

Sheng-Ming Chen

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747
papers

20,568
citations

66
h-index

94
g-index

761
ext. papers

24,786
ext. citations

6
avg, IF

7.83
L-index

#	Paper	IF	Citations
747	Direct electrochemistry of glucose oxidase at electrochemically reduced graphene oxide-multiwalled carbon nanotubes hybrid material modified electrode for glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 309-15	11.8	300
746	A simple electrochemical approach to fabricate a glucose biosensor based on graphene-glucose oxidase biocomposite. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 70-5	11.8	285
745	Preparation and characterization of PtAu hybrid film modified electrodes and their use in simultaneous determination of dopamine, ascorbic acid and uric acid. <i>Talanta</i> , 2007 , 74, 212-22	6.2	260
744	Highly selective amperometric nitrite sensor based on chemically reduced graphene oxide modified electrode. <i>Electrochemistry Communications</i> , 2012 , 17, 75-78	5.1	237
743	Electrocatalysis and simultaneous detection of dopamine and ascorbic acid using poly(3,4-ethylenedioxy)thiophene film modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 592, 77-87	4.1	228
742	Honeycomb-like Porous Carbon-Cobalt Oxide Nanocomposite for High-Performance Enzymeless Glucose Sensor and Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15812-20	9.5	180
741	Performing enzyme-free H ₂ O ₂ biosensor and simultaneous determination for AA, DA, and UA by MWCNT-PEDOT film. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 608-14	11.8	173
740	A novel nonenzymatic hydrogen peroxide sensor based on reduced graphene oxide/ZnO composite modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 372-377	8.5	161
739	Amperometric glucose sensor based on glucose oxidase immobilized on gelatin-multiwalled carbon nanotube modified glassy carbon electrode. <i>Bioelectrochemistry</i> , 2011 , 80, 114-20	5.6	152
738	Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. <i>Mikrochimica Acta</i> , 2013 , 180, 1037-1042	5.8	138
737	Eco-friendly synthesis of activated carbon from dead mango leaves for the ultrahigh sensitive detection of toxic heavy metal ions and energy storage applications. <i>RSC Advances</i> , 2014 , 4, 1225-1233	3.7	132
736	Nanocomposite of functionalized multiwall carbon nanotubes with nafion, nano platinum, and nano gold biosensing film for simultaneous determination of ascorbic acid, epinephrine, and uric acid. <i>Analytical Biochemistry</i> , 2007 , 365, 122-31	3.1	131
735	Direct electrochemistry of myoglobin at reduced graphene oxide-multiwalled carbon nanotubes-platinum nanoparticles nanocomposite and biosensing towards hydrogen peroxide and nitrite. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 420-7	11.8	130
734	Simultaneous electrochemical determination of dopamine and paracetamol on multiwalled carbon nanotubes/graphene oxide nanocomposite-modified glassy carbon electrode. <i>Talanta</i> , 2013 , 117, 297-304	6.2	130
733	Solvent-free mechanochemical synthesis of graphene oxide and Fe ₃ O ₄ /reduced graphene oxide nanocomposites for sensitive detection of nitrite. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15529-15539	13	128
732	A highly sensitive nonenzymatic glucose sensor based on multi-walled carbon nanotubes decorated with nickel and copper nanoparticles. <i>Electrochimica Acta</i> , 2013 , 96, 164-172	6.7	125
731	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. <i>Scientific Reports</i> , 2017 , 7, 46471	4.9	119

730	A Study of Electrocatalytic and Photocatalytic Activity of Cerium Molybdate Nanocubes Decorated Graphene Oxide for the Sensing and Degradation of Antibiotic Drug Chloramphenicol. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6547-6559	9.5	116
729	Molybdenum disulfide nanosheets coated multiwalled carbon nanotubes composite for highly sensitive determination of chloramphenicol in food samples milk, honey and powdered milk. <i>Journal of Colloid and Interface Science</i> , 2017 , 485, 129-136	9.3	116
728	Poly(3,4-ethylenedioxythiophene-co-(5-amino-2-naphthalenesulfonic acid)) (PEDOT-PANS) film modified glassy carbon electrode for selective detection of dopamine in the presence of ascorbic acid and uric acid. <i>Analytica Chimica Acta</i> , 2007 , 596, 92-8	6.6	116
727	Easy modification of glassy carbon electrode for simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2712-5	11.8	114
726	Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. <i>Journal of Hazardous Materials</i> , 2014 , 279, 117-24	12.8	112
725	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 450-456	8.5	112
724	Enzymatic electrochemical glucose biosensors by mesoporous 1D hydroxyapatite-on-2D reduced graphene oxide. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1360-1370	7.3	110
723	Palladium Nanoparticle Incorporated Porous Activated Carbon: Electrochemical Detection of Toxic Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1319-26	9.5	110
722	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 164-9	6	110
721	Multi-walled carbon nanotubes with poly(methylene blue) composite film for the enhancement and separation of electroanalytical responses of catecholamine and ascorbic acid. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 739-749	8.5	108
720	Sonochemical Synthesis of Sulfur Doped Reduced Graphene Oxide Supported CuS Nanoparticles for the Non-Enzymatic Glucose Sensor Applications. <i>Scientific Reports</i> , 2017 , 7, 2494	4.9	103
719	Nickel Nanoparticle-Decorated Porous Carbons for Highly Active Catalytic Reduction of Organic Dyes and Sensitive Detection of Hg(II) Ions. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24810-21	9.5	101
718	Silver nanoparticles synthesized from Adenium obesum leaf extract induced DNA damage, apoptosis and autophagy via generation of reactive oxygen species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 141, 158-169	6	99
717	Green synthesized gold nanoparticles decorated graphene oxide for sensitive determination of chloramphenicol in milk, powdered milk, honey and eye drops. <i>Journal of Colloid and Interface Science</i> , 2016 , 475, 46-56	9.3	99
716	Highly selective amperometric sensor for the trace level detection of hydrazine at bismuth nanoparticles decorated graphene nanosheets modified electrode. <i>Talanta</i> , 2014 , 124, 43-51	6.2	97
715	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. <i>Enzyme and Microbial Technology</i> , 2015 , 78, 40-5	3.8	96
714	3D graphene oxide-cobalt oxide polyhedrons for highly sensitive non-enzymatic electrochemical determination of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 773-783	8.5	95
713	Fabrication of potato-like silver molybdate microstructures for photocatalytic degradation of chronic toxicity ciprofloxacin and highly selective electrochemical detection of HO. <i>Scientific Reports</i> , 2016 , 6, 34149	4.9	90

712	Heteroatom-enriched and renewable banana-stem-derived porous carbon for the electrochemical determination of nitrite in various water samples. <i>Scientific Reports</i> , 2014 , 4, 4679	4.9	88
711	Palladium nanoparticles modified electrode for the selective detection of catecholamine neurotransmitters in presence of ascorbic acid. <i>Bioelectrochemistry</i> , 2009 , 75, 163-9	5.6	87
710	Zinc oxide/redox mediator composite films-based sensor for electrochemical detection of important biomolecules. <i>Analytical Biochemistry</i> , 2008 , 380, 174-83	3.1	87
709	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. <i>Scientific Reports</i> , 2017 , 7, 11910	4.9	86
708	Modern Approach to the Synthesis of Ni(OH) ₂ Decorated Sulfur Doped Carbon Nanoparticles for the Nonenzymatic Glucose Sensor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22545-53	9.5	86
707	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. <i>Electrochimica Acta</i> , 2015 , 176, 804-810	6.7	84
706	Determination of dopamine using a glassy carbon electrode modified with a graphene and carbon nanotube hybrid decorated with molybdenum disulfide flowers. <i>Mikrochimica Acta</i> , 2016 , 183, 2267-2275	5.8	83
705	Construction of novel Pd/CeO ₂ /g-CN nanocomposites as efficient visible-light photocatalysts for hexavalent chromium detoxification. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 514-526	9.3	82
704	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. <i>Materials Science and Engineering C</i> , 2015 , 56, 374-9	8.3	82
703	Rapid microwave assisted synthesis of graphene nanosheets/polyethyleneimine/gold nanoparticle composite and its application to the selective electrochemical determination of dopamine. <i>Talanta</i> , 2014 , 120, 148-57	6.2	82
702	A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. <i>Electrochimica Acta</i> , 2014 , 139, 157-164	6.7	82
701	A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. <i>Scientific Reports</i> , 2017 , 7, 41214	4.9	79
700	Innovative Strategy Based on a Novel Carbon-Black-βCyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. <i>Analytical Chemistry</i> , 2018 , 90, 6283-6291	7.8	79
699	Manganese doped Co ₃ O ₄ mesoporous nanoneedle array for long cycle-stable supercapacitors. <i>Applied Surface Science</i> , 2019 , 469, 941-950	6.7	79
698	Electrocatalytic oxidation of thiosulfate by metal hexacyanoferrate film modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 417, 145-153	4.1	77
697	Nanocomposites composed of layered molybdenum disulfide and graphene for highly sensitive amperometric determination of methyl parathion. <i>Mikrochimica Acta</i> , 2017 , 184, 725-733	5.8	76
696	Hierarchical CdInS microspheres wrapped by mesoporous g-CN ultrathin nanosheets with enhanced visible light driven photocatalytic reduction activity. <i>Journal of Hazardous Materials</i> , 2016 , 320, 529-538	12.8	76
695	Electrochemical detection of 4-nitrophenol based on biomass derived activated carbons. <i>Analytical Methods</i> , 2014 , 6, 5274	3.2	74

694	Ultrathin Sulfur-Doped Graphitic Carbon Nitride Nanosheets As Metal-Free Catalyst for Electrochemical Sensing and Catalytic Removal of 4-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16021-16031	8.3	74
693	Electrochemical preparation of activated graphene oxide for the simultaneous determination of hydroquinone and catechol. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 54-62	9.3	73
692	Amperometric glucose biosensor based on glucose oxidase dispersed in multiwalled carbon nanotubes/graphene oxide hybrid biocomposite. <i>Materials Science and Engineering C</i> , 2014 , 34, 207-13	8.3	73
691	Highly selective dopamine electrochemical sensor based on electrochemically pretreated graphite and nafion composite modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2013 , 411, 182-6	9.3	73
690	Electrocatalysis and simultaneous determination of catechol and quinol by poly(malachite green) coated multiwalled carbon nanotube film. <i>Analytical Biochemistry</i> , 2011 , 411, 71-9	3.1	73
689	Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16015-16022	13	72
688	Highly stable and sensitive amperometric sensor for the determination of trace level hydrazine at cross linked pectin stabilized gold nanoparticles decorated graphene nanosheets. <i>Electrochimica Acta</i> , 2014 , 135, 260-269	6.7	72
687	Lignocellulosic biomass-derived, graphene sheet-like porous activated carbon for electrochemical supercapacitor and catechin sensing. <i>RSC Advances</i> , 2017 , 7, 45668-45675	3.7	68
686	Electrochemically synthesized Pt/MnO ₂ composite particles for simultaneous determination of catechol and hydroquinone. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 235-242	8.5	68
685	Simultaneous determination of catechol and hydroquinone using a Pt/ZrO ₂ -RGO/GCE composite modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2014 , 125, 503-509	6.7	67
684	Highly sensitive amperometric sensor for carbamazepine determination based on electrochemically reduced graphene oxide/single-walled carbon nanotube composite film. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 274-280	8.5	67
683	Synthesis and characterization of polypyrrole decorated graphene/β-cyclodextrin composite for low level electrochemical detection of mercury (II) in water. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 888-894	8.5	66
682	Amperometric determination of H ₂ O ₂ at nano-TiO ₂ /DNA/thionin nanocomposite modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 66, 266-73	6	66
681	Simultaneous determination of adenine guanine and thymine at multi-walled carbon nanotubes incorporated with poly(new fuchsin) composite film. <i>Analytica Chimica Acta</i> , 2009 , 636, 19-27	6.6	64
680	Environmentally friendly synthesis of CeO nanoparticles for the catalytic oxidation of benzyl alcohol to benzaldehyde and selective detection of nitrite. <i>Scientific Reports</i> , 2017 , 7, 46372	4.9	62
679	Flower-Like Nickel/Cobalt Oxide Decorated Dopamine-Derived Carbon Nanocomposite for High Performance Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5013-5020	8.3	62
678	Simplistic synthesis of ultrafine CoMnO nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. <i>Journal of Hazardous Materials</i> , 2019 , 361, 123-133	12.8	62
677	Palladium nanoparticles decorated on activated fullerene modified screen printed carbon electrode for enhanced electrochemical sensing of dopamine. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 251-6	9.3	62

676	Electrocatalytic reduction of oxygen and hydrogen peroxide at poly(p-aminobenzene sulfonic acid)-modified glassy carbon electrodes. <i>Journal of Molecular Catalysis A</i> , 2007 , 278, 244-250		62
675	Preparation and characterization of gold nanoparticles decorated on graphene oxide@polydopamine composite: Application for sensitive and low potential detection of catechol. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 298-306	8.5	62
674	Electrochemical properties of the acetaminophen on the screen printed carbon electrode towards the high performance practical sensor applications. <i>Journal of Colloid and Interface Science</i> , 2016 , 483, 109-117	9.3	61
673	Graphene oxide encapsulated 3D porous chalcopyrite (CuFeS ₂) nanocomposite as an emerging electrocatalyst for agro-hazardous (methyl paraxon) detection in vegetables. <i>Composites Part B: Engineering</i> , 2019 , 160, 268-276	10	61
672	Highly sensitive and selective hydrogen peroxide biosensor based on hemoglobin immobilized at multiwalled carbon nanotubes-zinc oxide composite electrode. <i>Analytical Biochemistry</i> , 2012 , 429, 108-115	3.1	60
671	Nanomolar electrochemical detection of caffeic acid in fortified wine samples based on gold/palladium nanoparticles decorated graphene flakes. <i>Journal of Colloid and Interface Science</i> , 2017 , 501, 77-85	9.3	59
670	Amperometric biosensor for hydrogen peroxide based on coimmobilized horseradish peroxidase and methylene green in ormosils matrix with multiwalled carbon nanotubes. <i>Talanta</i> , 2009 , 79, 38-45	6.2	59
669	A review on direct electrochemistry of catalase for electrochemical sensors. <i>Sensors</i> , 2009 , 9, 1821-44	3.8	59
668	Synthesis of silver nanoparticles decorated on core-shell structured tannic acid-coated iron oxide nanospheres for excellent electrochemical detection and efficient catalytic reduction of hazardous 4-nitrophenol. <i>Composites Part B: Engineering</i> , 2019 , 162, 33-42	10	59
667	Functional porous carbon-ZnO nanocomposites for high-performance biosensors and energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16466-75	3.6	58
666	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , 2015 , 5, 31139-31146	3.7	56
665	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. <i>Analytica Chimica Acta</i> , 2018 , 1030, 52-60	6.6	56
664	A review of the advanced developments of electrochemical sensors for the detection of toxic and bioactive molecules. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 3418-3439	6.8	55
663	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 705-718	6.8	55
662	Microwave-assisted synthesis of Bi ₂ WO ₆ flowers decorated graphene nanoribbon composite for electrocatalytic sensing of hazardous dihydroxybenzene isomers. <i>Composites Part B: Engineering</i> , 2018 , 152, 220-230	10	55
661	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2017 , 487, 370-377	9.3	55
660	Preparation and characterization of bismuth oxide nanoparticles-multiwalled carbon nanotube composite for the development of horseradish peroxidase based H ₂ O ₂ biosensor. <i>Talanta</i> , 2011 , 87, 15-23	6.2	55
659	One-pot synthesis of highly stable silver nanoparticles-conducting polymer nanocomposite and its catalytic application. <i>Synthetic Metals</i> , 2009 , 159, 2544-2549	3.6	55

658	Biosynthesis of silver nanoparticles by using <i>Camellia japonica</i> leaf extract for the electrocatalytic reduction of nitrobenzene and photocatalytic degradation of Eosin-Y. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 170, 164-172	6.7	54
657	A new electrochemical sensor for highly sensitive and selective detection of nitrite in food samples based on sonochemical synthesized Calcium Ferrite (CaFeO) clusters modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2018 , 524, 417-426	9.3	54
656	A novel amperometric nitrite sensor based on screen printed carbon electrode modified with graphite/ β -cyclodextrin composite. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 760, 97-104	4.1	54
655	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. <i>RSC Advances</i> , 2017 , 7, 25702-25709	3.7	53
654	Determination of 4-nitrophenol in water by use of a screen-printed carbon electrode modified with chitosan-crafted ZnO nanoneedles. <i>Journal of Colloid and Interface Science</i> , 2017 , 499, 83-92	9.3	53
653	A novel yet simple strategy to fabricate visible light responsive C,N-TiO ₂ /g-C ₃ N ₄ heterostructures with significantly enhanced photocatalytic hydrogen generation. <i>RSC Advances</i> , 2015 , 5, 101214-101220	3.7	53
652	Direct electrochemistry of cytochrome c immobilized on a graphene oxide/carbon nanotube composite for picomolar detection of hydrogen peroxide. <i>RSC Advances</i> , 2014 , 4, 28229-28237	3.7	53
651	Screen-printed electrode modified with a composite prepared from graphene oxide nanosheets and Mn ₃ O ₄ microcubes for ultrasensitive determination of nitrite. <i>Mikrochimica Acta</i> , 2017 , 184, 3625-3634	5.8	52
650	A voltammetric determination of caffeic acid in red wines based on the nitrogen doped carbon modified glassy carbon electrode. <i>Scientific Reports</i> , 2017 , 7, 45924	4.9	51
649	Three-Dimensional Fibrous Network of Na MnO for Aqueous Sodium-Ion Hybrid Supercapacitors. <i>Chemistry - A European Journal</i> , 2017 , 23, 2379-2386	4.8	51
648	Green synthesis of reduced graphene oxide supported TiO ₂ /Co ₃ O ₄ nanocomposite for photocatalytic degradation of methylene blue and crystal violet. <i>Ceramics International</i> , 2019 , 45, 12926-12933	5.1	51
647	An electrochemical synthesis strategy for composite based ZnO microspheres/Au nanoparticles on reduced graphene oxide for the sensitive detection of hydrazine in water samples. <i>RSC Advances</i> , 2015 , 5, 54379-54386	3.7	51
646	3D Flower-Like Gadolinium Molybdate Catalyst for Efficient Detection and Degradation of Organophosphate Pesticide (Fenitrothion). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15652-15664	9.5	51
645	Low-Temperature Chemical Synthesis of CoWO ₄ Nanospheres for Sensitive Nonenzymatic Glucose Sensor. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17024-17028	3.8	51
644	Electrochemical preparation and electrocatalytic properties of PEDOT/ferricyanide film-modified electrodes. <i>Electrochimica Acta</i> , 2005 , 51, 347-355	6.7	51
643	Preparation of highly stable fullerene C ₆₀ decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. <i>Journal of Colloid and Interface Science</i> , 2016 , 462, 375-81	9.3	50
642	One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. <i>Scientific Reports</i> , 2017 , 7, 41213	4.9	50
641	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. <i>Scientific Reports</i> , 2017 , 7, 14182	4.9	50

640	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1847-1854	2.6	50
639	Pinecone shape hydroxypropyl- β -cyclodextrin on a film of multi-walled carbon nanotubes coated with gold particles for the simultaneous determination of tyrosine, guanine, adenine and thymine. <i>Carbon</i> , 2007 , 45, 2783-2796	10.4	50
638	Carboxyl-functionalized graphene oxide-modified electrode for the electrochemical determination of nonsteroidal anti-inflammatory drug diclofenac. <i>Ionics</i> , 2015 , 21, 231-238	2.7	49
637	Hydrothermal synthesis of NiWO ₄ crystals for high performance non-enzymatic glucose biosensors. <i>Scientific Reports</i> , 2016 , 6, 24128	4.9	49
636	In situ electrochemical synthesis of highly loaded zirconium nanoparticles decorated reduced graphene oxide for the selective determination of dopamine and paracetamol in presence of ascorbic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 115, 295-301	6	49
635	A simple strategy for the immobilization of catalase on multi-walled carbon nanotube/poly (L-lysine) biocomposite for the detection of H ₂ O ₂ and iodate. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 639-47	11.8	49
634	Multiwalled carbon nanotubes dispersed in carminic acid for the development of catalase based biosensor for selective amperometric determination of H ₂ O ₂ and iodate. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 151-8	11.8	49
633	A high performance quasi-solid-state supercapacitor based on CuMnO ₂ nanoparticles. <i>Journal of Power Sources</i> , 2017 , 355, 53-61	8.9	48
632	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with Mn ₂ Se ₂ (M = Zn, Mn, and Cu). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12565-12581	13	48
631	Fabrication of Bi ₂ MoO ₆ nanoplates hybridized with g-C ₃ N ₄ nanosheets as highly efficient visible light responsive heterojunction photocatalysts for Rhodamine B degradation. <i>Materials Science in Semiconductor Processing</i> , 2015 , 35, 45-54	4.3	48
630	Determination of oxidative stress biomarker 3-nitro-L-tyrosine using CdWO ₄ nanodots decorated reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 274-281	8.5	48
629	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. <i>Analyst, The</i> , 2014 , 139, 4994-5000	5	47
628	Sonochemical synthesis of molybdenum oxide (MoO) microspheres anchored graphitic carbon nitride (g-CN) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. <i>Ultrasonics Sonochemistry</i> , 2019 , 50, 96-104	8.9	47
627	Preparation of β -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. <i>Carbohydrate Polymers</i> , 2016 , 135, 267-73	10.3	46
626	Biomass-derived functional porous carbons as novel electrode material for the practical detection of biomolecules in human serum and snail hemolymph. <i>Scientific Reports</i> , 2015 , 5, 10141	4.9	46
625	Facile Solvothermal Preparation of MnCuO Microspheres: Excellent Electrocatalyst for Real-Time Detection of HO Released from Live Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43543-43551	9.5	46
624	Green reduction of reduced graphene oxide with nickel tetraphenyl porphyrin nanocomposite modified electrode for enhanced electrochemical determination of environmentally pollutant nitrobenzene. <i>Journal of Colloid and Interface Science</i> , 2017 , 497, 207-216	9.3	45
623	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. <i>Renewable Energy</i> , 2015 , 74, 867-874	8.1	45

622	Two-dimensional metal chalcogenides analogous NiSe nanosheets and its efficient electrocatalytic performance towards glucose sensing. <i>Journal of Colloid and Interface Science</i> , 2017 , 507, 378-385	9.3	45
621	NiCo2O4-decorated porous carbon nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 247, 288-295	6.7	45
620	Heteroatom-enriched porous carbon/nickel oxide nanocomposites as enzyme-free highly sensitive sensors for detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1384-1390	8.5	45
619	Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. <i>Enzyme and Microbial Technology</i> , 2014 , 66, 60-6	3.8	45
618	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. <i>RSC Advances</i> , 2015 , 5, 77651-77657	3.7	44
617	Construction of carbon bridged TiO2/CdS tandem Z-scheme heterojunctions toward efficient photocatalytic antibiotic degradation and Cr (VI) reduction. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153915	5.7	44
616	Hierarchically structured CuFe2O4 ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 944-950	6.8	44
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107	High-performance electrochemical sensing of hazardous pesticide Paraoxon using BiVO nano dendrites equipped catalytic strips. <i>Chemosphere</i> , 2021 , 132511	8.4	4
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