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	Trialkoxyheptazine-Based Glyconanoparticles for Fluorescence in Aqueous Solutions and on Surfaces via Controlled Binding in Space. ACS Macro Letters, 2022, 11, 135-139.	4.8	4
2	Organic Î²â€cyclodextrin Nanoparticle: An Efficient Building Block Between Functionalized Poly(pyrrole) Electrodes and Enzymes. Small, 2022, 18, e2105880.	10.0	4
3	Nitrobenzoic acid-functionalized gold nanoparticles: DET promoter of multicopper oxidases and electrocatalyst for NAD-dependent glucose dehydrogenase. Electrochimica Acta, 2022, 408, 139894.	5.2	7
4	A membraneless starch/O2 biofuel cell based on bacterial surface regulable displayed sequential enzymes of glucoamylase and glucose dehydrogenase. Biosensors and Bioelectronics, 2022, 207, 114197.	10.1	6
5	2-Methylimidazole-tuned â€œ4-Selfâ€•strategy based on benzimidazole-5-carboxylate for boosting oxygen reduction electrocatalysis. Applied Surface Science, 2022, 591, 153066.	6.1	2
6	Rational Design of a Highly Dispersed Feâ€“Nâ€“C Nanosheet with 1,10-Phenanthroline-2,9-Dicarboxylic Acid as a Preorganized Ligand: Boosted Electrochemiluminescence Detection of Tetracycline. Analytical Chemistry, 2022, 94, 1325-1332.	6.5	25
7	Hollow Bioelectrodes Based on Buckypaper Assembly. Application to the Electroenzymatic Reduction of O2. Nanomaterials, 2022, 12, 2399.	4.1	3
8	(Keynote) Bioelectrocatalytic Systems Based on Microcapsules, Glyconanoparticles and Microcavities. ECS Meeting Abstracts, 2022, MA2022-01, 2079-2079.	0.0	0
9	Recent advancements in the field of flexible/wearable enzyme fuel cells. Biosensors and Bioelectronics, 2022, 214, 114545.	10.1	17
10	Insights into carbon nanotube-assisted electro-oxidation of polycyclic aromatic hydrocarbons for mediated bioelectrocatalysis. Chemical Communications, 2021, 57, 8957-8960.	4.1	10
11	Freestanding biopellet electrodes based on carbon nanotubes and protein compression for direct and mediated bioelectrocatalysis. Electrochemistry Communications, 2021, 122, 106895.	4.7	10
12	Functionalizable Glyconanoparticles for a Versatile Redox Platform. Nanomaterials, 2021, 11, 1162.	4.1	5
13	Microcapsule-based biosensor containing catechol for the reagent-free inhibitive detection of benzoic acid by tyrosinase. Biosensors and Bioelectronics, 2021, 180, 113137.	10.1	8
14	Fe-MOGs-based enzyme mimetic and its mediated electrochemiluminescence for in situ detection of H2O2 released from Hela cells. Biosensors and Bioelectronics, 2021, 184, 113216.	10.1	30
15	Wearable Biosupercapacitor: Harvesting and Storing Energy from Sweat. Advanced Functional Materials, 2021, 31, 2102915.	14.9	47
16	Postmodulation of the Metalâ€“Organic Framework Precursor toward the Vacancy-Rich Cu_xO Transducer for Sensitivity Boost: Synthesis, Catalysis, and H₂O₂ Sensing. Analytical Chemistry, 2021, 93, 11066-11071.	6.5	9
17	Monofunctional pyrenes at carbon nanotube electrodes for direct electron transfer H2O2 reduction with HRP and HRP-bacterial nanocellulose. Biosensors and Bioelectronics, 2021, 187, 113304.	10.1	18
18	Polymers and nano-objects, a rational combination for developing health monitoring biosensors. Sensors and Actuators B: Chemical, 2021, 348, 130700.	7.8	14

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19	Multi-tailoring of a modified MOF-derived Cu_xO electrochemical transducer for enhanced hydrogen peroxide sensing. Analyst, The, 2021, 147, 72-79.	3.5	7
20	Functionalized tungsten disulfide nanotubes for dopamine and catechol detection in a tyrosinase-based amperometric biosensor design. Journal of Materials Chemistry B, 2020, 8, 3566-3573.	5.8	38
21	Enhanced Electrochemiluminescence of Porphyrin-Based Metalâ€“Organic Frameworks Controlled via Coordination Modulation. Analytical Chemistry, 2020, 92, 1916-1924.	6.5	28
22	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for Highâ€Performance Biocathodes. ChemElectroChem, 2020, 7, 4685-4689.	3.4	6
23	Postsynthesis Ligand Exchange Induced Porphyrin Hybrid Crystalloid Reconstruction for Self-Enhanced Electrochemiluminescence. Analytical Chemistry, 2020, 92, 15270-15274.	6.5	10
24	Diazonium Electrografting vs. Physical Adsorption of Azure A at Carbon Nanotubes for Mediated Glucose Oxidation with FADâ€GDH. ChemElectroChem, 2020, 7, 4543-4549.	3.4	20
25	Voltammetric sensing of recombinant viral dengue virus 2 NS1 based on Au nanoparticleâ€“decorated multiwalled carbon nanotube composites. Mikrochimica Acta, 2020, 187, 363.	5.0	39
26	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
27	ATMP derived cobalt-metaphosphate complex as highly active catalyst for oxygen reduction reaction. Journal of Catalysis, 2020, 387, 129-137.	6.2	28
28	(Invited) Electroactive Redox Polymers, Redox Glyconanoparticles and Supramolecular Assemblies Based on Nanotubes for Bioelectrochemical Applications. ECS Meeting Abstracts, 2020, MA2020-01, 2786-2786.	0.0	0
29	ATMP-induced three-dimensional conductive polymer hydrogel scaffold for a novel enhanced solid-state electrochemiluminescence biosensor. Biosensors and Bioelectronics, 2019, 143, 111601.	10.1	23
30	Uniform and Easy-To-Prepare Glycopolymer-Brush Interface for Rapid Protein (Anti-)Adhesion Sensing. ACS Applied Materials & Interfaces, 2019, 11, 32366-32372.	8.0	14
31	A Nanotube-Supported Dicopper Complex Enhances Pt-free Molecular H2/Air Fuel Cells. Joule, 2019, 3, 2020-2029.	24.0	28
32	Highly active M2P2O7@NC (Mâ€¯=â€¯Co and Zn) for bifunctional electrocatalysts for ORR and HER. Journal of Catalysis, 2019, 377, 20-27.	6.2	26
33	Stretchable and Flexible Buckypaperâ€Based Lactate Biofuel Cell for Wearable Electronics. Advanced Functional Materials, 2019, 29, 1905785.	14.9	132
34	Electrosynthesis of Pyrenediones on Carbon Nanotube Electrodes for Efficient Electron Transfer with FADâ€dependent Glucose Dehydrogenase in Biofuel Cell Anodes. ChemElectroChem, 2019, 6, 5242-5247.	3.4	17
35	A bifunctional triblock polynorbornene/carbon nanotube buckypaper bioelectrode for low-potential/high-current thionine-mediated glucose oxidation by FAD-GDH. Journal of Materials Chemistry A, 2019, 7, 1447-1450.	10.3	17
36	Self-assembled meso-tetra(4-carboxyphenyl)porphine: Structural modulation using surfactants for enhanced photoelectrochemical properties. Electrochimica Acta, 2019, 299, 560-566.	5.2	8

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37	A Diethyleneglycolâ€Pyreneâ€Modified Ru(II) Catalyst for the Design of Buckypaper Bioelectrodes and the Wiring of Glucose Dehydrogenases. ChemElectroChem, 2019, 6, 3621-3626.	3.4	13
38	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. Chemical Reviews, 2019, 119, 9509-9558.	47.7	321
39	1. Buckypapers for bioelectrochemical applications. , 2019, , 1-22.		4
40	Solubilized Enzymatic Fuel Cell (SEFC) for Quasi-Continuous Operation Exploiting Carbohydrate Block Copolymer Glyconanoparticle Mediators. ACS Energy Letters, 2019, 4, 142-148.	17.4	21
41	POXC Laccase from Pleurotus ostreatus: A Highâ€Performance Multicopper Enzyme for Direct Oxygen Reduction Reaction Operating in a Protonâ€Exchange Membrane Fuel Cell. ChemElectroChem, 2019, 6, 1023-1027.	3.4	10
42	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
43	Impedimetric quantification of anti-dengue antibodies using functional carbon nanotube deposits validated with blood plasma assays. Electrochimica Acta, 2018, 274, 84-90.	5.2	31
44	Direct Electrochemistry of Bilirubin Oxidase from Magnaporthe orizae on Covalentlyâ€Functionalized MWCNT for the Design of Highâ€Performance Oxygenâ€Reducing Biocathodes. Chemistry - A European Journal, 2018, 24, 8404-8408.	3.3	29
45	Comparison of Commercial and Labâ€made MWCNT Buckypaper: Physicochemical Properties and Bioelectrocatalytic O₂ Reduction. Electroanalysis, 2018, 30, 1511-1520.	2.9	16
46	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
47	Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. Journal of Power Sources, 2018, 408, 1-6.	7.8	29
48	DNA-Mediated Nanoscale Metalâ€“Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. Analytical Chemistry, 2018, 90, 12284-12291.	6.5	78
49	Towards eco-friendly power sources: In series connected glucose biofuel cells power a disposable ovulation test. Sensors and Actuators B: Chemical, 2018, 277, 360-364.	7.8	13
50	Buckypaper bioelectrodes: emerging materials for implantable and wearable biofuel cells. Energy and Environmental Science, 2018, 11, 1670-1687.	30.8	119
51	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
52	Glucose oxidase bioanodes for glucose conversion and H2O2 production for horseradish peroxidase biocathodes in a flow through glucose biofuel cell design. Journal of Power Sources, 2018, 392, 176-180.	7.8	35
53	Polymerization amplified SPRâ”DNA assay on noncovalently functionalized graphene. Biosensors and Bioelectronics, 2017, 89, 319-325.	10.1	14
54	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

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55	Carbonâ€Nanotubeâ€Supported Bioâ€Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. Angewandte Chemie, 2017, 129, 1871-1875.	2.0	17
56	Nanostructured photoactivatable electrode surface based on pyrene diazirine. Electrochemistry Communications, 2017, 80, 5-8.	4.7	8
57	Enhanced Electrochemiluminescence of One-Dimensional Self-Assembled Porphyrin Hexagonal Nanoprisms. ACS Applied Materials & Interfaces, 2017, 9, 20904-20912.	8.0	43
58	In situ formed copper nanoparticles templated by TdT-mediated DNA for enhanced SPR sensor-based DNA assay. Biosensors and Bioelectronics, 2017, 97, 1-7.	10.1	29
59	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
60	Controlled carbon nanotube layers for impedimetric immunosensors: High performance label free detection and quantification of anti-cholera toxin antibody. Biosensors and Bioelectronics, 2017, 97, 177-183.	10.1	37
61	Hydrazine Electrooxidation with PdNPs and Its Application for a Hybrid Self-Powered Sensor and N₂H₄Decontamination. Journal of the Electrochemical Society, 2017, 164, H3052-H3057.	2.9	9
62	Redox-Active Glyconanoparticles as Electron Shuttles for Mediated Electron Transfer with Bilirubin Oxidase in Solution. Journal of the American Chemical Society, 2017, 139, 16076-16079.	13.7	29
63	Graphene-based Biosensors for Dopamine Determination. Procedia Technology, 2017, 27, 106-107.	1.1	11
64	Towards a Versatile Photoreactive Platform for Biosensing Applications. Journal of Analysis and Testing, 2017, 1, 1.	5.1	1
65	Assembly and Stacking of Flow-through Enzymatic Bioelectrodes for High Power Glucose Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 23836-23842.	8.0	34
66	5,5-Dithiobis(2-nitrobenzoic acid) pyrene derivative-carbon nanotube electrodes for NADH electrooxidation and oriented immobilization of multicopper oxidases for the development of glucose/O2 biofuel cells. Biosensors and Bioelectronics, 2017, 87, 957-963.	10.1	43
67	Flotation Assembly of Large-Area Ultrathin MWCNT Nanofilms for Construction of Bioelectrodes. Nanomaterials, 2017, 7, 342.	4.1	5
68	Synergetic Effects of Combined Nanomaterials for Biosensing Applications. Sensors, 2017, 17, 1010.	3.8	47
69	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
70	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
71	Ready to use bioinformatics analysis as a tool to predict immobilisation strategies for protein direct electron transfer (DET). Biosensors and Bioelectronics, 2016, 85, 90-95.	10.1	2
72	Cubic PdNP-based air-breathing cathodes integrated in glucose hybrid biofuel cells. Nanoscale, 2016, 8, 10433-10440.	5.6	11

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73	A label-free photoelectrochemical cocaine aptasensor based on an electropolymerized ruthenium-intercalator complex. Electrochimica Acta, 2016, 219, 82-87.	5.2	9
74	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
75	Osmium(II) Complexes Bearing Chelating N-Heterocyclic Carbene and Pyrene-Modified Ligands: Surface Electrochemistry and Electron Transfer Mediation of Oxygen Reduction by Multicopper Enzymes. Organometallics, 2016, 35, 2987-2992.	2.3	22
76	Fluorescent and redox tetrazine films by host-guest immobilization of tetrazine derivatives within poly(pyrrole-Î²-cyclodextrin) films. Journal of Electroanalytical Chemistry, 2016, 781, 36-40.	3.8	12
77	Polyoxometalate [PMo11O39]7â¯/carbon nanocomposites for sensitive amperometric detection of nitrite. Electrochimica Acta, 2016, 222, 402-408.	5.2	25
78	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
79	Redox-Active Carbohydrate-Coated Nanoparticles: Self-Assembly of a Cyclodextrinâ€“Polystyrene Glycopolymer with Tetrazineâ€“Naphthalimide. Langmuir, 2016, 32, 11939-11945.	3.5	21
80	Enzymatic versus Electrocatalytic Oxidation of NADH at Carbonâ€Nanotube Electrodes Modified with Glucose Dehydrogenases: Application in a Buckyâ€Paperâ€Based Glucose Enzymatic Fuel Cell. ChemElectroChem, 2016, 3, 2058-2062.	3.4	19
81	Highly Sensitive Bisphenol-A Electrochemical Aptasensor Based on Poly(Pyrrole-Nitrilotriacetic) Tj ETQq1 1 0.784314 rgBT /Overlock 1	6.5	46
82	Robust bifunctional buckypapers from carbon nanotubes and polynorbornene copolymers for flexible engineering of enzymatic bioelectrodes. Carbon, 2016, 107, 542-547.	10.3	29
83	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
84	Glucose fuel cell based on carbon nanotube-supported pyreneâ€“metalloporphyrin catalysts. Journal of Materials Chemistry A, 2016, 4, 10635-10640.	10.3	31
85	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
86	Vibrio cholerae detection: Traditional assays, novel diagnostic techniques and biosensors. TrAC - Trends in Analytical Chemistry, 2016, 79, 199-209.	11.4	23
87	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
88	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
89	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
90	First Occurrence of Tetrazines in Aqueous Solution: Electrochemistry and Fluorescence. ChemPhysChem, 2015, 16, 3695-3699.	2.1	13

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91	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
92	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
93	Biomimetic versus enzymatic high-potential electrocatalytic reduction of hydrogen peroxide on a functionalized carbon nanotube electrode. Chemical Science, 2015, 6, 5139-5143.	7.4	31
94	Synthesis and electrochemical characterization of original â€œTEMPOâ€•functionalized multiwall carbon nanotube materials: Application to iron (II) detection. Electrochemistry Communications, 2015, 60, 131-134.	4.7	12
95	Ferricyanide confined into the integrative system of pyrrolic surfactant and SWCNTs: The enhanced electrochemial sensing of paracetamol. Electrochimica Acta, 2015, 186, 16-23.	5.2	12
96	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
97	Chemically reduced electrospun polyacrilonitrileâ€“carbon nanotube nanofibers hydrogels as electrode material for bioelectrochemical applications. Carbon, 2015, 87, 233-238.	10.3	25
98	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
99	Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. Cellular and Molecular Life Sciences, 2015, 72, 941-952.	5.4	143
100	High performance miniature glucose/O2 fuel cell based on porous silicon anion exchange membrane. Electrochemistry Communications, 2015, 54, 10-13.	4.7	15
101	Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. Chemical Communications, 2015, 51, 14574-14577.	4.1	13
102	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
103	Mass effect of redox reactions: A novel mode for surface plasmon resonance-based bioanalysis. Biosensors and Bioelectronics, 2015, 74, 183-189.	10.1	7
104	Biofunctionalizable flexible bucky paper by combination of multi-walled carbon nanotubes and polynorbornene-pyrene â€“ Application to the bioelectrocatalytic reduction of oxygen. Carbon, 2015, 93, 713-718.	10.3	19
105	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
106	A H 2 /O 2 enzymatic fuel cell as a sustainable power for a wireless device. Electrochemistry Communications, 2015, 60, 216-220.	4.7	36
107	Ferrocyanide-Ferricyanide Redox Couple Induced Electrochemiluminescence Amplification of Carbon Dots for Ultrasensitive Sensing of Glutathione. Analytical Chemistry, 2015, 87, 11150-11156.	6.5	91
108	Magnetic Zirconium Hexacyanoferrate(II) Nanoparticle as Tracing Tag for Electrochemical DNA Assay. Analytical Chemistry, 2015, 87, 9093-9100.	6.5	45

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109	Simultaneous Determination of Ascorbic and Uric Acids in Urine Using an Innovative Electrochemical Sensor Based on Î²-Cyclodextrin. Analytical Letters, 2015, 48, 89-99.	1.8	13
110	Layer-by-layer scaffold formation using magnetic attraction between HiPCOÂ® single-walled carbon nanotubes and magnetic nanoparticles: Application for high performance immunosensors. Carbon, 2015, 81, 731-738.	10.3	5
111	Labelâ€Free Photoelectrochemical Detection of Doubleâ€Stranded HIV DNA by Means of a Metallointercalatorâ€Functionalized Electrogenerated Polymer. Chemistry - A European Journal, 2014, 20, 15555-15560.	3.3	18
112	Nanomaterials for biosensing applications: a review. Frontiers in Chemistry, 2014, 2, 63.	3.6	794
113	Recent Advances in Carbon Nanotube-Based Enzymatic Fuel Cells. Frontiers in Bioengineering and Biotechnology, 2014, 2, 45.	4.1	75
114	Nanotubes and nanoparticles based 3D scaffolds for the construction of high performance Biosensors. Materials Research Society Symposia Proceedings, 2014, 1700, 97-102.	0.1	1
115	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
116	Towards glucose biofuel cells implanted in human body for powering artificial organs: Review. Electrochemistry Communications, 2014, 38, 19-23.	4.7	262
117	Biofunctionalization of Multiwalled Carbon Nanotubes by Electropolymerized Poly(pyrroleâ€concanavalinâ€...A) Films. Chemistry - A European Journal, 2014, 20, 13561-13564.	3.3	9
118	Unusual Fe(CN)₆^{3â€“/4â€“} Capture Induced by Synergic Effect of Electropolymeric Cationic Surfactant and Graphene: Characterization and Biosensing Application. ACS Applied Materials & Interfaces, 2014, 6, 21161-21166.	8.0	3
119	Biological Fuel Cells: Cardinal Advances and Critical Challenges. ChemElectroChem, 2014, 1, 1702-1704.	3.4	8
120	Permeability improvements of electropolymerized polypyrrole films using dissolvable nano-CaCO3 particle templates. Physical Chemistry Chemical Physics, 2014, 16, 5052.	2.8	2
121	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
122	Supramolecular immobilization of bio-entities for bioelectrochemical applications. New Journal of Chemistry, 2014, 38, 5173-5180.	2.8	18
123	Non-covalent double functionalization of carbon nanotubes with a NADH oxidation Ru(<scp>ii</scp>)-based molecular catalyst and a NAD-dependent glucose dehydrogenase. Chemical Communications, 2014, 50, 11731-11734.	4.1	43
124	Polypyrrolic Bipyridine Bis(phenantrolinequinone) Ru(II) Complex/Carbon Nanotube Composites for NAD-Dependent Enzyme Immobilization and Wiring. Analytical Chemistry, 2014, 86, 4409-4415.	6.5	25
125	From gold porphyrins to gold nanoparticles: catalytic nanomaterials for glucose oxidation. Nanoscale, 2014, 6, 8556-8560.	5.6	20
126	Electrochemical nanopatterning of an electrogenerated photosensitive poly-[trisbipyridinyl-pyrrole ruthenium(II)] metallopolymer by nanosphere lithography. Electrochemistry Communications, 2014, 46, 75-78.	4.7	10

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127	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
128	Biopolymeric receptor for peptide recognition by molecular imprinting approachâ€"Synthesis, characterization and application. Materials Science and Engineering C, 2014, 45, 383-394.	7.3	13
129	Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. Chemistry of Materials, 2014, 26, 1807-1812.	6.7	43
130	Graphene/clay composite electrode formed by exfoliating graphite with Laponite for simultaneous determination of ascorbic acid, dopamine, and uric acid. Monatshefte FÃ¼r Chemie, 2014, 145, 1389-1394.	1.8	12
131	MWCNT-supported phthalocyanine cobalt as air-breathing cathodic catalyst in glucose/O2 fuel cells. Journal of Power Sources, 2014, 255, 24-28.	7.8	33
132	Micro- to nanostructured poly(pyrrole-nitrilotriacetic acid) films via nanosphere templates: applications to 3D enzyme attachment by affinity interactions. Analytical and Bioanalytical Chemistry, 2014, 406, 1141-1147.	3.7	20
133	Conductive Polymers, Immobilization of Macromolecular Bio-Entities. , 2014, , 253-260.		2
134	Carbon Nanotube Matrices for Enzymatic Glucose Biofuel Cells: Shapes and Growth. , 2014, , 1-10.		1
135	Biofuel Cells. , 2013, , 409-423.		1
136	A Solidâ€State Electrochemiluminescence Ethanol Biosensor Based on Electrogenerated Poly(pyrroleâ€tris(2,2â€²â€bipyridyl)ruthenium(II)) Film/Alcohol Dehydrogenase/Laponite Composite. Electroanalysis, 2013, 25, 697-702.	2.9	7
137	Efficient direct oxygen reduction by laccases attached and oriented on pyrene-functionalized polypyrrole/carbon nanotube electrodes. Chemical Communications, 2013, 49, 9281.	4.1	81
138	A biosensing application based on quenching the enhanced electrochemiluminescence of poly[tris(N-bipyridylethyl)pyrrole] ruthenium(II) film by Au nanoparticles. Journal of Electroanalytical Chemistry, 2013, 692, 60-65.	3.8	6
139	Flexible metallization of electrospun nanofibers: Dramatically enhanced solid-state electrochemistry and electrochemiluminescence of the immobilized tris(2,2â€²-bipyridyl)ruthenium(II). Sensors and Actuators B: Chemical, 2013, 181, 159-165.	7.8	6
140	Impedimetric biosensor for cancer cell detection. Electrochemistry Communications, 2013, 37, 36-39.	4.7	33
141	Voltammetric detection of heparin based on anion exchange at electropolymeric film of pyrrole-alkylammonium cationic surfactant and MWCNTs composite. Electrochemistry Communications, 2013, 34, 339-343.	4.7	26
142	Single Glucose Biofuel Cells Implanted in Rats Power Electronic Devices. Scientific Reports, 2013, 3, 1516.	3.3	301
143	A double-walled carbon nanotube-based glucose/H2O2 biofuel cell operating under physiological conditions. Electrochemistry Communications, 2013, 34, 105-108.	4.7	58
144	Enhanced electrochemiluminescence of peroxydisulfate by electrodeposited Au nanoparticles and its biosensing application via integrating biocatalytic precipitation using self-assembly bi-enzymes. Journal of Electroanalytical Chemistry, 2013, 703, 9-13.	3.8	12

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145	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
146	Nanomaterials for Enzyme Biofuel Cells. , 2013, , 49-66.		0
147	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
148	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
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