitride nanotube-based biosensor: an atomistic finite element modelling approach. **2014**, 8, 149-56		6
446	Nickel Hydroxide Nanoflowers for a Nonenzymatic Electrochemical Glucose Sensor. *Journal of the Electrochemical Society*, **2014**, 161, B216-B219	3.9	33
445	Boron nitride nanotube-based biosensor for acetone detection: molecular structural mechanics-based simulation. **2014**, 40, 1035-1042		14
444	Synthesis and biomedical applications of copper sulfide nanoparticles: from sensors to theranostics. **2014**, 10, 631-45		302
443	Novel ultrasensitive non-enzymatic glucose sensors based on controlled flower-like CuO hierarchical films. **2014**, 199, 175-182		105
442	Nickel oxide hollow microsphere for non-enzyme glucose detection. *Biosensors and Bioelectronics*, **2014**, 54, 251-7	11.8	182
441	A highly sensitive nonenzymatic glucose sensor based on nickel oxide□arbon nanotube hybrid nanobelts. **2014**, 18, 899-908		22
440	Non-enzymatic glucose biosensor based on copper oxide-reduced graphene oxide nanocomposites synthesized from water-isopropanol solution. **2014**, 130, 253-260		82
439	Fabrication of flexible conducting thin films of copper-MWCNT from multi-component aqueous suspension by electrodeposition. **2014**, 18, 487-496		3
438	Novel helical TiO2 nanotube arrays modified by Cu2O for enzyme-free glucose oxidation. *Biosensors and Bioelectronics*, **2014**, 59, 243-50	11.8	79
437	Electrochemical nanosensors for blood glucose analysis. **2014**, 28-53		0
436	A highly efficient organophosphorus pesticides sensor based on CuO nanowires□WCNTs hybrid nanocomposite. **2014**, 199, 410-417		86

435	A review of recent advances in nonenzymatic glucose sensors. **2014**, 41, 100-18		380
434	Novel Biomaterials for Human Health: Hemocompatible Polymeric Micro-and Nanoparticles and Their Application in Biosensor. **2014**, 181-202		1
433	CuO nanowires based sensitive and selective non-enzymatic glucose detection. **2014**, 191, 86-93		190
432	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. **2014**, 60, 208-337		852
431	Enzyme-free selective determination of H2O2 and glucose using functionalized CuNP-modified graphite electrode in room temperature ionic liquid medium. *RSC Advances*, **2014**, 4, 47497-47504	3.7	19
430	Electrolyte-controllable synthesis of CuxO with novel morphology and their application in glucose sensors. *RSC Advances*, **2014**, 4, 52067-52073	3.7	10
429	Electrochemical synthesis of mixed-valence manganese/copper hybrid composite using graphene oxide and multi-walled carbon nanotubes for nonenzymatic glucose sensor. *Journal of Electroanalytical Chemistry*, **2014**, 735, 36-42	4.1	17
428	Facile fabrication of CuO nanowire modified Cu electrode for non-enzymatic glucose detection with enhanced sensitivity. *RSC Advances*, **2014**, 4, 28842-28847	3.7	35
427	Metal organic framework-derived anthill-like Cu@carbon nanocomposites for nonenzymatic glucose sensor. **2014**, 6, 1550		60
426	One-dimensional copper oxide nanotube arrays: biosensors for glucose detection. *RSC Advances*, **2014**, 4, 1449-1455	3.7	52
425	High surface area mesoporous CuO: a high-performance electrocatalyst for non-enzymatic glucose biosensing. *RSC Advances*, **2014**, 4, 33327-33331	3.7	37
424	Non‐enzymatic amperometric sensing of hydrogen peroxide at a CuS modified electrode for the determination of urine H2O2. **2014**, 144, 282-287		38
423	Reticular-vein-like Cu@Cu2O/reduced graphene oxide nanocomposites for a non-enzymatic glucose sensor. *RSC Advances*, **2014**, 4, 20459	3.7	74
422	Single layer of nickel hydroxide nanoparticles covered on a porous Ni foam and its application for highly sensitive non-enzymatic glucose sensor. **2014**, 204, 159-166		87
421	A New Method of Preparing Copper Oxide from Dinitrourea Copper Salt. **2014**, 640, 2132-2138		2
420	Templating synthesis of hollow CuO polyhedron and its application for nonenzymatic glucose detection. **2014**, 2, 7306-7312		78
419	Cost-effective CuO nanotube electrodes for energy storage and non-enzymatic glucose detection. *RSC Advances*, **2014**, 4, 46814-46822	3.7	29
418	Copper coralloid granule/polyaniline/reduced graphene oxide nanocomposites for nonenzymatic glucose detection. **2014**, 6, 4643		41

417	One-pot hydrothermal synthesis of CuO with tunable morphologies on Ni foam as a hybrid electrode for sensing glucose. *RSC Advances*, **2014**, 4, 23319	3.7	23
416	The nanoporous PdCr alloy as a nonenzymatic electrochemical sensor for hydrogen peroxide and glucose. **2014**, 2, 5195-5201		20
415	Graphene spheres loaded urchin-like CuxO (x=1 or 2) for use as a high performance photocatalyst. **2014**, 40, 5055-5059		17
414	One-pot ionic liquid-assisted synthesis of highly dispersed PtPd nanoparticles/reduced graphene oxide composites for nonenzymatic glucose detection. *Biosensors and Bioelectronics*, **2014**, 56, 223-30	11.8	85
413	Novel Cu/CuO/ZnO hybrid hierarchical nanostructures for non-enzymatic glucose sensor application. *Journal of Electroanalytical Chemistry*, **2014**, 717-718, 90-95	4.1	68
412	3D graphene foams decorated by CuO nanoflowers for ultrasensitive ascorbic acid detection. *Biosensors and Bioelectronics*, **2014**, 59, 384-8	11.8	148
411	Anion sensing and interfering behaviors of electrolyte□insulator□emiconductor sensors with nitrogen plasma-treated samarium oxide. *Japanese Journal of Applied Physics*, **2015**, 54, 04DL04	1.4	2
410	Spherulitic copper-copper oxide nanostructure-based highly sensitive nonenzymatic glucose sensor. **2015**, 10 Spec Iss, 165-78		11
409	On the synthesis of nickel oxide nanoparticles by sol□gel technique and its electrocatalytic oxidation of glucose. **2015**, 293, 101-108		61
408	Nanorod-aggregated flower-like CuO grown on a carbon fiber fabric for a super high sensitive non-enzymatic glucose sensor. **2015**, 3, 5777-5785		54
407	Three-dimensional roselike □Ni(OH)□assembled from nanosheet building blocks for non-enzymatic glucose detection. *Analytica Chimica Acta*, **2015**, 880, 42-51	6.6	56
406	Novel one-pot hydrothermal fabrication of cuprous oxide-attapulgite/graphene for non-enzyme glucose sensing. **2015**, 7, 2747-2753		9
405	Composition-selective fabrication of ordered intermetallic Au-Cu nanowires and their application to nano-size electrochemical glucose detection. **2015**, 26, 245702		11
404	A non-enzymatic thermally reduced Cu nanoparticle based graphene-resorcinol benzaldehyde glucose sensor. **2015**, 19, 91-96		5
403	Electrochemical Sensor Based on Nanoparticles of Cobalt Oxides for Determination of Glucose. **2015**, 2, 4212-4216		11
402	Glycine-assisted synthesis of NiO hollow cage-like nanostructures for sensitive non-enzymatic glucose sensing. *RSC Advances*, **2015**, 5, 18773-18781	3.7	59
401	Electrocatalytic glucose oxidation via hybrid nanomaterial catalyst of multi-wall TiO2 nanotubes supported Ni(OH)2 nanoparticles: Optimization of the loading level. **2015**, 160, 263-270		13
400	Cu- and CuO-decorated graphene as a nanosensor for H2S detection at room temperature. **2015**, 636, 36-41		43

399	An outstandingly sensitive enzyme-free glucose sensor prepared by co-deposition of nano-sized cupric oxide and multi-walled carbon nanotubes on glassy carbon electrode. **2015**, 97, 81-91		18
398	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent pi□i functionalization of graphene produced via a novel, green synthesis method. **2015**, 210, 558-565		37
397	Determination of Dopamine in the Presence of Uric Acid and Folic Acid by Carbon Paste Electrode Modified with CuO Nanoparticles/Hemoglobin and Multi-Walled Carbon Nanotube. *Journal of the Electrochemical Society*, **2015**, 162, B69-B74	3.9	20
396	An Antibacterial Nonenzymatic Glucose Sensor Composed of Carbon Nanotubes Decorated with Silver Nanoparticles. *Electroanalysis*, **2015**, 27, 1138-1143	3	14
395	The ethylene glycol template assisted hydrothermal synthesis of Co3O4 nanowires; structural characterization and their application as glucose non-enzymatic sensor. **2015**, 194, 94-100		54
394	Preparation of reduced graphene oxide/Cu nanoparticle composites through electrophoretic deposition: application for nonenzymatic glucose sensing. *RSC Advances*, **2015**, 5, 15861-15869	3.7	89
393	A highly sensitive nonenzymatic glucose sensor based on CuO nanoparticles decorated carbon spheres. **2015**, 211, 385-391		102
392	CuO nanoparticles on sulfur-doped graphene for nonenzymatic glucose sensing. **2015**, 156, 244-251		100
391	ZnO-CuxO/polypyrrole nanocomposite modified electrode for simultaneous determination of ascorbic acid, dopamine, and uric acid. **2015**, 473, 53-62		91
390	Highly exposed copper oxide supported on three-dimensional porous reduced graphene oxide for non-enzymatic detection of glucose. **2015**, 176, 1272-1279		56
389	Needle-like polypyrrole□NiO composite for non-enzymatic detection of glucose. **2015**, 207, 35-41		44
388	Nickel nanoparticles modified conducting polymer composite of reduced graphene oxide doped poly(3,4-ethylenedioxythiophene) for enhanced nonenzymatic glucose sensing. **2015**, 221, 606-613		69
387	Spontaneous formation of CuO nanosheets on Cu foil for H2O2 detection. **2015**, 354, 85-89		22
386	CdS quantum dots modified CuO inverse opal electrodes for ultrasensitive electrochemical and photoelectrochemical biosensor. **2015**, 5, 10838		31
385	Rational design of binder-free noble metal/metal oxide arrays with nanocauliflower structure for wide linear range nonenzymatic glucose detection. **2015**, 5, 10617		36
384	A new sensing platform based on electrospun copper oxide/ionic liquid nanocomposite for selective determination of risperidone. *RSC Advances*, **2015**, 5, 40578-40587	3.7	9
383	Development of sensitive non-enzymatic glucose sensor using complex nanostructures of cobalt oxide. **2015**, 34, 373-381		44
382	Urchin-like Pd@CuO□Pd yolk□shell nanostructures: synthesis, characterization and electrocatalysis. **2015**, 3, 13653-13661		44

381	Sulfur-doped graphene-supported Ag nanoparticles for nonenzymatic hydrogen peroxide detection. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	16
380	Developing a nanostructure electrochemical sensor for simultaneous determination of cysteine and tryptophan. **2015**, 7, 3920-3928		10
379	Binder free and free-standing electrospun membrane architecture for sensitive and selective non-enzymatic glucose sensors. *RSC Advances*, **2015**, 5, 41457-41467	3.7	41
378	Nanosheets-assembled hierarchical microstructured Ni(OH)2 hollow spheres for highly sensitive enzyme-free glucose sensors. **2015**, 168, 148-156		58
377	A highly sensitive electrochemical DNA biosensor for rapid detection of CYFRA21-1, a marker of non-small cell lung cancer. **2015**, 7, 9466-9473		27
376	Light-Addressable Potentiometric Sensor with Nitrogen-Incorporated Ceramic Sm2O3 Membrane for Chloride Ions Detection. **2015**, 98, 443-447		15
375	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. **2015**, 176, 804-810		84
374	Cobalt Oxide Nanoflowers for Electrochemical Determination of Glucose. **2015**, 44, 3724-3732		29
373	Nanoflower-like CoS-decorated 3D porous carbon skeleton derived from rose for a high performance nonenzymatic glucose sensor. *RSC Advances*, **2015**, 5, 106661-106667	3.7	46
372	Improved D-glucose electro-oxidation at a binary catalyst of nickel and cobalt oxide modified glassy carbon electrode. **2015**, 51, 881-885		3
371	Electrocatalytic oxidation of carbohydrates and dopamine in alkaline and neutral medium using CuO nanoplatelets. *Journal of Electroanalytical Chemistry*, **2015**, 739, 1-9	4.1	16
370	Electrochemical investigation and stripping voltammetric determination of captopril at CuO nanoparticles/multi-wall carbon nanotube nanocomposite electrode in tablet and urine samples. **2015**, 7, 1026-1035		24
369	Ultrasensitive non-enzymatic glucose sensor based on three-dimensional network of ZnO-CuO hierarchical nanocomposites by electrospinning. **2014**, 4, 7382		117
368	A Non-Enzymatic Glucose Sensor based on Copper Oxide Nanowires-Single Wall Carbon Nanotubes. *Journal of the Electrochemical Society*, **2015**, 162, B47-B51	3.9	21
367	D-glucose, D-galactose, and D-lactose non-enzyme quantitative and qualitative analysis method based on Cu foam electrode. **2015**, 175, 485-93		24
366	Novel Fe@Fe-O@Ag nanocomposite for efficient non-enzymatic sensing of hydrogen peroxide. **2015**, 153, 62-67		15
365	Nonenzymatic sensing of glucose using a carbon ceramic electrode modified with a composite film made from copper oxide, overoxidized polypyrrole and multi-walled carbon nanotubes. *Mikrochimica Acta*, **2015**, 182, 157-165	5.8	22
364	Graphene oxide doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for high performance nonenzymatic sensing of glucose. **2015**, 3, 556-561		53

363	Managing diabetes with nanomedicine: challenges and opportunities. **2015**, 14, 45-57		359
362	Facile preparation of a highly sensitive nonenzymatic glucose sensor based on multi-walled carbon nanotubes decorated with electrodeposited metals. *RSC Advances*, **2015**, 5, 2806-2812	3.7	7
361	Synthesis and characterization of nickel oxide hollow spheres□reduced graphene oxide□nafion composite and its biosensing for glucose. **2015**, 208, 90-98		55
360	A highly sensitive non-enzymatic glucose sensor based on bimetallic Cu-Ag superstructures. *Biosensors and Bioelectronics*, **2015**, 63, 339-346	11.8	146
359	A comparison on the performance of zinc oxide and hematite nanoparticles for highly selective and sensitive detection of para-nitrophenol. **2015**, 45, 253-261		25
358	Boron Nitride Nanotube-Based Mass Sensing of Zeptogram Scale. **2015**, 48, 17-21		5
357	[Mobile health: new perspectives for healthcare provision]. **2016**, 25, 159-170		2
356	Boron nitride nanotubes as bionanosensors. **2016**, 149-164		2
355	Carbon Nanotube Paper-Based Electroanalytical Devices. **2016**, 7,		12
354	A Robust, Enzyme-Free Glucose Sensor Based on Lysine-Assisted CuO Nanostructures. **2016**, 16,		20
353	Nanostructured Conducting Polymer/Copper Oxide as a Modifier for Fabrication of L-DOPA and Uric Acid Electrochemical Sensor. *Electroanalysis*, **2016**, 28, 2075-2080	3	24
352	Fast Synthesis of Hierarchical Co(OH)2 Nanosheet Hollow Spheres with Enhanced Glucose Sensing. **2016**, 2016, 3163-3168		22
351	Mass and rotary inertia sensing from vibrating cantilever nanobeams. **2016**,		1
350	MORPHOLOGY EFFECT OF Ni□Ag/CARBON NANOMATERIALS ON THEIR ELECTROCATALYTIC ACTIVITY FOR GLUCOSE OXIDATION. **2016**, 23, 1650059		4
349	Carnation-like CuO Hierarchical Nanostructures Assembled by Porous Nanosheets for Nonenzymatic Glucose Sensing. *Electroanalysis*, **2016**, 28, 2214-2221	3	18
348	Non-enzymatic glucose sensor based on electrodeposited copper on carbon paste electrode (Cu/CPE). **2016**,		2
347	. **2016**,		1
346	In situ synthesis of Ni(OH)2/TiO2 composite film on NiTi alloy for non-enzymatic glucose sensing. **2016**, 232, 150-157		65

345	CuO nanoparticles/nitrogen-doped carbon nanofibers modified glassy carbon electrodes for non-enzymatic glucose sensors with improved sensitivity. **2016**, 42, 11285-11293		53
344	A ternary nanooxide NiO-TiO2-ZrO2/SO42− as efficient solid superacid catalysts for electro-oxidation of glucose. **2016**, 194, 367-376		13
343	Advances in non-enzymatic glucose sensors based on metal oxides. **2016**, 4, 7333-7349		252
342	High-performance sensor based on copper oxide nanoparticles for dual detection of phenolic compounds and a pesticide. **2016**, 71, 33-37		27
341	Modern Approach to the Synthesis of Ni(OH)2 Decorated Sulfur Doped Carbon Nanoparticles for the Nonenzymatic Glucose Sensor. **2016**, 8, 22545-53		86
340	Bimetal-organic-frameworks-derived yolk-shell-structured porous CoP/ZnO@PC/CNTs hybrids for highly sensitive non-enzymatic detection of superoxide anion released from living cells. **2016**, 52, 12442-12445		20
339	Non-enzymatic glucose sensor based on facial hydrothermal synthesized NiO nanosheets loaded on glassy carbon electrode. **2016**, 509, 252-258		20
338	Investigation of electrocatalytic and analytical ability of Pt nanoparticles supported on active carbon modified electrode to analytical determination of glucose. **2016**, 52, 233-238		
337	Electrical Chips for Biological Point-of-Care Detection. **2016**, 18, 329-55		15
336	Nonenzymatic amperometric glucose sensor based on a composite prepared from CuO, reduced graphene oxide, and carbon nanotube. *Mikrochimica Acta*, **2016**, 183, 3285-3292	5.8	19
335	Optical and surface band bending mediated fluorescence sensing properties of MoS2 quantum dots. *RSC Advances*, **2016**, 6, 101770-101777	3.7	17
334	Facile synthesis of Ni(OH)2 nanoplates on nitrogen-doped carbon foam for nonenzymatic glucose sensors. **2016**, 8, 8227-8233		10
333	Novel alkaline-reduced cuprous oxide/graphene nanocomposites for non-enzymatic amperometric glucose sensor application. **2016**, 68, 465-473		37
332	Ultrasensitive non-enzymatic glucose sensors based on different copper oxide nanostructures by in-situ growth. **2016**, 236, 326-333		75
331	Enhanced Non-enzymatic amperometric sensing of glucose using Co(OH)2 nanorods deposited on a three dimensional graphene network as an electrode material. *Mikrochimica Acta*, **2016**, 183, 2473-2479	5.8	26
330	Phosphomolybdic acid functionalized graphene loading copper nanoparticles modified electrodes for non-enzymatic electrochemical sensing of glucose. *Analytica Chimica Acta*, **2016**, 934, 44-51	6.6	29
329	NiMoO4 nanofibres designed by electrospining technique for glucose electrocatalytic oxidation. *Analytica Chimica Acta*, **2016**, 905, 72-8	6.6	59
328	Ordered self-assembly of screen-printed flower-like CuO and CuO/MWCNTs modified graphite electrodes and applications in non-enzymatic glucose sensor. *Journal of Electroanalytical Chemistry*, **2016**, 763, 37-44	4.1	26

327	Fabrication and characterization of non-enzymatic glucose sensor based on ternary NiO/CuO/polyaniline nanocomposite. **2016**, 498, 37-46		129
326	Flower-like Copper Cobaltite Nanosheets on Graphite Paper as High-Performance Supercapacitor Electrodes and Enzymeless Glucose Sensors. **2016**, 8, 3258-67		258
325	Copper Hydroxide Nanorods Decorated Porous Graphene Foam Electrodes for Non-enzymatic Glucose Sensing. **2016**, 191, 954-961		59
324	Comparative study of CuO crystals on the cellulose substrate by the microwave-assisted hydrothermal method and hydrothermal method. **2016**, 90, 129-136		18
323	Glucose sensing and low-threshold field emission from MnCo2O4 nanosheets. *RSC Advances*, **2016**, 6, 29734-29740	3.7	23
322	Facile Synthesis of Pt-CuO Nanocomposite Films for Non-Enzymatic Glucose Sensor Application. *Journal of the Electrochemical Society*, **2016**, 163, B180-B184	3.9	11
321	Non-enzymatic amperometric sensing of glucose by employing sucrose templated microspheres of copper oxide (CuO). *Dalton Transactions*, **2016**, 45, 5833-40	4.3	46
320	Phase transformation-controlled synthesis of CuO nanostructures and their application as an improved material in a carbon-based modified electrode. *RSC Advances*, **2016**, 6, 12829-12836	3.7	10
319	Non-enzymatic glucose biosensor based on hyperbranched pine-like gold nanostructure. **2016**, 63, 150-4		26
318	Electrochemical analysis of ascorbic acid, dopamine, and uric acid on nobel metal modified nitrogen-doped carbon nanotubes. **2016**, 231, 218-229		57
317	Encapsulating Cu nanoparticles into metal-organic frameworks for nonenzymatic glucose sensing. **2016**, 227, 583-590		117
316	An ultrasensitive electrochemical DNA biosensor based on a copper oxide nanowires/single-walled carbon nanotubes nanocomposite. **2016**, 364, 703-709		31
315	Microwave synthesis of 3D rambutan-like CuO and CuO/reduced graphene oxide modified electrodes for non-enzymatic glucose detection. **2016**, 4, 1247-1253		52
314	Electrochemical sensor for amino acids and glucose based on glassy carbon electrodes modified with multi-walled carbon nanotubes and copper microparticles dispersed in polyethylenimine. *Journal of Electroanalytical Chemistry*, **2016**, 765, 16-21	4.1	25
313	Analysis of cobalt phosphide (CoP) nanorods designed for non-enzyme glucose detection. **2016**, 141, 256-60		65
312	Supportless electrochemical sensor based on molecularly imprinted polymer modified nanoporous microrod for determination of dopamine at trace level. *Biosensors and Bioelectronics*, **2016**, 78, 308-314	11.8	92
311	A highly sensitive enzyme-free glucose sensor based on Co 3 O 4 nanoflowers and 3D graphene oxide hydrogel fabricated via hydrothermal synthesis. **2016**, 223, 76-82		128
310	High-performance non-enzymatic perovskite sensor for hydrogen peroxide and glucose electrochemical detection. **2017**, 244, 482-491		60

309	CuO nanoparticles decorated nano-dendrite-structured CuBi 2 O 4 for highly sensitive and selective electrochemical detection of glucose. **2017**, 229, 129-140		21
308	Copper-modified titanium phosphate nanoparticles as electrocatalyst for glucose detection. **2017**, 229, 102-111		30
307	Fast Synthesis of PbS Nanoparticles for Fabrication of Glucose Sensor with Enhanced Sensitivity. **2017**, 46, 3674-3680		3
306	Chitosan Microgels Embedded with Catalase Nanozyme-Loaded Mesocellular Silica Foam for Glucose-Responsive Drug Delivery. *ACS Biomaterials Science and Engineering*, **2017**, 3, 572-578	5.5	45
305	Analysis of kojic acid in food samples uses an amplified electrochemical sensor employing V 2 O 5 nanoparticle and room temperature ionic liquid. **2017**, 231, 597-601		11
304	A Miniaturized Electrochemical System Based on Nickel Oxide Species for Glucose Sensing Applications. **2017**, 7, 58-63		4
303	Single-use nonenzymatic glucose biosensor based on CuO nanoparticles ink printed on thin film gold electrode by micro-plotter technology. *Journal of Electroanalytical Chemistry*, **2017**, 789, 50-57	4.1	35
302	In-situ grown flower-like nanostructured CuO on screen printed carbon electrodes for non-enzymatic amperometric sensing of glucose. *Mikrochimica Acta*, **2017**, 184, 2375-2385	5.8	38
301	Multi-dimensional Ag/NiO/reduced graphene oxide nanostructures for a highly sensitive non-enzymatic glucose sensor. **2017**, 712, 742-751		48
300	Preparation of Ni(OH)2 nanoplatelet/electrospun carbon nanofiber hybrids for highly sensitive nonenzymatic glucose sensors. *RSC Advances*, **2017**, 7, 19345-19352	3.7	20
299	Analysis of Levodopa in the Presence of Vitamin B6 Using Carbon Paste Electrode Modified with 1-Butyl-3 methylimidazolium Hexafluorophosphate and CuO Nanoparticles. *Electroanalysis*, **2017**, 29, 1854-1859	3	19
298	Flexible electronics-compatible non-enzymatic glucose sensing via transparent CuO nanowire networks on PET films. **2017**, 28, 245502		19
297	Surfactant free template assisted electrodeposited n-type nano-cubic Cu2O thin films for nonenzymatic glucose sensing. **2017**, 214, 1700135		5
296	One-step synthesis of porous copper oxide for electrochemical sensing of acetylsalicylic acid in the real sample. **2017**, 501, 350-356		9
295	An Electrochemical Platform Based on MWCNT-Pt Nanocrystals@CuO Hybrid Nanomaterials for Determination of Glucose. *Journal of the Electrochemical Society*, **2017**, 164, B366-B371	3.9	2
294	Nonenzymatic glucose sensor based on icosahedron AuPd@CuO core shell nanoparticles and MWCNT. **2017**, 251, 1096-1103		35
293	Bimetallic Pt-Au nanocatalysts electrochemically deposited on boron-doped diamond electrodes for nonenzymatic glucose detection. *Biosensors and Bioelectronics*, **2017**, 98, 76-82	11.8	105
292	Nonenzymatic glucose sensor based on Ag&Pt hollow nanoparticles supported on TiO nanotubes. **2017**, 80, 174-179		26

291	Probing the shape-specific electrochemical properties of cobalt oxide nanostructures for their application as selective and sensitive non-enzymatic glucose sensors. **2017**, 5, 6497-6505		32
290	Recent developments in electrochemical sensors based on nanomaterials for determining glucose and its byproduct H2O2. **2017**, 52, 10455-10469		34
289	Novel fluorescent organic nanoparticles as a label-free biosensor for dopamine in serum. **2017**, 5, 2750-2756		21
288	NiO hedgehog-like nanostructures/Au/polyaniline nanofibers/reduced graphene oxide nanocomposite with electrocatalytic activity for non-enzymatic detection of glucose. **2017**, 518, 143-153		34
287	CuO nanoparticles supported on nitrogen and sulfur co-doped graphene nanocomposites for non-enzymatic glucose sensing. *Journal of Nanoparticle Research*, **2017**, 19, 1	2.3	13
286	Fabrication of Novel CuO Films with Nanoparticles-Aggregated Sphere-Like Clusters on ITO and Their Nonenzymatic Glucose Sensing Applications. **2017**, 12, 1750015		1
285	Selective sensing of ethylene and glucose using carbon-nanotube-based sensors: an ab initio investigation. **2017**, 9, 1687-1698		23
284	Non-enzymatic glucose sensing properties of MoO3 nanorods: experimental and density functional theory investigations. **2017**, 50, 475401		12
283	A non-enzymatic glucose sensor based on CuO-nanostructure modified carbon ceramic electrode. **2017**, 248, 425-431		22
282	ZIF-67 derived cobalt-based nanomaterials for electrocatalysis and nonenzymatic detection of glucose: Difference between the calcination atmosphere of nitrogen and air. *Journal of Electroanalytical Chemistry*, **2017**, 799, 512-518	4.1	24
281	An electrochemical sensing platform for trace recognition and detection of an anti-prostate cancer drug flutamide in biological samples. *RSC Advances*, **2017**, 7, 37898-37907	3.7	43
280	The synthesis of dandelion-like CuO nanoflowers and photocatalytic degradation of RhB. **2017**, 295, 1797-1803		4
279	Two-dimensional metal chalcogenides analogous NiSe nanosheets and its efficient electrocatalytic performance towards glucose sensing. **2017**, 507, 378-385		45
278	A novel nonenzymatic glucose sensor based on functionalized PDDA-graphene/CuO nanocomposites. **2017**, 253, 1087-1095		63
277	Significantly Improved Electrocatalytic Activity of Copper-Based Structures that Evolve from a Metal-Organic Framework Induced by Cathodization Treatment. *ChemElectroChem*, **2017**, 4, 246-251	4.3	3
276	Band bending effect induced non-enzymatic highly sensitive glucose sensing in ZnO nanoparticles. **2017**, 183, 1-6		8
275	A novel bismuth oxychloride-graphene hybrid nanosheets based non-enzymatic photoelectrochemical glucose sensing platform for high performances. *Biosensors and Bioelectronics*, **2017**, 89, 352-360	11.8	61
274	CNT Applications in Drug and Biomolecule Delivery. **2018**, 61-64		9

273	Synthesis and Chemical Modification of Graphene. **2018**, 107-119		
272	Graphene Applications in Sensors. **2018**, 125-132		
271	Graphene Applications in Batteries and Energy Devices. **2018**, 133-139		2
270	Medical and Pharmaceutical Applications of Graphene. **2018**, 149-150		1
269	Graphene Applications in Specialized Materials. **2018**, 151-154		
268	Miscellaneous Applications of Graphene. **2018**, 155-155		
267	Basic Electrochromics of CPs. **2018**, 251-282		
266	Batteries and Energy Devices. **2018**, 575-600		
265	Brief, General Overview of Applications. **2018**, 43-44		
264	CNT Applications in Batteries and Energy Devices. **2018**, 49-52		1
263	Copper oxide and carbon nano-fragments modified glassy carbon electrode as selective electrochemical sensor for simultaneous determination of catechol and hydroquinone in real-life water samples. *Journal of Electroanalytical Chemistry*, **2018**, 815, 68-75	4.1	48
262	Dual functional rhodium oxide nanocorals enabled sensor for both non-enzymatic glucose and solid-state pH sensing. *Biosensors and Bioelectronics*, **2018**, 112, 136-142	11.8	23
261	A sensitive electrochemical sensor for ofloxacin based on a graphene/zinc oxide composite film. **2018**, 10, 1961-1967		20
260	Facilely electrodeposited coral-like copper micro-/nano-structure arrays with excellent performance in glucose sensing. **2018**, 266, 853-860		39
259	Non-enzymatic sensing of glucose using screen-printed electrode modified with novel synthesized CeO@CuO core shell nanostructure. *Biosensors and Bioelectronics*, **2018**, 111, 166-173	11.8	61
258	Advanced promising routes of carbon/metal oxides hybrids in sensors: A review. **2018**, 266, 139-150		35
257	Printed flexible electrochemical pH sensors based on CuO nanorods. **2018**, 263, 50-58		75
256	Target-responsive DNA hydrogel for non-enzymatic and visual detection of glucose. **2018**, 143, 1679-1684		40

255	Graphene and its sensor-based applications: A review. **2018**, 270, 177-194		308
254	Copper-based Metal-organic Framework for Non-enzymatic Electrochemical Detection of Glucose. *Electroanalysis*, **2018**, 30, 474-478	3	49
253	Porous HKUST-1 derived CuO/Cu2O shell wrapped Cu(OH)2 derived CuO/Cu2O core nanowire arrays for electrochemical nonenzymatic glucose sensors with ultrahigh sensitivity. **2018**, 439, 11-17		47
252	Cu2+-doped Carbon Nitride/MWCNT as an Electrochemical Glucose Sensor. *Electroanalysis*, **2018**, 30, 1446-1454	3	18
251	Carbon-based Nanomaterials Enhanced Selectivity and Sensitivity Toward PTS. **2018**, 125-194		
250	Metal Oxide and Its Composite Nanomaterials for Electrochemical Monitoring of PTS: Design, Preparation, and Application. **2018**, 305-400		
249	Design and fabrication of Ag-CuO nanoparticles on reduced graphene oxide for nonenzymatic detection of glucose. **2018**, 265, 435-442		60
248	Voltammetric chiral discrimination of tryptophan using a multilayer nanocomposite with implemented amino-modified ╫cyclodextrin as recognition element. *Mikrochimica Acta*, **2018**, 185, 230	5.8	25
247	Fully nozzle-jet printed non-enzymatic electrode for biosensing application. **2018**, 512, 480-488		29
246	Recent advances and future prospects in molecularly imprinted polymers-based electrochemical biosensors. *Biosensors and Bioelectronics*, **2018**, 100, 56-70	11.8	241
245	In situ fabrication of cobalt nanoflowers on sulfonated and fluorinated poly (arylene ether ketone-benzimidazole) template film for the electrocatalytic oxidation of glucose. *Talanta*, **2018**, 178, 481-490	6.2	10
244	Highly sensitive and selective non-enzymatic monosaccharide and disaccharide sugar sensing based on carbon paste electrodes modified with perforated NiO nanosheets. *New Journal of Chemistry*, **2018**, 42, 964-973	3.6	19
243	Electrochemical nonenzymatic sensing of glucose using advanced nanomaterials. *Mikrochimica Acta* , **2017**, 185, 49	5.8	114
242	Flexible robust binder-free carbon nanotube membranes for solid state and microcapacitor application. **2018**, 29, 035605		3
241	Low-cost and facile synthesis of Ni(OH)/ZnO nanostructures for high-sensitivity glucose detection. **2018**, 29, 015502		5
240	A novel electrochemical sensor based on Cu@Ni/MWCNTs nanocomposite for simultaneous determination of guanine and adenine. *Biosensors and Bioelectronics*, **2018**, 102, 389-395	11.8	63
239	Ultrafast responsive and highly sensitive enzyme-free glucose sensor based on a novel Ni(OH)2@PEDOT-rGO nanocomposite. **2018**, 254, 1206-1215		49
238	Highly sensitive and selective electrochemical sensor based on porous Co3O4 nanoflowers for voltammetric determination of glucose. **2018**, 392, 052028		

237	A NiFe Alloy Reduced on Graphene Oxide for Electrochemical Nonenzymatic Glucose Sensing. **2018**, 18,		10
236	Application of Hierarchical CuO Bowl-like Array Film to Amperometric Detection of l-Ascorbic Acid. **2018**, 34, 1225-1230		1
235	Interfacial Effect of Oxygen-Doped Nanodiamond on CuO and Micropyramidal Silicon Heterostructures for Efficient Nonenzymatic Glucose Sensor.. **2018**, 1, 1579-1586		16
234	Modified Electrodes for Selective Voltammetric Detection of Biomolecules. *Electroanalysis*, **2018**, 30, 2551-2574	3	13
233	NiVS nanoparticles in-situ synthesised on Ti mesh for electrocatalytic oxidation of glucose. **2018**, 13, 1373-1377		1
232	In Situ Formation of a 3D Amorphous Cobalt- Borate Nanoarray: An Efficient Non-Noble Metal Catalytic Electrode for Non-Enzyme Glucose Detection. **2018**, 3, 10580-10584		3
231	Nitrogen-Doped Graphic Carbon Protected Cu/Co/CoO Nanoparticles for Ultrasensitive and Stable Non-Enzymatic Determination of Glucose and Fructose in Wine. *Journal of the Electrochemical Society*, **2018**, 165, B543-B550	3.9	8
230	Non-enzymatic glucose sensor based on copper oxide and multi-wall carbon nanotubes using PEDOT:PSS matrix. **2018**, 245, 160-166		27
229	Recent advances in electrochemical non-enzymatic glucose sensors - A review. *Analytica Chimica Acta*, **2018**, 1033, 1-34	6.6	367
228	2D metal oxide nanoflakes for sensing applications: Review and perspective. **2018**, 272, 369-392		82
227	Metal oxide nanoparticles in electrochemical sensing and biosensing: a review. *Mikrochimica Acta*, **2018**, 185, 358	5.8	196
226	Synthesis of CuZrO3 nanocomposites/graphene and their application in modified electrodes for the co-detection of trace Pb(II) and Cd(II). **2018**, 273, 1146-1155		29
225	High-temperature annealing enabled iridium oxide nanofibers for both non-enzymatic glucose and solid-state pH sensing. **2018**, 281, 117-126		25
224	Tyramine Functionalized Graphene: Metal-Free Electrochemical Non-Enzymatic Biosensing of Hydrogen Peroxide. *ChemElectroChem*, **2018**, 5, 3191-3197	4.3	18
223	A novel impedimetric glucose biosensor based on immobilized glucose oxidase on a CuO-Chitosan nanobiocomposite modified FTO electrode. **2018**, 118, 649-660		36
222	A Non-Enzymatic Glucose Sensor Based on the Hybrid Thin Films of Cu on Acetanilide/ITO. *Journal of the Electrochemical Society*, **2019**, 166, B1116-B1125	3.9	17
221	In situ formation of metal-organic framework derived CuO polyhedrons on carbon cloth for highly sensitive non-enzymatic glucose sensing. **2019**, 7, 4990-4996		23
220	A simple route for electrochemical glucose sensing using background current subtraction of cyclic voltammetry technique. *Journal of Electroanalytical Chemistry*, **2019**, 848, 113323	4.1	4

219	Sonochemical synthesis of iron-graphene oxide/honeycomb-like ZnO ternary nanohybrids for sensitive electrochemical detection of antipsychotic drug chlorpromazine. **2019**, 59, 104696		22
218	Flower-like Ni(II)-based Metal-organic Framework-decorated Ag Nanoparticles: Fabrication, Characterization and Electrochemical Detection of Glucose. *Electroanalysis*, **2019**, 31, 2179-2186	3	13
217	Ionic liquid assisted synthesis of chromium oxide (Cr2O3) nanoparticles and their application in glucose sensing. **2019**, 30, 13984-13993		7
216	Hierarchical Co3O4/CuO nanorod array supported on carbon cloth for highly sensitive non-enzymatic glucose biosensing. **2019**, 298, 126860		65
215	Nitrogen-doped 3D hierarchical ordered mesoporous carbon supported palladium electrocatalyst for the simultaneous detection of ascorbic acid, dopamine, and glucose. **2019**, 25, 6061-6070		14
214	Nanoscale Ni(OH)x Films on Carbon Cloth Prepared by Atomic Layer Deposition and Electrochemical Activation for Glucose Sensing. *ACS Applied Nano Materials*, **2019**, 2, 4427-4434	5.6	22
213	One-step rapid preparation of CuO nanosheets by high frequency induction heating and the application as excellent electrochemical sensor based on CuO/MWCNTs for the detection of glucose. *Materials Research Express*, **2019**, 6, 1050b3	1.7	6
212	Carbon nanoparticles synthesized by laser ablation of coconut shell charcoal in liquids for glucose sensing applications. *Materials Research Express*, **2019**, 6, 115610	1.7	5
211	Facile Fabrication of Metal Oxide Based Catalytic Electrodes by AC Plasma Deposition and Electrochemical Detection of Hydrogen Peroxide. **2019**, 9, 888		9
210	A Sensitive and Selective Non-Enzymatic Glucose Sensor based on AuNPs/CuO NWs-MoS2 Modified Electrode. *Journal of the Electrochemical Society*, **2019**, 166, B1179-B1185	3.9	18
209	Rapid Microwave-Assisted Synthesis of Copper Decorated Carbon Black Nanocomposite for Non-Enzyme Glucose Sensing in Human Blood. *Journal of the Electrochemical Society*, **2019**, 166, B1238-B1244	3.9	11
208	Exfoliated nanosheets of Co3O4 webbed with polyaniline nanofibers: A novel composite electrode material for enzymeless glucose sensing application. **2019**, 73, 106-117		24
207	Simple Sonochemical Synthesis of Cupric Oxide Sphere Decorated Reduced Graphene Oxide Composite for the Electrochemical Detection of Flutamide Drug in Biological Samples. *Journal of the Electrochemical Society*, **2019**, 166, B68-B75	3.9	17
206	Electrospun Nanofibers for Sensors. **2019**, 571-601		15
205	Synthesis and characterization of hetero-metal oxide nano-hybrid composite on pectin scaffold. **2019**, 491, 195-205		6
204	Biodistribution and toxickinetic variances of chemical and green Copper oxide nanoparticles in vitro and in vivo. **2019**, 55, 154-169		13
203	Rational Construction of 3D-Networked Carbon Nanowalls/Diamond Supporting CuO Architecture for High-Performance Electrochemical Biosensors. **2019**, 15, e1901527		19
202	In situ synthesis of CuO nanoparticles decorated hierarchical Ce-metal-organic framework nanocomposite for an ultrasensitive non-enzymatic glucose sensor. **2019**, 25, 4447-4457		15

201	Electrospun CuO-ZnO nanohybrid: Tuning the nanostructure for improved amperometric detection of hydrogen peroxide as a non-enzymatic sensor. **2019**, 550, 180-189		32
200	High performance of electrocatalytic oxidation in direct glucose fuel cell using molybdate nanostructures synthesized by microwave-assisted method. **2019**, 178, 50-56		13
199	Cu NPs@NiF electrode preparation by rapid one-step electrodeposition and its sensing performance for glucose. **2019**, 292, 203-209		24
198	Biosynthesis of Ag@CuO core□hell nanostructures for non-enzymatic glucose sensing using screen-printed electrode. **2019**, 30, 9725-9734		10
197	A voltammetric carbon paste sensor modified with NiO nanoparticle and ionic liquid for fast analysis of p-nitrophenol in water samples. **2019**, 285, 430-435		24
196	CNT flexible membranes for energy storage and conversion systems. **2019**, 9, 670-674		2
195	Cuprous Oxide Films with Hollow Cubic Cage Structure for Nonenzymatic Glucose Detection. **2019**, 14, 1950045		1
194	Advanced biosensors for glucose and insulin. *Biosensors and Bioelectronics*, **2019**, 141, 111201	11.8	79
193	Literature Review. **2019**, 17-81		
192	Electrochemical Deposition of Nanomaterials for Electrochemical Sensing. **2019**, 19,		52
191	Printed Flexible Sensors. **2019**,		1
190	Facile Non-enzymatic Lactic Acid Sensor Based on Cobalt Oxide Nanostructures. *Electroanalysis*, **2019**, 31, 1296-1303	3	17
189	How to fit a response current-concentration curve? A semi-empirical investigation of non-enzymatic glucose sensor based on PANI-modified nickel foam. *Journal of Electroanalytical Chemistry*, **2019**, 840, 384-390	4.1	7
188	Glassy carbon electrode modified by new Copper(I) oxide nanocomposite for glucose detection: An electroanalysis study. **2019**, 33, e4834		5
187	3D porous structured polyaniline/reduced graphene oxide/copper oxide decorated electrode for high performance nonenzymatic glucose detection. *Journal of Electroanalytical Chemistry*, **2019**, 841, 1-9	4.1	11
186	A facile design of nucleocapsid-like Au@NiO@CuO nanocomposites with MWCNT for glucose sensing. *Journal of Electroanalytical Chemistry*, **2019**, 841, 36-44	4.1	11
185	An Ultra-Low Detection Limit Glucose Sensor Based on Reduced Graphene Oxide-Concave Tetrahedral Pd NCs@CuO Composite. *Journal of the Electrochemical Society*, **2019**, 166, B381-B387	3.9	7
184	A Smart Dental Floss for Biosensing of Glucose. *Electroanalysis*, **2019**, 31, 791-796	3	5

183	Role of conducting polymer and metal oxide-based hybrids for applications in ampereometric sensors and biosensors. *Microchemical Journal*, **2019**, 147, 7-24	4.8	181
182	Highly monodisperse Pd-Ni nanoparticles supported on rGO as a rapid, sensitive, reusable and selective enzyme-free glucose sensor. **2019**, 9, 19228		23
181	An electrochemical sensor with a copper oxide/gold nanoparticle-modified electrode for the simultaneous detection of the potential diabetic biomarkers methylglyoxal and its detoxification enzyme glyoxalase. *New Journal of Chemistry*, **2019**, 43, 16572-16582	3.6	9
180	Non-enzymatic and non-invasive glucose detection using Au nanoparticle decorated CuO nanorods. **2019**, 283, 776-785		56
179	Structural, optical, and electronic properties of metal oxide nanostructures. **2019**, 59-102		4
178	Electrocatalytic oxidation of glucose on bronze for monitoring of saliva glucose using a smart toothbrush. **2019**, 285, 56-61		31
177	Ultra-highly sensitive and selective H2S gas sensor based on CuO with sub-ppb detection limit. **2019**, 44, 3985-3992		83
176	Polypyrrole-CuO based composites, promotional effects of CuO contents on polypyrrole characteristics. **2019**, 30, 3882-3888		8
175	Nitrogen-doped Hollow Co3O4 Nanofibers for both Solid-state pH Sensing and Improved Non-enzymatic Glucose Sensing. *Electroanalysis*, **2019**, 31, 678-687	3	10
174	Sandwich nanoporous framework decorated with vertical CuO nanowire arrays for electrochemical glucose sensing. **2019**, 299, 470-478		35
173	Electrocatalytic Oxidation of 4-Aminophenol Molecules at the Surface of an FeS /Carbon Nanotube Modified Glassy Carbon Electrode in Aqueous Medium. **2019**, 84, 175-182		34
172	Nanobiosensors for Biomedical Application. **2019**, 1-23		3
171	Co-synthesis of CuO-ZnO nanoflowers by low voltage liquid plasma discharge with brass electrode. **2019**, 773, 762-769		13
170	Generalized Modeling Framework of Metal Oxide-Based Non-Enzymatic Glucose Sensors: Concepts, Methods, and Challenges. **2020**, 67, 679-687		3
169	A DFT study of dissolved gas (C2H2, H2, CH4) detection in oil on CuO-modified BNNT. **2020**, 500, 144030		70
168	Dynamic Photo-cross-linking of Native Silk Enables Macroscale Patterning at a Microscale Resolution. *ACS Biomaterials Science and Engineering*, **2020**, 6, 705-714	5.5	3
167	Glucose Electro-oxidation on Graphite Electrode Modified with Nickel/Chromium Nanoparticles. *Electroanalysis*, **2020**, 32, 281-290	3	1
166	Preparation of Asparagus-Shaped CuO Nanostructures and Their Electrocatalytic Activity for Glucose Oxidation. *Journal of Inorganic and Organometallic Polymers and Materials*, **2020**, 30, 1744-1751	3.2	

165	Novel Sensing Assembly Comprising Engineered Gold Dendrites and MWCNT-AuNPs Nanohybrid for Acetaminophen Detection in Human Urine. *Electroanalysis*, **2020**, 32, 561-570	3	19
164	Fabrication of a sensitive and fast response electrochemical glucose sensing platform based on co-based metal-organic frameworks obtained from rapid in situ conversion of electrodeposited cobalt hydroxide intermediates. *Talanta*, **2020**, 210, 120696	6.2	28
163	Microflowers Comprised of Cu/CuxO/NC Nanosheets as Electrocatalysts and Horseradish Peroxidase Mimics. *ACS Applied Nano Materials*, **2020**, 3, 617-623	5.6	13
162	A stable and easily prepared copper oxide catalyst for degradation of organic pollutants by peroxymonosulfate activation. **2020**, 387, 121995		50
161	Metal oxides based electrochemical pH sensors: Current progress and future perspectives. **2020**, 109, 100635		119
160	Phytic acid doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for enzymeless amperometric sensing of glucose. *Mikrochimica Acta*, **2019**, 187, 49	5.8	8
159	Peptide-inspired green synthesis of hedgehog-like CuO nanoclusters on reduced graphene oxide for non-enzymatic hydrogen peroxide sensor. **2020**, 13, 2051047		0
158	Electrocatalytic performance of cobalt doped copper bismuth oxide for glucose sensing and photoelectrochemical applications. **2020**, 119, 108112		2
157	Imprinted zeolite modified carbon paste electrode as a selective potentiometric sensor for blood glucose. **2020**,		2
156	Design and Construction of Enzyme□Nanozyme Integrated Catalyst as a Multifunctional Detection Platform. **2020**, 59, 20646-20655		4
155	Surfactant-free liquid-exfoliated copper hydroxide nanocuboids for non-enzymatic electrochemical glucose detection. **2020**, 8, 7733-7739		4
154	Rapid synthesis of cypress-like CuO nanomaterials and CuO/MWCNTs composites for ultra-high sensitivity electrochemical sensing of nitrite. *Microchemical Journal*, **2020**, 159, 105439	4.8	7
153	Metal oxide-based composite for non-enzymatic glucose sensors. **2020**, 31, 16111-16136		12
152	Studies on dielectric constant and AC conductivity of nano porous silicon layer for efficient glucose sensing. **2020**, 31, 18996-19002		2
151	Unique Nonenzymatic Glucose Sensor Using a Hollow-Shelled Triple Oxide Mn-Cu-Al Nanocomposite. **2020**, 5, 23502-23509		8
150	Oxide nanomembrane induced assembly of a functional smart fiber composite with nanoporosity for an ultra-sensitive flexible glucose sensor. **2020**, 8, 26119-26129		11
149	Novel "turn on-off" paper sensor based on nonionic conjugated polythiophene-coated CdTe QDs for efficient visual detection of cholinesterase activity. **2020**, 145, 4305-4313		11
148	Hierarchically porous CuO spindle-like nanosheets grown on a carbon cloth for sensitive non-enzymatic glucose sensoring. **2020**, 31, 375502		11

147	Fabrication of sensitive D-fructose sensor based on facile ternary mixed ZnO/CdO/SnO2 nanocomposites by electrochemical approach. *Surfaces and Interfaces*, **2020**, 19, 100540	4.1	10
146	Non-Enzymatic Detection of Glucose Using a Capacitive Nanobiosensor Based on PVA Capped CuO Synthesized via Co-Precipitation Route. **2020**, 20, 10415-10423		3
145	Applications of Nanomaterials in Human Health. **2020**,		5
144	Electrochemical Preparation of Polyaniline- Supported Cu-CuO Core-Shell on 316L Stainless Steel Electrodes for Nonenzymatic Glucose Sensor. **2020**, 2020, 1-7		2
143	Electrode designed with a nanocomposite film of CuO Honeycombs/Ag nanoparticles electrogenerated on a magnetic platform as an amperometric glucose sensor. *Analytica Chimica Acta*, **2020**, 1111, 49-59	6.6	34
142	A Nonenzymatic Glucose Sensor Platform Based on Specific Recognition and Conductive Polymer-Decorated CuCoO Carbon Nanofibers. **2020**, 13,		10
141	Nonenzymatic glucose sensor based on poly(3,4-ethylene dioxythiophene)/electroreduced graphene oxide modified gold electrode. **2020**, 268, 116488		15
140	Facile synthesis of CuO/Ni(OH)2 on carbon cloth for non-enzymatic glucose sensing. **2020**, 529, 147067		24
139	Advanced Nanoscale Build-Up Sensors for Daily Life Monitoring of Diabetics. **2020**, 7, 2000153		16
138	Achieving Nonenzymatic Blood Glucose Sensing by Uprooting Saturation. **2020**, 92, 10777-10782		3
137	Review Recent Advances in Carbon Nanomaterials as Electrochemical Biosensors. *Journal of the Electrochemical Society*, **2020**, 167, 037555	3.9	148
136	Tunable hierarchical surfaces of CuO derived from metal organic frameworks for non-enzymatic glucose sensing. **2020**, 7, 1512-1525		20
135	Flexible Free-Standing CuO/AgO (= 1, 2) Nanowires Integrated with Nanoporous Cu-Ag Network Composite for Glucose Sensing. **2020**, 10,		2
134	Application of nanosensors in the food industry. **2020**, 355-368		5
133	Facile synthesis of silver nanoparticles using Azolla caroliniana, their cytotoxicity, catalytic, optical and antibacterial activity. **2020**, 25, 163-168		4
132	CuO/Cu composite nanospheres on a TiO nanotube array for amperometric sensing of glucose. *Mikrochimica Acta*, **2020**, 187, 123	5.8	13
131	Electrocatalysis via Intrinsic Surface Quinones Mediating Electron Transfer to and from Carbon Electrodes. **2020**, 11, 1497-1501		5
130	Comparison of sensing and electronic properties of C2H2 on different transition metal oxide nanoparticles (Fe2O3, NiO, TiO2) modified BNNT (10, 0). **2020**, 521, 146463		30

129	Fe content and calcination temperature effects on CuO nanoparticles. **2020**, 241, 1		
128	Porous CuxO/Ag2O (x = 1, 2) nanowires anodized on nanoporous Cu-Ag bimetal network as a self-supported flexible electrode for glucose sensing. **2020**, 515, 146062		21
127	Multicore□Shell Ag□CuO networked with CuO nanorods for enhanced non-enzymatic glucose detection. **2020**, 598, 124816		13
126	A multimodal approach for simultaneous mass and rotary inertia sensing from vibrating cantilevers. **2021**, 125, 114366		1
125	The effect of CuO on a Pt□Based catalyst for oxidation in a low-temperature fuel cell. **2021**, 46, 5999-6013		8
124	Ni-MOF/PANI-Derived CN-Doped NiO Nanocomposites for High Sensitive Nonenzymic Electrochemical Detection. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 31, 865-874	3.2	6
123	Heterostructured bismuth oxide/hexagonal-boron nitride nanocomposite: A disposable electrochemical sensor for detection of flutamide. **2021**, 207, 111276		21
122	Copper film electrode for sensitive detection of nitrophenols. **2021**, 330, 129338		4
121	Metal Oxides and Sulfide-Based Biosensors for Monitoring and Health Control. **2021**, 169-208		1
120	A reliable electrochemical approach for detection of testosterone with CuO-doped CeO2 nanocomposites-coated glassy carbon electrode. **2021**, 32, 5259-5273		4
119	Nanostructured architected electrode materials: Design and fabrication of electrodes for electrochemical sensing of glucose. **2021**, 219-242		1
118	Molecularly Imprinted Electrochemical Sensors and Their Applications. **2021**, 203-221		
117	CE/microchip electrophoresis of carbohydrates and glycoconjugates with electrochemical detection. **2021**, 563-594		
116	Enhancement of Electrocatalytic Activity upon the Addition of Single Wall Carbon Nanotube to the Redox-hydrogel-based Glucose Sensor. **2021**, 12, 33-37		
115	High-performance non-enzymatic glucose sensors based on porous Co3O4 synthesized by coprecipitation method with the different precipitants. **2021**, 27, 1803-1812		3
114	Electrospun amino-containing organosilica gel nanofibers for the ultrasensitive determination of Cu(II). *Journal of Electroanalytical Chemistry*, **2021**, 882, 114976	4.1	2
113	Metal oxide based non-enzymatic electrochemical sensors for glucose detection. **2021**, 370, 137744		51
112	Unique Nitrogen-Doped Carbon Polyhedron Embedded with Co Derived Core-Shell Nanoparticles for the Electro-Catalysis towards Hydrogen Peroxide Redox Reaction and Nonenzymatic Detection. *Journal of the Electrochemical Society*, **2021**, 168, 037501	3.9	2

111	Flexible Nonenzymatic Glucose Sensing with One-Step Laser-Fabricated Cu2O/Cu Porous Structure. **2021**, 23, 2100192		2
110	Optical sensors for continuous glucose monitoring. **2021**, 3, 022004		17
109	Nitrogen-doped carbon dodecahedron embedded with cobalt nanoparticles for the direct electro-oxidation of glucose and efficient nonenzymatic glucose sensing. *Talanta*, **2021**, 225, 121954	6.2	10
108	Recent advances in graphene based electrochemical glucose sensor. **2021**, 26, 100750		6
107	A review on recent advances in hierarchically porous metal and metal oxide nanostructures as electrode materials for supercapacitors and non-enzymatic glucose sensors. **2021**, 25, 101228		10
106	Nonenzymatic Saliva-Range Glucose Sensing Using Electrodeposited Cuprous Oxide Nanocubes on a Graphene Strip. *ACS Applied Nano Materials*, **2021**, 4, 4790-4799	5.6	6
105	ReviewRecent Trends in Supramolecular Recognition of Dopamine, Tyrosine, and Tryptophan, Using Electrochemical Sensors. *Journal of the Electrochemical Society*, **2021**, 168, 067517	3.9	2
104	Fabrication of hierarchical porous metallic glasses decorated with Cu nanoparticles as integrated electrodes for high-performance non-enzymatic glucose sensing. **2021**, 199, 113884		2
103	A Conformable, Gas-Permeable, and Transparent Skin-Like Micromesh Architecture for Glucose Monitoring. **2021**, 10, e2100046		2
102	Nano-CuO causes cell damage through activation of dose-dependent autophagy and mitochondrial lncCyt b-AS/ND5-AS/ND6-AS in SH-SY5Y cells. **2022**, 32, 37-48		2
101	Facile copper-based nanofibrous matrix for glucose sensing: Eenzymatic vs. non-enzymatic. **2021**, 140, 107751		8
100	A long-term stable and flexible glucose sensor coated with poly(ethylene glycol)-modified polyurethane. *Journal of Electroanalytical Chemistry*, **2021**, 895, 115518	4.1	1
99	RGO@Cu2O@Cu Ternary Nanocomposite for High-Performance Non-Enzymatic Glucose Detection. *Journal of the Electrochemical Society*, **2021**, 168, 087503	3.9	2
98	Facile synthesis of Cu/Co-ZIF nanoarrays for non-enzymatic glucose detection. **2021**, 32,		0
97	A Highly Sensitive Electrochemical Glucose Sensor Based on Room Temperature Exfoliated Graphite-Derived Film Decorated with Dendritic Copper. **2021**, 14,		1
96	Recent advances in the development of nanomedicines for the treatment of ischemic stroke. **2021**, 6, 2854-2869		13
95	Facile one-step synthesis of Ni@CeO2 nanoparticles towards high performance voltammetric sensing of antipsychotic drug trifluoperazine. **2021**, 882, 160682		5
94	Facile synthesis of 2D/3D hierarchical NiCu bimetallic MOF for non-enzymatic glucose sensor. *Microchemical Journal*, **2021**, 170, 106652	4.8	4

93	Electrocatalytic CuBr@CuO nanoparticles based salivary glucose probes. *Biosensors and Bioelectronics*, **2021**, 194, 113610	11.8	4
92	Highly sensitive non-enzymatic glucose sensor based on carbon nanotube microelectrode set. **2021**, 348, 130688		4
91	Copper oxide integrated perylene diimide self-assembled graphitic pencil for robust non-enzymatic dopamine detection.. *RSC Advances*, **2021**, 11, 25084-25095	3.7	7
90	Synthesis of Cu(OH)F microspheres using atmospheric dielectric barrier discharge microplasma: a high-performance non-enzymatic electrochemical sensor. *New Journal of Chemistry*,	3.6	0
89	Potential of Biogenic Plant-Mediated Copper and Copper Oxide Nanostructured Nanoparticles and Their Utility. **2019**, 115-176		5
88	Carbon Nanotubes and Their Composites: From Synthesis to Applications. **2021**, 37-67		3
87	CNT Applications in Microelectronics, Nanoelectronics, and Nanobioelectronics **2018**, 65-72		1
86	CNT Applications in Displays and Transparent, Conductive Films/Substrates. **2018**, 73-75		1
85	Graphene Applications in Electronics, Electrical Conductors, and Related Uses. **2018**, 141-146		3
84	Characterization Methods. **2018**, 403-488		2
83	Microwave- and Conductivity-Based Technologies. **2018**, 655-669		1
82	CNT Applications in Sensors and Actuators. **2018**, 53-60		2
81	Impact of CuO doping on the properties of CdO thin films on the catalytic degradation by using pulsed-Laser deposition technique. **2020**, 100, 109663		65
80	Efficient humidity sensor based on an etched no-core fiber coated with copper oxide nanoparticles. **2018**, 12, 1		13
79	Ultrasensitive Non-Enzymatic Glucose Sensors Based on Hybrid Reduced Graphene Oxide and Carbonized Silk Fabric Electrodes Decorated with Cu Nanoflowers. *Journal of the Electrochemical Society*, **2020**, 167, 127501	3.9	4
78	Metal-based Nanoparticles as Conductive Mediators in Electrochemical Sensors: A Mini Review. *Current Analytical Chemistry*, **2019**, 15, 136-142	1.7	9
77	Oxidative Stress Induced by CuO Nanoparticles (CuO NPs) to Human Hepatocarcinoma (HepG2) Cells. *Journal of Cancer Therapy*, **2015**, 06, 889-895	0.2	17
76	Detection of Breast Cancer 1 (BRCA1) Gene Using an Electrochemical DNA Biosensor Based on Immobilized ZnO Nanowires. *Open Journal of Applied Biosensor*, **2014**, 03, 9-17		28

75	Effective ROS generation and morphological effect of copper oxide nanoparticles as catalysts. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	0
74	Nanoparticle-Modified Electrodes for Sensing. **2014**, 47-87		
73	Bibliography. 327-351		
72	Improvement in Sensitivity of Electrochemical Glucose Biosensor Based on CuO/Au@MWCNTs Nanocomposites. *Applied Chemistry for Engineering*, **2016**, 27, 145-152		1
71	Nonenzymatic detection of glucose using BaCuO2 thin layer. *Japanese Journal of Applied Physics*, **2017**, 56, 01AH02	1.4	
70	Research of Using a New Type of Cu/Cu2O/TiO2 Electrode Detecting Saccharides Content. *Material Sciences*, **2017**, 07, 423-430	0.1	
69	Basic Electrochemistry of CPs. **2018**, 283-309		
68	Miscellaneous CNT Applications. **2018**, 89-90		
67	CNT Applications in Specialized Materials. **2018**, 45-48		
66	Structural Aspects and Morphology of CPs. **2018**, 389-402		
65	Electronic Structure and Conduction Models of Graphene. **2018**, 101-106		
64	Electrochromics. **2018**, 601-624		
63	Classes of CPs: Part 1. **2018**, 489-507		
62	Electro-Optic and Optical Devices. **2018**, 671-684		1
61	Conduction Models and Electronic Structure of CNTs. **2018**, 11-16		
60	Miscellaneous Applications. **2018**, 695-715		
59	CNT Applications in the Environment and in Materials Used in Separation Science. **2018**, 81-87		
58	Graphene Applications in Displays and Transparent, Conductive Films/Substrates. **2018**, 147-148		

57	Classes of CPs: Part 2. **2018**, 509-545		
56	Introducing Conducting Polymers (CPs). **2018**, 159-174		
55	Syntheses and Processing of CPs. **2018**, 311-388		
54	Physical, Mechanical, and Thermal Properties of CNTs. **2018**, 33-36		
53	CNT Applications in Electrical Conductors, Quantum Nanowires, and Potential Superconductors. **2018**, 77-79		
52	Toxicology of CNTs. **2018**, 37-39		
51	Synthesis, Purification, and Chemical Modification of CNTs. **2018**, 17-31		
50	Introducing Graphene. **2018**, 93-99		
49	Sensors. **2018**, 549-574		
48	Conduction Models and Electronic Structure of CPs. **2018**, 175-249		1
47	Brief, General Overview of Applications. **2018**, 123-124		
46	Electrochemomechanical, Chemomechanical, and Related Devices. **2018**, 685-693		
45	Displays, Including Light-Emitting Diodes (LEDs) and Conductive Films. **2018**, 625-654		
44	Construction of a selective non-enzymatic electrochemical sensor based on hollow nickel nanospheres/carbon dots-chitosan and molecularly imprinted polymer film for the detection of glucose. *New Journal of Chemistry*,	3.6	2
43	Application of Nanomaterials in Treatment of Endocrine Diseases. **2020**, 191-210		
42	High performance electrochemical method for simultaneous determination dopamine, serotonin, and tryptophan by ZrO-CuO co-doped CeO modified carbon paste electrode. *Talanta*, **2021**, 239, 122982	6.2	3
41	Facile synthesis of bimetallic metal-organic frameworks on nickel foam for a high performance non-enzymatic glucose sensor. *Journal of Electroanalytical Chemistry*, **2021**, 904, 115887	4.1	3
40	Ferrocene Decorated N-doped Carbon Modified Electrode with Enhanced Electrocatalytic Activity Towards Non-enzymatic Glucose Detection. *Electroanalysis*,	3	

39	Selective Glucose Sensing Under Physiological pH with Flexible and Binder-Free Prussian Blue Coated Carbon Cloth Electrodes. *ChemElectroChem*,	4.3	1
38	Effect of Fe/Cu catalysts supported on zeolite/active carbon hybrid on bio-oil quality derived from catalytic pyrolysis of granular bacteria biomass. *Fuel*, **2022**, 312, 122870	7.1	1
37	The enhancement of microbial fuel cell performance by anodic bacterial community adaptation and cathodic mixed nickel-copper oxides on a graphene electrocatalyst.. *Journal of Genetic Engineering and Biotechnology*, **2022**, 20, 12	3.1	2
36	Fabrication of ionic liquid stabilized MXene interface for electrochemical dopamine detection.. *Mikrochimica Acta*, **2022**, 189, 64	5.8	6
35	Evaluation of mixed transition metal (Co, Mn, and Cu) oxide electrocatalysts anchored on different carbon supports for robust oxygen reduction reaction in neutral media.. *RSC Advances*, **2022**, 12, 2207-2218	3.7	2
34	An efficient glucose sensor thermally calcined from copper-organic coordination cages.. *Talanta*, **2022**, 241, 123263	6.2	3
33	Revisiting Some Recently Developed Conducting Polymer@Metal Oxide Nanostructures for Electrochemical Sensing of Vital Biomolecules: A Review. *Journal of Analysis and Testing*, 1	3.2	0
32	Nickel -doped iron oxide nanoparticle-conjugated porphyrin interface (porphyrin/FeO@Ni) for the non-enzymatic detection of dopamine from lacrimal fluid.. *Dalton Transactions*, **2022**,	4.3	3
31	Recent Progress in Graphene- and Related Carbon-Nanomaterial-based Electrochemical Biosensors for Early Disease Detection.. *ACS Biomaterials Science and Engineering*, **2022**,	5.5	4
30	Prussian Blue-Based Flexible Thin Film Nanoarchitectonics for Non-enzymatic Electrochemical Glucose Sensor. *Journal of Inorganic and Organometallic Polymers and Materials*, 1	3.2	0
29	A zinc oxide nanorods/molybdenum disulfide nanosheets hybrid as a sensitive and reusable electrochemical sensor for determination of anti-retroviral agent indinavir.. *Chemosphere*, **2022**, 134430	8.4	0
28	Oxidation of Copper Electrodes on Flexible Polyimide Substrates for Non-Enzymatic Glucose Sensing. *Materials Research Express*,	1.7	
27	Application of electrochemical sensors based on nanomaterials modifiers in the determination of antipsychotics.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 214, 112442	6	0
26	A novel green synthesized NiO nanoparticles modified glassy carbon electrode for non-enzymatic glucose sensing. *Microchemical Journal*, **2022**, 178, 107332	4.8	1
25	CuPd Alloy Nanoparticles on Carbon Paper as a Self-Supporting Electrode for Glucose Sensing. *ACS Applied Nano Materials*, **2021**, 4, 14077-14085	5.6	1
24	ZIFs derived polyhedron with cobalt oxide nanoparticles as novel nanozyme for the biomimetic catalytic oxidation of glucose and non-enzymatic sensor.. *Analytica Chimica Acta*, **2022**, 1209, 339839	6.6	0
23	Green Fabrication of Nonenzymatic Glucose Sensor Using Multi-Walled Carbon Nanotubes Decorated with Copper (II) Oxide Nanoparticles for Tear Fluid Analysis.. *Applied Biochemistry and Biotechnology*, **2022**, 1	3.2	1
22	Surface modification of CuO nanoparticles with conducting polythiophene as a non-enzymatic amperometric sensor for sensitive and selective determination of hydrogen peroxide. *Surfaces and Interfaces*, **2022**, 31, 101998	4.1	3

21	Non-Enzymatic Glucose Sensors Involving Copper: An Electrochemical Perspective. *Critical Reviews in Analytical Chemistry*, 1-57	5.2	2
20	High-Performance Non-Enzymatic Glucose Sensor Based on Boron-Doped Copper Oxide Nanbundles. *Journal of the Electrochemical Society*, **2022**, 169, 067506	3.9	
19	Cell-Type-Dependent Dissolution of CuO Nanoparticles and Efflux of Cu Ions following Cellular Internalization.		1
18	Glucose-sensitive structural color change of cholesteric liquid crystal formed by hydroxypropyl cellulose with phenylboronic acid moieties.		
17	A fully handwritten-on-paper copper nanoparticle ink-based electroanalytical sweat glucose biosensor fabricated using dual-step pencil and pen approach. **2022**, 340257		1
16	A miniature CuO nanoarray sensor for noninvasive detection of trace salivary glucose. **2022**, 656, 114857		1
15	Cellulose microfluidic pH boosting on copper oxide non-enzymatic glucose sensor strip for neutral pH samples. **2023**, 253, 123926		0
14	Synthesis and application of a 0D/2D nanocomposite for the nanomolar level detection of an antiandrogen drug. **2022**, 46, 16068-16077		0
13	An extended gate field-effect transistor (EG-FET) type non-enzymatic glucose sensor with inkjet-printed copper oxide nanoparticles. **2022**, 4,		0
12	A Novel Carbon Paste Electrode-Modified Electrocatalytic CO□eN□Ps for Sulfite Detection: A Sonochemical Synthesis.		0
11	Facile Fabrication of CuO Nanoparticles Embedded in N-Doped Carbon Nanostructure for Electrochemical Sensing of Dopamine. **2022**, 2022, 1-9		0
10	Highly sensitive non-enzymatic glucose sensor based on copper oxide nanorods. **2022**, 24,		0
9	Atomic-scale interfacial engineering enables high-performance electrochemical glucose detection. **2022**, 155503		0
8	Polypyrrole enwrapped binary metal oxides nanostructures for in-vitro Dopamine detection from lacrimal fluid. **2023**, 185, 108254		0
7	Synthesis and characterization of CuO nanostructures on ZnO nanotubes for non-enzymatic detection of glucose. **2023**, 295, 127207		0
6	Highly Selective and Sensitive Non-enzymatic Glucose Biosensor Based on Polypyrrole-Borophene Nanocomposite.		0
5	Blood glucose sensing by back gated transistor strips sensitized by CuO hollow spheres and rGO. **2022**, 12,		1
4	In-situ synthesis of metasequoia-leaf-like Cu/Cu2O/Ni(OH)2 on a glassy carbon electrode for efficient non-enzymatic glucose sensing. **2023**, 187, 108331		0

3	Synthesis, Characterization, and Electrochemical Evaluation of Copper Sulfide Nanoparticles and Their Application for Non-Enzymatic Glucose Detection in Blood Samples. **2023**, 13, 481	0
2	An effective non-enzymatic glucose biosensor based on nanostructure CuxO/Cu electrodes synthesized in situ by copper anodization.	0
1	A review of electrochemical glucose sensing based on transition metal phosphides. **2023**, 133, 070702	0