Serge Cosnier

List of Publications by Year
in descending order

408 papers	20,902 citations	9264 74 h-index	19190 118 g-index
423 all docs	423 docs citations	423 times ranked	15493 citing authors

#	Article	IF	Citations
1	Nanomaterials for biosensing applications: a review. Frontiers in Chemistry, 2014, 2, 63.	3.6	794
2	Biomolecule immobilization on electrode surfaces by entrapment or attachment to electrochemically polymerized films. A review. Biosensors and Bioelectronics, 1999, 14, 443-456.	10.1	727
3	Mediatorless high-power glucose biofuel cells based on compressed carbon nanotube-enzyme electrodes. Nature Communications, 2011, 2, 370.	12.8	522
4	A Glucose BioFuel Cell Implanted in Rats. PLoS ONE, 2010, 5, e10476.	2.5	346
5	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. Chemical Reviews, 2019, 119, 9509-9558.	47.7	321
6	Subnanomolar Cyanide Detection at Polyphenol Oxidase/Clay Biosensors. Analytical Chemistry, 2004, 76, 178-183.	6.5	316
7	Single Glucose Biofuel Cells Implanted in Rats Power Electronic Devices. Scientific Reports, 2013, 3, 1516.	3.3	301
8	Photoelectrochemical Immunosensor for Label-Free Detection and Quantification of Anti-cholera Toxin Antibody. Journal of the American Chemical Society, 2006, 128, 9693-9698.	13.7	274
9	Towards glucose biofuel cells implanted in human body for powering artificial organs: Review. Electrochemistry Communications, 2014, 38, 19-23.	4.7	262
10	Biosensors based on electropolymerized films: new trends. Analytical and Bioanalytical Chemistry, 2003, 377, 507-520.	3.7	251
11	Carbon nanotube/enzyme biofuel cells. Electrochimica Acta, 2012, 82, 179-190.	5.2	212
12	Layered Double Hydroxides:Â An Attractive Material for Electrochemical Biosensor Design. Analytical Chemistry, 2003, 75, 3872-3879.	6.5	198
13	Recent advances on enzymatic glucose/oxygen and hydrogen/oxygen biofuel cells: Achievements and limitations. Journal of Power Sources, 2016, 325, 252-263.	7.8	195
14	Noncovalently Functionalized Monolayer Graphene for Sensitivity Enhancement of Surface Plasmon Resonance Immunosensors. Journal of the American Chemical Society, 2015, 137, 2800-2803.	13.7	190
15	Dumbbell-shaped carbon quantum dots/AuNCs nanohybrid as an efficient ratiometric fluorescent probe for sensing cadmium (II) ions and l-ascorbic acid. Carbon, 2016, 96, 1034-1042.	10.3	180
16	High power enzymatic biofuel cell based on naphthoquinone-mediated oxidation of glucose by glucose oxidase in a carbon nanotube 3D matrix. Physical Chemistry Chemical Physics, 2013, 15, 4892.	2.8	154
17	A glucose biosensor based on enzyme entrapment within polypyrrole films electrodeposited on mesoporous titanium dioxide. Journal of Electroanalytical Chemistry, 1999, 469, 176-181.	3.8	147
18	Development of amperometric biosensor for glucose based on a novel attractive enzyme immobilization matrix: Calcium carbonate nanoparticles. Biosensors and Bioelectronics, 2007, 22, 1612-1617.	10.1	147

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19	A novel biosensor elaboration by electropolymerization of an adsorbed amphiphilic pyrrole-tyrosinase enzyme layer. Journal of Electroanalytical Chemistry, 1992, 328, 361-366.	3.8	146
20	Electrosynthesized polymers for biosensing. Chemical Society Reviews, 2011, 40, 2146.	38.1	146
21	Zirconium-Based Porphyrinic Metalâ€“Organic Framework (PCN-222): Enhanced Photoelectrochemical Response and Its Application for Label-Free Phosphoprotein Detection. Analytical Chemistry, 2016, 88, 11207-11212.	6.5	146
22	Affinity Biosensors Based on Electropolymerized Films. Electroanalysis, 2005, 17, 1701-1715.	2.9	145
23	Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. Cellular and Molecular Life Sciences, 2015, 72, 941-952.	5.4	143
24	Urea Biosensors Based on Immobilization of Urease into Two Oppositely Charged Clays (Laponite and) Tj ETQq0 0 0 rgBT /Overlock 10 T	6.5	132
25	Stretchable and Flexible Buckypaperâ€Based Lactate Biofuel Cell for Wearable Electronics. Advanced Functional Materials, 2019, 29, 1905785.	14.9	132
26	A new strategy for the construction of a tyrosinase-based amperometric phenol and o-diphenol sensor. Bioelectrochemistry, 1993, 31, 147-160.	1.0	129
27	Enzymatic biosensors based on SWCNT-conducting polymer electrodes. Analyst, The, 2011, 136, 1279.	3.5	126
28	Direct electrochemistry and electrocatalysis of hemoglobin entrapped in composite matrix based on chitosan and CaCO3 nanoparticles. Electrochemistry Communications, 2007, 9, 529-534.	4.7	121
29	Recent advances in DNA sensors. Analyst, The, 2008, 133, 984.	3.5	121
30	A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides. Analytica Chimica Acta, 1995, 311, 255-263.	5.4	119
31	Electrocatalytic Oxidation of Glucose by Rhodium Porphyrin-Functionalized MWCNT Electrodes: Application to a Fully Molecular Catalyst-Based Glucose/O₂ Fuel Cell. Journal of the American Chemical Society, 2012, 134, 14078-14085.	13.7	119
32	Buckypaper bioelectrodes: emerging materials for implantable and wearable biofuel cells. Energy and Environmental Science, 2018, 11, 1670-1687.	30.8	119
33	Supercapacitor/biofuel cell hybrids based on wired enzymes on carbon nanotube matrices: autonomous reloading after high power pulses in neutral buffered glucose solutions. Energy and Environmental Science, 2014, 7, 1884-1888.	30.8	117
34	A Biotinylated Conducting Polypyrrole for the Spatially Controlled Construction of an Amperometric Biosensor. Analytical Chemistry, 1999, 71, 3692-3697.	6.5	116
35	Amperometric phenol biosensor based on laponite clayâ€“chitosan nanocomposite matrix. Biosensors and Bioelectronics, 2007, 22, 816-821.	10.1	115
36	Electrochemical coating of a platinum electrode by a poly(pyrrole) film containing the fac-Re(2,2â€²-bipyridine)(CO)3Cl system application to electrocatalytic reduction of CO2. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 207, 315-321.	0.1	112

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37	Electrogeneration of a Poly(pyrrole)-NTA Chelator Film for a Reversible Oriented Immobilization of Histidine-Tagged Proteins. Journal of the American Chemical Society, 2005, 127, 5752-5753.	13.7	112
38	Amperometric Detection of Nitrate via a Nitrate Reductase Immobilized and Electrically Wired at the Electrode Surface. Analytical Chemistry, 1994, 66, 3198-3201.	6.5	110
39	Oxidative electropolymerization of polypyridinyl complexes of ruthenium(II)-containing pyrrole groups. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 193, 193-204.	0.1	104
40	Impedimetric immunosensor using avidinâ€“biotin for antibody immobilization. Bioelectrochemistry, 2002, 56, 131-133.	4.6	100
41	One-pot synthesis of nitrogen-rich carbon dots decorated graphene oxide as metal-free electrocatalyst for oxygen reduction reaction. Carbon, 2016, 109, 402-410.	10.3	96
42	Simultaneous electrochemical determination of dopamine and paracetamol based on thin pyrolytic carbon films. Analytical Methods, 2012, 4, 2048.	2.7	95
43	Synthesis and Characterization of a Pyrroleâ^'Alginate Conjugate and Its Application in a Biosensor Construction. Biomacromolecules, 2005, 6, 3313-3318.	5.4	94
44	Hybrid Material Based on Chitosan and Layered Double Hydroxides:Â Characterization and Application to the Design of Amperometric Phenol Biosensor. Biomacromolecules, 2007, 8, 971-975.	5.4	94
45	An Electrochemical Method for Making Enzyme Microsensors. Application to the Detection of Dopamine and Glutamate. Analytical Chemistry, 1997, 69, 968-971.	6.5	92
46	Optical Fiber Immunosensor Based on a Poly(pyrroleâ^'benzophenone) Film for the Detection of Antibodies to Viral Antigen. Analytical Chemistry, 2005, 77, 1771-1779.	6.5	92
47	Protease Amperometric Sensor. Analytical Chemistry, 2006, 78, 6327-6331.	6.5	92
48	Ferrocyanide-Ferricyanide Redox Couple Induced Electrochemiluminescence Amplification of Carbon Dots for Ultrasensitive Sensing of Glutathione. Analytical Chemistry, 2015, 87, 11150-11156.	6.5	91
49	Functionalised single wall carbon nanotubes/polypyrrole composites for the preparation of amperometric glucose biosensors. Journal of Materials Chemistry, 2004, 14, 807-810.	6.7	89
50	Direct Electron Transfer between a Site-Specific Pyrene-Modified Laccase and Carbon Nanotube/Gold Nanoparticle Supramolecular Assemblies for Bioelectrocatalytic Dioxygen Reduction. ACS Catalysis, 2016, 6, 1894-1900.	11.2	89
51	Recent Advances in Biological Sensors Based on Electrogenerated Polymers: A Review. Analytical Letters, 2007, 40, 1260-1279.	1.8	88
52	Adamantane/Î²-cyclodextrin affinity biosensors based on single-walled carbon nanotubes. Biosensors and Bioelectronics, 2009, 24, 1128-1134.	10.1	88
53	Label-Free Femtomolar Detection of Target DNA by Impedimetric DNA Sensor Based on Poly(pyrrole-nitrilotriacetic acid) Film. Analytical Chemistry, 2010, 82, 1066-1072.	6.5	87
54	Fully Oriented Bilirubin Oxidase on Porphyrinâ€Functionalized Carbon Nanotube Electrodes for Electrocatalytic Oxygen Reduction. Chemistry - A European Journal, 2015, 21, 16868-16873.	3.3	87

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55	Carbonâ€Nanotubeâ€Supported Bioâ€Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie - International Edition, 2017, 56, 1845-1849.	13.8	87
56	Electropolymerization of amphiphilic monomers for designing amperometric biosensors. Electroanalysis, 1997, 9, 894-902.	2.9	86
57	A miniaturized urea sensor based on the integration of both ammonium based urea enzyme field effect transistor and a reference field effect transistor in a single chip. Talanta, 1999, 50, 219-226.	5.5	86
58	Laccase immobilization in redox active layered double hydroxides: A reagentless amperometric biosensor. Biosensors and Bioelectronics, 2007, 22, 1733-1738.	10.1	86
59	Electrocatalytic reduction of CO2 on electrodes modified by fac-Re(2,2'-bipyridine)(CO)3Cl complexes bonded to polypyrrole films. Journal of Molecular Catalysis, 1988, 45, 381-391.	1.2	85
60	Electrogeneration of Biotinylated Functionalized Polypyrroles for the Simple Immobilization of Enzymes. Electroanalysis, 1998, 10, 808-813.	2.9	85
61	Specific Determination of As(V) by an Acid Phosphataseâ˜Polyphenol Oxidase Biosensor. Analytical Chemistry, 2006, 78, 4985-4989.	6.5	85
62	Sensitive and selective xanthine amperometric sensors based on calcium carbonate nanoparticles. Sensors and Actuators B: Chemical, 2009, 136, 510-515.	7.8	85
63	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. Biosensors and Bioelectronics, 2007, 23, 549-555.	10.1	84
64	A High Power Buckypaper Biofuel Cell: Exploiting 1,10-Phenanthroline-5,6-dione with FAD-Dependent Dehydrogenase for Catalytically-Powerful Glucose Oxidation. ACS Catalysis, 2017, 7, 4408-4416.	11.2	83
65	Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives. Analytica Chimica Acta, 1995, 311, 23-30.	5.4	81
66	DMF-exfoliated graphene for electrochemical NADH detection. Physical Chemistry Chemical Physics, 2011, 13, 7747.	2.8	81
67	Efficient direct oxygen reduction by laccases attached and oriented on pyrene-functionalized polypyrrole/carbon nanotube electrodes. Chemical Communications, 2013, 49, 9281.	4.1	81
68	Biosensors Based on Immobilization of Biomolecules by Electrogenerated Polymer Films. Applied Biochemistry and Biotechnology, 2000, 89, 127-138.	2.9	80
69	Highly sensitive nitrite biosensor based on the electrical wiring of nitrite reductase by [ZnCr-AQS] LDH. Electrochemistry Communications, 2007, 9, 2240-2245.	4.7	80
70	Construction of Amperometric Immunosensors Based on the Electrogeneration of a Permeable Biotinylated Polypyrrole Film. Analytical Chemistry, 2004, 76, 6808-6813.	6.5	79
71	HRP/[Znâ€“Crâ€“ABTS] redox clay-based biosensor: design and optimization for cyanide detection. Biosensors and Bioelectronics, 2004, 20, 390-396.	10.1	78
72	DNA-Mediated Nanoscale Metalâ€“Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. Analytical Chemistry, 2018, 90, 12284-12291.	6.5	78

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73	Supramolecular Immobilization of Laccase on Carbon Nanotube Electrodes Functionalized with (Methylpyrenylaminomethyl)anthraquinone for Direct Electron Reduction of Oxygen. Chemistry - A European Journal, 2013, 19, 9371-9375.	3.3	77
74	A membraneless air-breathing hydrogen biofuel cell based on direct wiring of thermostable enzymes on carbon nanotube electrodes. Chemical Communications, 2015, 51, 7447-7450.	4.1	77
75	Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol. Analytica Chimica Acta, 1996, 319, 145-151.	5.4	76
76	Recent Advances in Carbon Nanotube-Based Enzymatic Fuel Cells. Frontiers in Bioengineering and Biotechnology, 2014, 2, 45.	4.1	75
77	Freestanding HRPâ€“GOx redox buckypaper as an oxygen-reducing biocathode for biofuel cell applications. Energy and Environmental Science, 2015, 8, 2069-2074.	30.8	75
78	Gold electrode functionalized by electropolymerization of a cyano N-substituted pyrrole: application to an impedimetric immunosensor. Journal of Electroanalytical Chemistry, 2001, 501, 62-69.	3.8	74
79	Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film. Biosensors and Bioelectronics, 2013, 41, 90-95.	10.1	74
80	Alkylammonium and pyridinium group-containing polypyrroles, a new class of electronically conducting anion-exchange polymers. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 271, 69-81.	0.1	73
81	A Bienzyme Electrode (Alkaline Phosphataseâ˜Polyphenol Oxidase) for the Amperometric Determination of Phosphate. Analytical Chemistry, 1998, 70, 3952-3956.	6.5	73
82	Development of an â€œElectroptodeâ€•Immunosensor:Â Indium Tin Oxide-Coated Optical Fiber Tips Conjugated with an Electropolymerized Thin Film with Conjugated Cholera Toxin B Subunit. Analytical Chemistry, 2003, 75, 2633-2639.	6.5	73
83	Poly(pyrroleâ€“biotin): a new polymer for biomolecule grafting on electrode surfaces. Electrochimica Acta, 1999, 44, 1833-1836.	5.2	72
84	Mercuryâ€“enzyme inhibition assays with an amperometric sucrose biosensor based on a trienzymatic-clay matrix. Analytica Chimica Acta, 2005, 543, 143-149.	5.4	72
85	Impedimetric Immunosensor Based on a Polypyrroleâ˜Antibiotic Model Film for the Label-Free Picomolar Detection of Ciprofloxacin. Analytical Chemistry, 2009, 81, 8405-8409.	6.5	72
86	Beyond the hype surrounding biofuel cells: What's the future of enzymatic fuel cells?. Current Opinion in Electrochemistry, 2018, 12, 148-155.	4.8	71
87	Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes. Analytica Chimica Acta, 1998, 364, 165-172.	5.4	70
88	Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives. Analytica Chimica Acta, 1995, 317, 275-280.	5.4	69
89	Improvement of biosensor performances for nitrate determination using a new hydrophilic poly(pyrrole-viologen) film. Sensors and Actuators B: Chemical, 2004, 103, 397-402.	7.8	69
90	Polypyridinyl complexes of ruthenium(II) having 4,4'-dicarboxy ester-2,2'-bipyridine ligands attached covalently to polypyrrole films. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 285, 133-147.	0.1	68

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91	Electrochemical properties of [(C5Me5)RhIII(L)Cl]+ complexes (L = 2,2â€²-bipyridine or 1,10-phenanthroline) Tj ETQq1 1 0.784314 rgBT generation. Journal of Electroanalytical Chemistry, 1993, 352, 213-228.	3.8	68
92	New electropolymerizable amphiphilic viologens for the immobilization and electrical wiring of a nitrate reductase. Journal of Electroanalytical Chemistry, 1997, 433, 113-119.	3.8	68
93	Development of a PPO-poly(amphiphilic pyrrole) electrode for on site monitoring of phenol in aqueous effluents. Sensors and Actuators B: Chemical, 1999, 59, 134-139.	7.8	68
94	Trienzymatic biosensor for the determination of inorganic phosphate. Analytica Chimica Acta, 2001, 443, 1-8.	5.4	68
95	Calcium carbonate nanoparticles: A host matrix for the construction of highly sensitive amperometric phenol biosensor. Biosensors and Bioelectronics, 2007, 23, 648-654.	10.1	68
96	Solâ^'Gel Derived Composite Materials for the Construction of Oxidase/Peroxidase Mediatorless Biosensors. Chemistry of Materials, 1997, 9, 1348-1352.	6.7	66
97	Entrapment of enzyme within organic and inorganic materials for biosensor applications: Comparative study. Materials Science and Engineering C, 2006, 26, 442-447.	7.3	66
98	Oriented Immobilization of [NiFeSe] Hydrogenases on Covalently and Noncovalently Functionalized Carbon Nanotubes for H₂/Air Enzymatic Fuel Cells. ACS Catalysis, 2018, 8, 3957-3964.	11.2	65
99	Zirconiumâ€“metalloporphyrin frameworks as a three-in-one platform possessing oxygen nanocage, electron media, and bonding site for electrochemiluminescence protein kinase activity assay. Nanoscale, 2016, 8, 11649-11657.	5.6	64
100	Amperometric AlgalChlorella vulgaris Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. Electroanalysis, 2006, 18, 1041-1046.	2.9	63
101	Amperometric Immunosensor for the Detection of Anti-West Nile Virus IgG. Analytical Chemistry, 2007, 79, 8662-8668.	6.5	62
102	Label-free impedimetric immunosensor for sensitive detection of atrazine. Electrochimica Acta, 2010, 55, 6228-6232.	5.2	62
103	Carbon/poly {pyrrole-[(C5Me5)RhIII(bpy)Cl]+} modified electrodes; a molecularly-based material for hydrogen evolution (bpy = 2,2â€²-bipyridine). Journal of the Chemical Society Chemical Communications, 1989, , 1259-1261.	2.0	61
104	Currentâ€Free Deposition of Prussian Blue with Organic Polymers: Towards Improved Stability and Mass Production of the Advanced Hydrogen Peroxide Transducer. Electroanalysis, 2009, 21, 409-414.	2.9	61
105	Self-Assembled Films of Hemoglobin/Laponite/Chitosan:â€‰ Application for the Direct Electrochemistry and Catalysis to Hydrogen Peroxide. Biomacromolecules, 2007, 8, 3041-3046.	5.4	60
106	Hydrogen fuel electrode based on bioelectrocatalysis by the enzyme hydrogenase. Electrochemistry Communications, 2002, 4, 417-420.	4.7	59
107	Hydrogenase electrodes for fuel cells. Biochemical Society Transactions, 2005, 33, 73-75.	3.4	59
108	Development of a high analytical performance-xanthine biosensor based on layered double hydroxides modified-electrode and investigation of the inhibitory effect by allopurinol. Biosensors and Bioelectronics, 2009, 24, 1171-1176.	10.1	59

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109	Dawson-type polyoxometalate nanoclusters confined in a carbon nanotube matrix as efficient redox mediators for enzymatic glucose biofuel cell anodes and glucose biosensors. Biosensors and Bioelectronics, 2018, 109, 20-26.	10.1	59
110	A double-walled carbon nanotube-based glucose/H2O2 biofuel cell operating under physiological conditions. Electrochemistry Communications, 2013, 34, 105-108.	4.7	58
111	Diazonium Functionalisation of Carbon Nanotubes for Specific Orientation of Multicopper Oxidases: Controlling Electron Entry Points and Oxygen Diffusion to the Enzyme. Chemistry - A European Journal, 2016, 22, 10494-10500.	3.3	58
112	Controllable Display of Sequential Enzymes on Yeast Surface with Enhanced Biocatalytic Activity toward Efficient Enzymatic Biofuel Cells. Journal of the American Chemical Society, 2020, 142, 3222-3230.	13.7	58
113	Electrogenerated trisbipyridyl Ru(II)-/nitrilotriacetic-polypyrene copolymer for the easy fabrication of label-free photoelectrochemical immunosensor and aptasensor: Application to the determination of thrombin and anti-cholera toxinantibody. Biosensors and Bioelectronics, 2013, 42, 556-562.	10.1	57
114	One-year stability for a glucose/oxygen biofuel cell combined with pH reactivation of the laccase/carbon nanotube biocathode. Bioelectrochemistry, 2015, 106, 73-76.	4.6	57
115	Hosting Adamantane in the Substrate Pocket of Laccase: Direct Bioelectrocatalytic Reduction of O₂ on Functionalized Carbon Nanotubes. ACS Catalysis, 2016, 6, 4259-4264.	11.2	57
116	Mesoporous TiO2 films: New catalytic electrode fabricating amperometric biosensors based on oxidases. Electroanalysis, 1997, 9, 1387-1392.	2.9	56
117	Colloidal laponite nanoparticles: Extended application in direct electrochemistry of glucose oxidase and reagentless glucose biosensing. Biosensors and Bioelectronics, 2010, 25, 1427-1433.	10.1	56
118	Multiple functionalization of single-walled carbon nanotubes by dip coating. Chemical Communications, 2011, 47, 2450-2452.	4.1	56
119	Improvement of poly(amphiphilic pyrrole) enzyme electrodes via the incorporation of synthetic laponite-clay-nanoparticles1. Talanta, 1997, 44, 2209-2215.	5.5	55
120	Mediated electrochemical detection of catechol by tyrosinase-based poly(dicarbazole) electrodes. Journal of Proteomics, 2001, 50, 65-77.	2.4	55
121	An efficient poly(pyrroleâ€“viologen)-nitrite reductase biosensor for the mediated detection of nitrite. Electrochemistry Communications, 2004, 6, 404-408.	4.7	54
122	Tris(bispyreneâ€bipyridine)iron(II): A Supramolecular Bridge for the Biofunctionalization of Carbon Nanotubes via Ï€â€Stacking and Pyrene/Î²â€Cyclodextrin Hostâ€“Guest Interactions. Chemistry - A European Journal, 2011, 17, 10216-10221.	3.3	53
123	Design of a reduced-graphene-oxide composite electrode from an electropolymerizable graphene aqueous dispersion using a cyclodextrin-pyrrole monomer. Application to dopamine biosensing. Electrochimica Acta, 2015, 178, 108-112.	5.2	53
124	The Limiting Performance Characteristics in Bioelectrocatalysis of Hydrogenase Enzymes. Angewandte Chemie - International Edition, 2007, 46, 7244-7246.	13.8	52
125	A Pyrene-Substituted Tris(bipyridine)osmium(II) Complex as a Versatile Redox Probe for Characterizing and Functionalizing Carbon Nanotube- and Graphene-Based Electrodes. Langmuir, 2013, 29, 8736-8742.	3.5	52
126	Electrochemical nitrate biosensor based on poly(pyroleâ€“viologen) filmâ€“nitrate reductaseâ€“clay composite. Bioelectrochemistry, 2008, 74, 47-51.	4.6	51

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127	Enhancement of biosensor sensitivity in aqueous and organic solvents using a combination of poly(pyrrole-ammonium) and poly(pyrrole-lactobionamide) films as host matrices.. Journal of Electroanalytical Chemistry, 1998, 449, 165-171.	3.8	50
128	Reagentless biosensor for hydrogen peroxide based on self-assembled films of horseradish peroxidase/laponite/chitosan and the primary investigation on the inhibitory effect by sulfide. Biosensors and Bioelectronics, 2010, 26, 536-541.	10.1	50
129	A comparison of amperometric screen-printed, carbon electrodes and their application to the analysis of phenolic compounds present in beers. Talanta, 2001, 55, 1015-1027.	5.5	49
130	A composite poly azure Bâ€“clayâ€“enzyme sensor for the mediated electrochemical determination of phenols. Journal of Electroanalytical Chemistry, 2002, 537, 103-109.	3.8	49
131	A New Polyphenol Oxidase Biosensor Mediated by Azure B in Laponite Clay Matrix. Electroanalysis, 2003, 15, 1506-1512.	2.9	49
132	Poly(pyrrole-manganese porphyrin): A catalytic electrode material as a model system for olefin epoxidation and drug metabolism with molecular oxygen. Journal of Electroanalytical Chemistry, 1993, 352, 181-195.	3.8	48
133	Poly(pyrroleâ€“metallodeuteroporphyrin)electrodes: towards electrochemical biomimetic devices. Journal of Electroanalytical Chemistry, 2000, 488, 83-91.	3.8	48
134	Biotinylated alginate immobilization matrix in the construction of an amperometric biosensor: application for the determination of glucose. Analytica Chimica Acta, 2002, 453, 71-79.	5.4	48
135	Composite Carbon Paste Biosensor for Phenolic Derivatives Based on in Situ Electrogenerated Polypyrrole Binder. Analytical Chemistry, 2003, 75, 5422-5428.	6.5	48
136	A laponite clay-poly(pyrroleâ€“pyridinium) matrix for the fabrication of conductimetric microbiosensors. Analytica Chimica Acta, 1999, 401, 117-124.	5.4	47
137	Development of a highly sensitive, field operable biosensor for serological studies of Ebola virus in central Africa. Sensors and Actuators B: Chemical, 2007, 122, 578-586.	7.8	47
138	Polycrystalline bismuth oxide films for development of amperometric biosensor for phenolic compounds. Biosensors and Bioelectronics, 2009, 24, 3671-3676.	10.1	47
139	TiO2 nanocrystals electrochemiluminescence quenching by biological enlarged nanogold particles and its application for biosensing. Biosensors and Bioelectronics, 2013, 39, 342-345.	10.1	47
140	Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer. Chemical Science, 2014, 5, 2885-2888.	7.4	47
141	Wiring Laccase on Covalently Modified Graphene: Carbon Nanotube Assemblies for the Direct Bioâ€electrocatalytic Reduction of Oxygen. Chemistry - A European Journal, 2015, 21, 3198-3201.	3.3	47
142	Synergetic Effects of Combined Nanomaterials for Biosensing Applications. Sensors, 2017, 17, 1010.	3.8	47
143	Wearable Biosupercapacitor: Harvesting and Storing Energy from Sweat. Advanced Functional Materials, 2021, 31, 2102915.	14.9	47
144	Electrogeneration of a biotinylated poly(pyrroleâ€“ruthenium(ii)) film for the construction of photoelectrochemical immunosensor. Chemical Communications, 2004, , 2472-2473.	4.1	46

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145	Non-covalent biofunctionalization of single-walled carbon nanotubes via biotin attachment by Ï€-stacking interactions and pyrrole polymerization. Analyst, The, 2009, 134, 2412.	3.5	46
146	Three-dimensional carbon nanotubeâ€“polypyrroleâ€“[NiFe] hydrogenase electrodes for the efficient electrocatalytic oxidation of H2. International Journal of Hydrogen Energy, 2011, 36, 12096-12101.	7.1	46
147	Direct electron transfer between tyrosinase and multi-walled carbon nanotubes for bioelectrocatalytic oxygen reduction. Electrochemistry Communications, 2012, 20, 19-22.	4.7	46
148	Highly Sensitive Bisphenol-A Electrochemical Aptasensor Based on Poly(Pyrrole-Nitrilotriacetic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	6.5	46
149	Direct and electrically wired bioelectrocatalysis by hydrogenase from Thiocapsa roseopersicina. Bioelectrochemistry, 2002, 55, 169-171.	4.6	45
150	Bioelectrocatalytic hydrogen production by hydrogenase electrodes. International Journal of Hydrogen Energy, 2002, 27, 1501-1505.	7.1	45
151	A promising biosensing-platform based on bismuth oxide polycrystalline-modified electrode: Characterization and its application in development of amperometric glucose sensor. Bioelectrochemistry, 2010, 79, 218-222.	4.6	45
152	Non-covalent functionalization of carbon nanotubes with boronic acids for the wiring of glycosylated redox enzymes in oxygen-reducing biocathodes. Journal of Materials Chemistry B, 2014, 2, 2228-2232.	5.8	45
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