Shen-ming Chen

List of Publications by Citations

753 papers	18,771 citations	61 h-index	91 g-index
769 ext. papers	23,278 ext. citations	5.9 avg, IF	7.78 L-index

#	Paper	IF	Citations
753	A Review on the Electrochemical Sensors and Biosensors Composed of Nanowires as Sensing Material. *Sensors*, **2008**, 8, 290-313	3.8	367
752	A Single-Atom Nanozyme for Wound Disinfection Applications. *Angewandte Chemie - International Edition*, **2019**, 58, 4911-4916	16.4	335
751	Direct electrochemistry of glucose oxidase at electrochemically reduced graphene oxide-multiwalled carbon nanotubes hybrid material modified electrode for glucose biosensor. *Biosensors and Bioelectronics*, **2013**, 41, 309-15	11.8	300
750	Highly selective amperometric nitrite sensor based on chemically reduced graphene oxide modified electrode. *Electrochemistry Communications*, **2012**, 17, 75-78	5.1	237
749	Honeycomb-like Porous Carbon-Cobalt Oxide Nanocomposite for High-Performance Enzymeless Glucose Sensor and Supercapacitor Applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 15812-20	9.5	180
748	Performing enzyme-free H2O2 biosensor and simultaneous determination for AA, DA, and UA by MWCNT-PEDOT film. *Biosensors and Bioelectronics*, **2010**, 26, 608-14	11.8	173
747	A novel nonenzymatic hydrogen peroxide sensor based on reduced graphene oxide/ZnO composite modified electrode. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 372-377	8.5	161
746	Amperometric glucose sensor based on glucose oxidase immobilized on gelatin-multiwalled carbon nanotube modified glassy carbon electrode. *Bioelectrochemistry*, **2011**, 80, 114-20	5.6	152
745	Dopamine sensor based on a glassy carbon electrode modified with a reduced graphene oxide and palladium nanoparticles composite. *Mikrochimica Acta*, **2013**, 180, 1037-1042	5.8	138
744	Eco-friendly synthesis of activated carbon from dead mango leaves for the ultrahigh sensitive detection of toxic heavy metal ions and energy storage applications. *RSC Advances*, **2014**, 4, 1225-1233	3.7	132
743	Direct electrochemistry of myoglobin at reduced graphene oxide-multiwalled carbon nanotubes-platinum nanoparticles nanocomposite and biosensing towards hydrogen peroxide and nitrite. *Biosensors and Bioelectronics*, **2014**, 53, 420-7	11.8	130
742	Simultaneous electrochemical determination of dopamine and paracetamol on multiwalled carbon nanotubes/graphene oxide nanocomposite-modified glassy carbon electrode. *Talanta*, **2013**, 117, 297-304	6.2	130
741	Solvent-free mechanochemical synthesis of graphene oxide and Fe3O4–reduced graphene oxide nanocomposites for sensitive detection of nitrite. *Journal of Materials Chemistry A*, **2015**, 3, 15529-15539	13	128
740	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. *Scientific Reports*, **2017**, 7, 46471	4.9	119
739	A Study of Electrocatalytic and Photocatalytic Activity of Cerium Molybdate Nanocubes Decorated Graphene Oxide for the Sensing and Degradation of Antibiotic Drug Chloramphenicol. *ACS Applied Materials & Interfaces*, **2017**, 9, 6547-6559	9.5	116
738	Molybdenum disulfide nanosheets coated multiwalled carbon nanotubes composite for highly sensitive determination of chloramphenicol in food samples milk, honey and powdered milk. *Journal of Colloid and Interface Science*, **2017**, 485, 129-136	9.3	116
737	Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. *Journal of Hazardous Materials*, **2014**, 279, 117-24	12.8	112

736	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. *Sensors and Actuators B: Chemical*, **2014**, 196, 450-456	8.5	112
735	Electroanalysis of NADH Using Conducting and Redox Active Polymer/Carbon Nanotubes Modified Electrodes-A Review. *Sensors*, **2008**, 8, 739-766	3.8	112
734	Palladium Nanoparticle Incorporated Porous Activated Carbon: Electrochemical Detection of Toxic Metal Ions. *ACS Applied Materials & Interfaces*, **2016**, 8, 1319-26	9.5	110
733	Direct electrochemistry and electrocatalysis of glucose oxidase immobilized on reduced graphene oxide and silver nanoparticles nanocomposite modified electrode. *Colloids and Surfaces B: Biointerfaces*, **2014**, 114, 164-9	6	110
732	Sonochemical Synthesis of Sulfur Doped Reduced Graphene Oxide Supported CuS Nanoparticles for the Non-Enzymatic Glucose Sensor Applications. *Scientific Reports*, **2017**, 7, 2494	4.9	103
731	Nickel Nanoparticle-Decorated Porous Carbons for Highly Active Catalytic Reduction of Organic Dyes and Sensitive Detection of Hg(II) Ions. *ACS Applied Materials & Interfaces*, **2015**, 7, 24810-21	9.5	101
730	Silver nanoparticles synthesized from Adenium obesum leaf extract induced DNA damage, apoptosis and autophagy via generation of reactive oxygen species. *Colloids and Surfaces B: Biointerfaces*, **2016**, 141, 158-169	6	99
729	Green synthesized gold nanoparticles decorated graphene oxide for sensitive determination of chloramphenicol in milk, powdered milk, honey and eye drops. *Journal of Colloid and Interface Science*, **2016**, 475, 46-56	9.3	99
728	Highly selective amperometric sensor for the trace level detection of hydrazine at bismuth nanoparticles decorated graphene nanosheets modified electrode. *Talanta*, **2014**, 124, 43-51	6.2	97
727	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. *Enzyme and Microbial Technology*, **2015**, 78, 40-5	3.8	96
726	3D graphene oxide-cobalt oxide polyhedrons for highly sensitive non-enzymatic electrochemical determination of hydrogen peroxide. *Sensors and Actuators B: Chemical*, **2017**, 253, 773-783	8.5	95
725	Fabrication of potato-like silver molybdate microstructures for photocatalytic degradation of chronic toxicity ciprofloxacin and highly selective electrochemical detection of HO. *Scientific Reports*, **2016**, 6, 34149	4.9	90
724	Heteroatom-enriched and renewable banana-stem-derived porous carbon for the electrochemical determination of nitrite in various water samples. *Scientific Reports*, **2014**, 4, 4679	4.9	88
723	Zinc oxide/redox mediator composite films-based sensor for electrochemical detection of important biomolecules. *Analytical Biochemistry*, **2008**, 380, 174-83	3.1	87
722	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. *Scientific Reports*, **2017**, 7, 11910	4.9	86
721	Modern Approach to the Synthesis of Ni(OH)2 Decorated Sulfur Doped Carbon Nanoparticles for the Nonenzymatic Glucose Sensor. *ACS Applied Materials & Interfaces*, **2016**, 8, 22545-53	9.5	86
720	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. *Electrochimica Acta*, **2015**, 176, 804-810	6.7	84
719	Determination of dopamine using a glassy carbon electrode modified with a graphene and carbon nanotube hybrid decorated with molybdenum disulfide flowers. *Mikrochimica Acta*, **2016**, 183, 2267-2275	5.8	83

718	Construction of novel Pd/CeO/g-CN nanocomposites as efficient visible-light photocatalysts for hexavalent chromium detoxification. *Journal of Colloid and Interface Science*, **2017**, 504, 514-526	9.3	82
717	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. *Materials Science and Engineering C*, **2015**, 56, 374-9	8.3	82
716	Rapid microwave assisted synthesis of graphene nanosheets/polyethyleneimine/gold nanoparticle composite and its application to the selective electrochemical determination of dopamine. *Talanta*, **2014**, 120, 148-57	6.2	82
715	A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. *Electrochimica Acta*, **2014**, 139, 157-164	6.7	82
714	A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. *Scientific Reports*, **2017**, 7, 41214	4.9	79
713	Innovative Strategy Based on a Novel Carbon-Black-Cyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. *Analytical Chemistry*, **2018**, 90, 6283-6291	7.8	79
712	Manganese doped Co3O4 mesoporous nanoneedle array for long cycle-stable supercapacitors. *Applied Surface Science*, **2019**, 469, 941-950	6.7	79
711	Nanocomposites composed of layered molybdenum disulfide and graphene for highly sensitive amperometric determination of methyl parathion. *Mikrochimica Acta*, **2017**, 184, 725-733	5.8	76
710	Hierarchical CdInS microspheres wrapped by mesoporous g-CN ultrathin nanosheets with enhanced visible light driven photocatalytic reduction activity. *Journal of Hazardous Materials*, **2016**, 320, 529-538	12.8	76
709	Electrochemical detection of 4-nitrophenol based on biomass derived activated carbons. *Analytical Methods*, **2014**, 6, 5274	3.2	74
708	Ultrathin Sulfur-Doped Graphitic Carbon Nitride Nanosheets As Metal-Free Catalyst for Electrochemical Sensing and Catalytic Removal of 4-Nitrophenol. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16021-16031	8.3	74
707	Electrochemical preparation of activated graphene oxide for the simultaneous determination of hydroquinone and catechol. *Journal of Colloid and Interface Science*, **2017**, 500, 54-62	9.3	73
706	Highly selective dopamine electrochemical sensor based on electrochemically pretreated graphite and nafion composite modified screen printed carbon electrode. *Journal of Colloid and Interface Science*, **2013**, 411, 182-6	9.3	73
705	Electrocatalysis and simultaneous determination of catechol and quinol by poly(malachite green) coated multiwalled carbon nanotube film. *Analytical Biochemistry*, **2011**, 411, 71-9	3.1	73
704	Highly stable and active palladium nanoparticles supported on porous carbon for practical catalytic applications. *Journal of Materials Chemistry A*, **2014**, 2, 16015-16022	13	72
703	Lignocellulosic biomass-derived, graphene sheet-like porous activated carbon for electrochemical supercapacitor and catechin sensing. *RSC Advances*, **2017**, 7, 45668-45675	3.7	68
702	Electrochemically synthesized PtMnO2 composite particles for simultaneous determination of catechol and hydroquinone. *Sensors and Actuators B: Chemical*, **2012**, 169, 235-242	8.5	68
701	Simultaneous determination of catechol and hydroquinone using a Pt/ZrO2-RGO/GCE composite modified glassy carbon electrode. *Electrochimica Acta*, **2014**, 125, 503-509	6.7	67

700	Highly sensitive amperometric sensor for carbamazepine determination based on electrochemically reduced graphene oxide–single-walled carbon nanotube composite film. *Sensors and Actuators B: Chemical*, **2012**, 173, 274-280	8.5	67
699	Synthesis and characterization of polypyrrole decorated graphene/β-cyclodextrin composite for low level electrochemical detection of mercury (II) in water. *Sensors and Actuators B: Chemical*, **2017**, 243, 888-894	8.5	66
698	Amperometric determination of H2O2 at nano-TiO2/DNA/thionin nanocomposite modified electrode. *Colloids and Surfaces B: Biointerfaces*, **2008**, 66, 266-73	6	66
697	Environmentally friendly synthesis of CeO nanoparticles for the catalytic oxidation of benzyl alcohol to benzaldehyde and selective detection of nitrite. *Scientific Reports*, **2017**, 7, 46372	4.9	62
696	Flower-Like Nickel–Cobalt Oxide Decorated Dopamine-Derived Carbon Nanocomposite for High Performance Supercapacitor Applications. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5013-5020	8.3	62
695	Simplistic synthesis of ultrafine CoMnO nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. *Journal of Hazardous Materials*, **2019**, 361, 123-133	12.8	62
694	Palladium nanoparticles decorated on activated fullerene modified screen printed carbon electrode for enhanced electrochemical sensing of dopamine. *Journal of Colloid and Interface Science*, **2015**, 448, 251-6	9.3	62
693	Preparation and characterization of gold nanoparticles decorated on graphene oxide@polydopamine composite: Application for sensitive and low potential detection of catechol. *Sensors and Actuators B: Chemical*, **2016**, 233, 298-306	8.5	62
692	Electrochemical properties of the acetaminophen on the screen printed carbon electrode towards the high performance practical sensor applications. *Journal of Colloid and Interface Science*, **2016**, 483, 109-117	9.3	61
691	Graphene oxide encapsulated 3D porous chalcopyrite (CuFeS2) nanocomposite as an emerging electrocatalyst for agro-hazardous (methyl paraoxon) detection in vegetables. *Composites Part B: Engineering*, **2019**, 160, 268-276	10	61
690	Nanomolar electrochemical detection of caffeic acid in fortified wine samples based on gold/palladium nanoparticles decorated graphene flakes. *Journal of Colloid and Interface Science*, **2017**, 501, 77-85	9.3	59
689	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. *Composites Part B: Engineering*, **2019**, 162, 33-42	10	59
688	Functional porous carbon-ZnO nanocomposites for high-performance biosensors and energy storage applications. *Physical Chemistry Chemical Physics*, **2016**, 18, 16466-75	3.6	58
687	Silver Nanograins Incorporated PEDOT Modified Electrode for Electrocatalytic Sensing of Hydrogen Peroxide. *Electroanalysis*, **2009**, 21, 1419-1423	3	57
686	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. *RSC Advances*, **2015**, 5, 31139-31146	3.7	56
685	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. *Analytica Chimica Acta*, **2018**, 1030, 52-60	6.6	56
684	A review of the advanced developments of electrochemical sensors for the detection of toxic and bioactive molecules. *Inorganic Chemistry Frontiers*, **2019**, 6, 3418-3439	6.8	55
683	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. *Inorganic Chemistry Frontiers*, **2018**, 5, 705-718	6.8	55

682	Microwave-assisted synthesis of Bi2WO6 flowers decorated graphene nanoribbon composite for electrocatalytic sensing of hazardous dihydroxybenzene isomers. *Composites Part B: Engineering*, **2018**, 152, 220-230	10	55
681	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. *Journal of Colloid and Interface Science*, **2017**, 487, 370-377	9.3	55
680	Biosynthesis of silver nanoparticles by using Camellia japonica leaf extract for the electrocatalytic reduction of nitrobenzene and photocatalytic degradation of Eosin-Y. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 170, 164-172	6.7	54
679	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. *Journal of Colloid and Interface Science*, **2018**, 524, 417-426	9.3	54
678	A novel amperometric nitrite sensor based on screen printed carbon electrode modified with graphite/β-cyclodextrin composite. *Journal of Electroanalytical Chemistry*, **2016**, 760, 97-104	4.1	54
677	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. *RSC Advances*, **2017**, 7, 25702-25709	3.7	53
676	Determination of 4-nitrophenol in water by use of a screen-printed carbon electrode modified with chitosan-crafted ZnO nanoneedles. *Journal of Colloid and Interface Science*, **2017**, 499, 83-92	9.3	53
675	A Single-Atom Nanozyme for Wound Disinfection Applications. *Angewandte Chemie*, **2019**, 131, 4965-4970	3.6	53
674	A novel yet simple strategy to fabricate visible light responsive C,N-TiO2/g-C3N4 heterostructures with significantly enhanced photocatalytic hydrogen generation. *RSC Advances*, **2015**, 5, 101214-101220	3.7	53
673	Direct electrochemistry of cytochrome c immobilized on a graphene oxide–carbon nanotube composite for picomolar detection of hydrogen peroxide. *RSC Advances*, **2014**, 4, 28229-28237	3.7	53
672	Screen-printed electrode modified with a composite prepared from graphene oxide nanosheets and Mn3O4 microcubes for ultrasensitive determination of nitrite. *Mikrochimica Acta*, **2017**, 184, 3625-3634	5.8	52
671	A voltammetric determination of caffeic acid in red wines based on the nitrogen doped carbon modified glassy carbon electrode. *Scientific Reports*, **2017**, 7, 45924	4.9	51
670	Three-Dimensional Fibrous Network of Na MnO for Aqueous Sodium-Ion Hybrid Supercapacitors. *Chemistry - A European Journal*, **2017**, 23, 2379-2386	4.8	51
669	Green synthesis of reduced graphene oxide supported TiO2/Co3O4 nanocomposite for photocatalytic degradation of methylene blue and crystal violet. *Ceramics International*, **2019**, 45, 12926-12933	3.1	51
668	An electrochemical synthesis strategy for composite based ZnO microspheres–Au nanoparticles on reduced graphene oxide for the sensitive detection of hydrazine in water samples. *RSC Advances*, **2015**, 5, 54379-54386	3.7	51
667	3D Flower-Like Gadolinium Molybdate Catalyst for Efficient Detection and Degradation of Organophosphate Pesticide (Fenitrothion). *ACS Applied Materials & Interfaces*, **2018**, 10, 15652-15664	8.5	51
666	Low-Temperature Chemical Synthesis of CoWO4 Nanospheres for Sensitive Nonenzymatic Glucose Sensor. *Journal of Physical Chemistry C*, **2016**, 120, 17024-17028	3.8	51
665	Preparation of highly stable fullerene C60 decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. *Journal of Colloid and Interface Science*, **2016**, 462, 375-81	9.3	50

664	One-Pot Green Synthesis of Graphene Nanosheets Encapsulated Gold Nanoparticles for Sensitive and Selective Detection of Dopamine. *Scientific Reports*, **2017**, 7, 41213	4.9	50
663	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. *Scientific Reports*, **2017**, 7, 14182	4.9	50
662	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. *Journal of Solid State Electrochemistry*, **2014**, 18, 1847-1854	2.6	50
661	Carboxyl-functionalized graphene oxide-modified electrode for the electrochemical determination of nonsteroidal anti-inflammatory drug diclofenac. *Ionics*, **2015**, 21, 231-238	2.7	49
660	Hydrothermal synthesis of NiWO4 crystals for high performance non-enzymatic glucose biosensors. *Scientific Reports*, **2016**, 6, 24128	4.9	49
659	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. *Colloids and Surfaces B: Biointerfaces*, **2014**, 115, 295-301	6	49
658	A simple strategy for the immobilization of catalase on multi-walled carbon nanotube/poly (L-lysine) biocomposite for the detection of H2O2 and iodate. *Biosensors and Bioelectronics*, **2014**, 61, 639-47	11.8	49
657	A high performance quasi-solid-state supercapacitor based on CuMnO2 nanoparticles. *Journal of Power Sources*, **2017**, 355, 53-61	8.9	48
656	Bimetallic vanadium cobalt diselenide nanosheets with additional active sites for excellent asymmetric pseudocapacitive performance: comparing the electrochemical performances with M□CoSe2 (M = Zn, Mn, and Cu). *Journal of Materials Chemistry A*, **2019**, 7, 12565-12581	13	48
655	Determination of oxidative stress biomarker 3-nitro-l-tyrosine using CdWO4 nanodots decorated reduced graphene oxide. *Sensors and Actuators B: Chemical*, **2018**, 272, 274-281	8.5	48
654	Porous carbon-modified electrodes as highly selective and sensitive sensors for detection of dopamine. *Analyst, The*, **2014**, 139, 4994-5000	5	47
653	Sonochemical synthesis of molybdenum oxide (MoO) microspheres anchored graphitic carbon nitride (g-CN) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. *Ultrasonics Sonochemistry*, **2019**, 50, 96-104	8.9	47
652	Preparation of □cyclodextrin entrapped graphite composite for sensitive detection of dopamine. *Carbohydrate Polymers*, **2016**, 135, 267-73	10.3	46
651	Biomass-derived functional porous carbons as novel electrode material for the practical detection of biomolecules in human serum and snail hemolymph. *Scientific Reports*, **2015**, 5, 10141	4.9	46
650	In situ synthesis of AgPO/CNZ-scheme heterojunctions with enhanced visible-light-responsive photocatalytic performance for antibiotics removal. *Science of the Total Environment*, **2021**, 754, 141926	10.2	46
649	Facile Solvothermal Preparation of MnCuO Microspheres: Excellent Electrocatalyst for Real-Time Detection of HO Released from Live Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 43543-43551	8.5	46
648	Green reduction of reduced graphene oxide with nickel tetraphenyl porphyrin nanocomposite modified electrode for enhanced electrochemical determination of environmentally pollutant nitrobenzene. *Journal of Colloid and Interface Science*, **2017**, 497, 207-216	9.3	45
647	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. *Renewable Energy*, **2015**, 74, 867-874	8.1	45

646	Two-dimensional metal chalcogenides analogous NiSe nanosheets and its efficient electrocatalytic performance towards glucose sensing. *Journal of Colloid and Interface Science*, **2017**, 507, 378-385	9.3	45
645	Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. *Enzyme and Microbial Technology*, **2014**, 66, 60-6	3.8	45
644	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. *RSC Advances*, **2015**, 5, 77651-77657	3.7	44
643	Construction of carbon bridged TiO2/CdS tandem Z-scheme heterojunctions toward efficient photocatalytic antibiotic degradation and Cr (VI) reduction. *Journal of Alloys and Compounds*, **2020**, 824, 153915	5.7	44
642	Hierarchically structured CuFe2O4 ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. *Inorganic Chemistry Frontiers*, **2018**, 5, 944-950	6.8	44
641	Design of novel 3D flower-like neodymium molybdate: An efficient and challenging catalyst for sensing and destroying pulmonary toxicity antibiotic drug nitrofurantoin. *Chemical Engineering Journal*, **2018**, 346, 11-23	14.7	44
640	Amperometric detection of nitrite in water samples by use of electrodes consisting of palladium-nanoparticle-functionalized multi-walled carbon nanotubes. *Journal of Colloid and Interface Science*, **2016**, 478, 413-20	9.3	44
639	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. *RSC Advances*, **2017**, 7, 33043-33051	3.7	44
638	Eco-friendly synthesis of Ag-NPs using Cerasus serrulata plant extract Its catalytic, electrochemical reduction of 4-NPh and antibacterial activity. *Journal of Industrial and Engineering Chemistry*, **2016**, 37, 330-339	6.3	44
637	Electrochemical co-preparation of cobalt sulfide/reduced graphene oxide composite for electrocatalytic activity and determination of HO in biological samples. *Journal of Colloid and Interface Science*, **2018**, 509, 153-162	9.3	43
636	Electrochemical synthesis of AuMnO2 on electrophoretically prepared graphene nanocomposite for high performance supercapacitor and biosensor applications. *Journal of Materials Chemistry A*, **2016**, 4, 3304-3315	13	43
635	Direct electrochemistry of glucose oxidase immobilized on ZrO2 nanoparticles-decorated reduced graphene oxide sheets for a glucose biosensor. *RSC Advances*, **2014**, 4, 30358-30367	3.7	43
634	Iron nanoparticles decorated graphene-multiwalled carbon nanotubes nanocomposite-modified glassy carbon electrode for the sensitive determination of nitrite. *Journal of Solid State Electrochemistry*, **2014**, 18, 1015-1023	2.6	43
633	Praseodymium Vanadate-Decorated Sulfur-Doped Carbon Nitride Hybrid Nanocomposite: The Role of a Synergistic Electrocatalyst for the Detection of Metronidazole. *ACS Applied Materials & Interfaces*, **2019**, 11, 7893-7905	9.5	42
632	An electrocatalytic oxidation and voltammetric method using a chemically reduced graphene oxide film for the determination of caffeic acid. *Journal of Colloid and Interface Science*, **2014**, 423, 33-40	9.3	42
631	Sonochemical driven simple preparation of nitrogen-doped carbon quantum dots/SnO2 nanocomposite: A novel electrocatalyst for sensitive voltammetric determination of riboflavin. *Sensors and Actuators B: Chemical*, **2019**, 281, 602-612	8.5	42
630	Robust and selective electrochemical detection of antibiotic residues: The case of integrated lutetium vanadate/graphene sheets architectures. *Journal of Hazardous Materials*, **2020**, 384, 121304	12.8	42
629	Determination of Neurotransmitter in Biological and Drug Samples Using Gold Nanorods Decoratedf-MWCNTs Modified Electrode. *Journal of the Electrochemical Society*, **2018**, 165, B370-B377	3.9	41

628	Edge-carboxylated graphene anchoring magnetite-hydroxyapatite nanocomposite for an efficient 4-nitrophenol sensor. *RSC Advances*, **2015**, 5, 13392-13401	3.7	41
627	Functional porous carbon/nickel oxide nanocomposites as binder-free electrodes for supercapacitors. *Chemistry - A European Journal*, **2015**, 21, 8200-6	4.8	40
626	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. *Scientific Reports*, **2016**, 6, 19949	4.9	40
625	Enhanced electrocatalytic oxidation of isoniazid at electrochemically modified rhodium electrode for biological and pharmaceutical analysis. *Colloids and Surfaces B: Biointerfaces*, **2014**, 121, 444-50	6	40
624	A highly sensitive and selective electrochemical determination of non-steroidal prostate anti-cancer drug nilutamide based on f-MWCNT in tablet and human blood serum sample. *Journal of Colloid and Interface Science*, **2017**, 487, 289-296	9.3	40
623	Rational Design for the Synthesis of Europium Vanadate-Encapsulated Graphene Oxide Nanocomposite: An Excellent and Efficient Catalyst for the Electrochemical Detection of Clioquinol. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4136-4146	8.3	40
622	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. *Sensors and Actuators B: Chemical*, **2018**, 259, 339-346	8.5	40
621	Graphene Oxide Nanoribbons Film Modified Screen-Printed Carbon Electrode for Real-Time Detection of Methyl Parathion in Food Samples. *Journal of the Electrochemical Society*, **2017**, 164, B403-B408	3.9	39
620	Green Synthesis of Silver Nanoparticles Using Ionic Liquid and Application for the Detection of Dissolved Oxygen. *Electroanalysis*, **2010**, 22, 680-687	3	39
619	Preparation of chitosan grafted graphite composite for sensitive detection of dopamine in biological samples. *Carbohydrate Polymers*, **2016**, 151, 401-407	10.3	39
618	Selective Detection of Uric Acid in the Presence of Ascorbic Acid and Dopamine Using Polymerized Luminol Film Modified Glassy Carbon Electrode. *Electroanalysis*, **2009**, 21, 2281-2286	3	38
617	Sustainable porous activated carbon from Polyalthia longifolia seeds as electrode material for supercapacitor application. *Journal of Electroanalytical Chemistry*, **2019**, 849, 113382	4.1	37
616	Entrapment of bimetallic CoFeSe nanosphere on functionalized carbon nanofiber for selective and sensitive electrochemical detection of caffeic acid in wine samples. *Analytica Chimica Acta*, **2018**, 1006, 22-32	6.6	37
615	A Facile Electrochemical Preparation of Reduced Graphene Oxide@Polydopamine Composite: A Novel Electrochemical Sensing Platform for Amperometric Detection of Chlorpromazine. *Scientific Reports*, **2016**, 6, 33599	4.9	37
614	Fabrication of a novel gold nanospheres/activated carbon nanocomposite for enhanced electrocatalytic activity toward the detection of toxic hydrazine in various water samples. *Sensors and Actuators B: Chemical*, **2014**, 204, 382-387	8.5	37
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612	Reduced graphene oxide supported raspberry-like SrWO4 for sensitive detection of catechol in green tea and drinking water samples. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 89, 215-223	5.3	37
611	In Situ Synthesis, Characterization, and Catalytic Performance of Polypyrrole Polymer-Incorporated AgMoO Nanocomposite for Detection and Degradation of Environmental Pollutants and Pharmaceutical Drugs. *ACS Applied Materials & Interfaces*, **2019**, 11, 38321-38335	9.5	36

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