Serge Cosnier

List of Publications by Citations

402 papers	17,828 citations	69 h-index	107 g-index
423 ext. papers	19,182 ext. citations	7.2 avg, IF	6.97 L-index

#	Paper	IF	Citations
402	Biomolecule immobilization on electrode surfaces by entrapment or attachment to electrochemically polymerized films. A review. *Biosensors and Bioelectronics*, **1999**, 14, 443-56	11.8	661
401	Nanomaterials for biosensing applications: a review. *Frontiers in Chemistry*, **2014**, 2, 63	5	587
400	Mediatorless high-power glucose biofuel cells based on compressed carbon nanotube-enzyme electrodes. *Nature Communications*, **2011**, 2, 370	17.4	457
399	A glucose biofuel cell implanted in rats. *PLoS ONE*, **2010**, 5, e10476	3.7	303
398	Subnanomolar cyanide detection at polyphenol oxidase/clay biosensors. *Analytical Chemistry*, **2004**, 76, 178-83	7.8	282
397	Single glucose biofuel cells implanted in rats power electronic devices. *Scientific Reports*, **2013**, 3, 1516	4.9	261
396	Photoelectrochemical immunosensor for label-free detection and quantification of anti-cholera toxin antibody. *Journal of the American Chemical Society*, **2006**, 128, 9693-8	16.4	257
395	Biosensors based on electropolymerized films: new trends. *Analytical and Bioanalytical Chemistry*, **2003**, 377, 507-20	4.4	232
394	Towards glucose biofuel cells implanted in human body for powering artificial organs: Review. *Electrochemistry Communications*, **2014**, 38, 19-23	5.1	217
393	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. *Chemical Reviews*, **2019**, 119, 9509-9558	68.1	207
392	Carbon nanotube/enzyme biofuel cells. *Electrochimica Acta*, **2012**, 82, 179-190	6.7	192
391	Layered double hydroxides: an attractive material for electrochemical biosensor design. *Analytical Chemistry*, **2003**, 75, 3872-9	7.8	185
390	Recent advances on enzymatic glucose/oxygen and hydrogen/oxygen biofuel cells: Achievements and limitations. *Journal of Power Sources*, **2016**, 325, 252-263	8.9	162
389	Noncovalently functionalized monolayer graphene for sensitivity enhancement of surface plasmon resonance immunosensors. *Journal of the American Chemical Society*, **2015**, 137, 2800-3	16.4	158
388	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	10.4	145
387	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, 4892-6	3.6	138
386	Electrosynthesized polymers for biosensing. *Chemical Society Reviews*, **2011**, 40, 2146-56	58.5	132

385	Development of amperometric biosensor for glucose based on a novel attractive enzyme immobilization matrix: calcium carbonate nanoparticles. *Biosensors and Bioelectronics*, **2007**, 22, 1612-7	11.8	132
384	Affinity Biosensors Based on Electropolymerized Films. *Electroanalysis*, **2005**, 17, 1701-1715	3	132
383	A glucose biosensor based on enzyme entrapment within polypyrrole films electrodeposited on mesoporous titanium dioxide. *Journal of Electroanalytical Chemistry*, **1999**, 469, 176-181	4.1	132
382	Urea biosensors based on immobilization of urease into two oppositely charged clays (laponite and Zn-Al layered double hydroxides). *Analytical Chemistry*, **2002**, 74, 4037-43	7.8	128
381	Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. *Cellular and Molecular Life Sciences*, **2015**, 72, 941-52	10.3	125
380	A novel biosensor elaboration by electropolymerization of an adsorbed amphiphilic pyrrole-tyrosinase enzyme layer. *Journal of Electroanalytical Chemistry*, **1992**, 328, 361-366	4.1	125
379	Direct electrochemistry and electrocatalysis of hemoglobin entrapped in composite matrix based on chitosan and CaCO3 nanoparticles. *Electrochemistry Communications*, **2007**, 9, 529-534	5.1	119
378	Recent advances in DNA sensors. *Analyst, The*, **2008**, 133, 984-91	5	114
377	Enzymatic biosensors based on SWCNT-conducting polymer electrodes. *Analyst, The*, **2011**, 136, 1279-87	5	110
376	A new strategy for the construction of a tyrosinase-based amperometric phenol and o-diphenol sensor. *Bioelectrochemistry*, **1993**, 31, 147-160		110
375	A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides. *Analytica Chimica Acta*, **1995**, 311, 255-263	6.6	107
374	Zirconium-Based Porphyrinic Metal-Organic Framework (PCN-222): Enhanced Photoelectrochemical Response and Its Application for Label-Free Phosphoprotein Detection. *Analytical Chemistry*, **2016**, 88, 11207-11212	7.8	106
373	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	35.4	106
372	A biotinylated conducting polypyrrole for the spatially controlled construction of an amperometric biosensor. *Analytical Chemistry*, **1999**, 71, 3692-7	7.8	105
371	Amperometric phenol biosensor based on laponite clay-chitosan nanocomposite matrix. *Biosensors and Bioelectronics*, **2007**, 22, 816-21	11.8	101
370	Electrochemical coating of a platinum electrode by a poly(pyrrole) film containing the fac-Re(2,2?-bipyridine)(CO)3Cl system application to electrocatalytic reduction of CO2. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1986**, 207, 315-321		101
369	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, 14078-85	16.4	100
368	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, 5752-3	16.4	100

367	Amperometric Detection of Nitrate via a Nitrate Reductase Immobilized and Electrically Wired at the Electrode Surface. *Analytical Chemistry*, **1994**, 66, 3198-3201	7.8	98
366	Oxidative electropolymerization of polypyridinyl complexes of ruthenium(II)-containing pyrrole groups. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1985**, 193, 193-204		92
365	Impedimetric immunosensor using avidin-biotin for antibody immobilization. *Bioelectrochemistry*, **2002**, 56, 131-3	5.6	91
364	Hybrid material based on chitosan and layered double hydroxides: characterization and application to the design of amperometric phenol biosensor. *Biomacromolecules*, **2007**, 8, 971-5	6.9	90
363	Buckypaper bioelectrodes: emerging materials for implantable and wearable biofuel cells. *Energy and Environmental Science*, **2018**, 11, 1670-1687	35.4	87
362	Adamantane/beta-cyclodextrin affinity biosensors based on single-walled carbon nanotubes. *Biosensors and Bioelectronics*, **2009**, 24, 1128-34	11.8	84
361	An electrochemical method for making enzyme microsensors. Application to the detection of dopamine and glutamate. *Analytical Chemistry*, **1997**, 69, 968-71	7.8	83
360	Optical fiber immunosensor based on a poly(pyrrole-benzophenone) film for the detection of antibodies to viral antigen. *Analytical Chemistry*, **2005**, 77, 1771-9	7.8	83
359	Stretchable and Flexible Buckypaper-Based Lactate Biofuel Cell for Wearable Electronics. *Advanced Functional Materials*, **2019**, 29, 1905785	15.6	81
358	Label-free femtomolar detection of target DNA by impedimetric DNA sensor based on poly(pyrrole-nitrilotriacetic acid) film. *Analytical Chemistry*, **2010**, 82, 1066-72	7.8	81
357	Protease amperometric sensor. *Analytical Chemistry*, **2006**, 78, 6327-31	7.8	81
356	Laccase immobilization in redox active layered double hydroxides: a reagentless amperometric biosensor. *Biosensors and Bioelectronics*, **2007**, 22, 1733-8	11.8	80
355	Functionalised single wall carbon nanotubes/polypyrrole composites for the preparation of amperometric glucose biosensors. *Journal of Materials Chemistry*, **2004**, 14, 807-810		80
354	One-pot synthesis of nitrogen-rich carbon dots decorated graphene oxide as metal-free electrocatalyst for oxygen reduction reaction. *Carbon*, **2016**, 109, 402-410	10.4	79
353	Electrogeneration of Biotinylated Functionalized Polypyrroles for the Simple Immobilization of Enzymes. *Electroanalysis*, **1998**, 10, 808-813	3	78
352	Synthesis and characterization of a pyrrole-alginate conjugate and its application in a biosensor construction. *Biomacromolecules*, **2005**, 6, 3313-8	6.9	78
351	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		77
350	Electropolymerization of amphiphilic monomers for designing amperometric biosensors. *Electroanalysis*, **1997**, 9, 894-902	3	76

349	Recent Advances in Biological Sensors Based on Electrogenerated Polymers: A Review. *Analytical Letters*, **2007**, 40, 1260-1279	2.2	76
348	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, 219-26	6.2	75
347	Simultaneous electrochemical determination of dopamine and paracetamol based on thin pyrolytic carbon films. *Analytical Methods*, **2012**, 4, 2048	3.2	74
346	DMF-exfoliated graphene for electrochemical NADH detection. *Physical Chemistry Chemical Physics*, **2011**, 13, 7747-50	3.6	74
345	Highly sensitive nitrite biosensor based on the electrical wiring of nitrite reductase by [ZnCr-AQS] LDH. *Electrochemistry Communications*, **2007**, 9, 2240-2245	5.1	74
344	Specific determination of As(V) by an acid phosphatase-polyphenol oxidase biosensor. *Analytical Chemistry*, **2006**, 78, 4985-9	7.8	74
343	Carbon-Nanotube-Supported Bio-Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. *Angewandte Chemie - International Edition*, **2017**, 56, 1845-1849	16.4	73
342	Efficient direct oxygen reduction by laccases attached and oriented on pyrene-functionalized polypyrrole/carbon nanotube electrodes. *Chemical Communications*, **2013**, 49, 9281-3	5.8	73
341	HRP/[Zn-Cr-ABTS] redox clay-based biosensor: design and optimization for cyanide detection. *Biosensors and Bioelectronics*, **2004**, 20, 390-6	11.8	73
340	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	6.6	73
339	Impedimetric immunosensor for the specific label free detection of ciprofloxacin antibiotic. *Biosensors and Bioelectronics*, **2007**, 23, 549-55	11.8	72
338	Construction of amperometric immunosensors based on the electrogeneration of a permeable biotinylated polypyrrole film. *Analytical Chemistry*, **2004**, 76, 6808-13	7.8	71
337	A membraneless air-breathing hydrogen biofuel cell based on direct wiring of thermostable enzymes on carbon nanotube electrodes. *Chemical Communications*, **2015**, 51, 7447-50	5.8	70
336	Sensitive and selective xanthine amperometric sensors based on calcium carbonate nanoparticles. *Sensors and Actuators B: Chemical*, **2009**, 136, 510-515	8.5	70
335	Fully Oriented Bilirubin Oxidase on Porphyrin-Functionalized Carbon Nanotube Electrodes for Electrocatalytic Oxygen Reduction. *Chemistry - A European Journal*, **2015**, 21, 16868-73	4.8	69
334	Biosensors based on immobilization of biomolecules by electrogenerated polymer films. New perspectives. *Applied Biochemistry and Biotechnology*, **2000**, 89, 127-38	3.2	69
333	Supramolecular immobilization of laccase on carbon nanotube electrodes functionalized with (methylpyrenylaminomethyl)anthraquinone for direct electron reduction of oxygen. *Chemistry - A European Journal*, **2013**, 19, 9371-5	4.8	68
332	Gold electrode functionalized by electropolymerization of a cyano N-substituted pyrrole: application to an impedimetric immunosensor. *Journal of Electroanalytical Chemistry*, **2001**, 501, 62-69	4.1	68

331	Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film. *Biosensors and Bioelectronics*, **2013**, 41, 90-5	11.8	67
330	A Bienzyme Electrode (Alkaline Phosphatase–Polyphenol Oxidase) for the Amperometric Determination of Phosphate. *Analytical Chemistry*, **1998**, 70, 3952-3956	7.8	66
329	Ferrocyanide-Ferricyanide Redox Couple Induced Electrochemiluminescence Amplification of Carbon Dots for Ultrasensitive Sensing of Glutathione. *Analytical Chemistry*, **2015**, 87, 11150-6	7.8	65
328	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	13.1	65
327	Development of an "electroptode" immunosensor: indium tin oxide-coated optical fiber tips conjugated with an electropolymerized thin film with conjugated cholera toxin B subunit. *Analytical Chemistry*, **2003**, 75, 2633-9	7.8	65
326	Poly(pyrrole–biotin): a new polymer for biomolecule grafting on electrode surfaces. *Electrochimica Acta*, **1999**, 44, 1833-1836	6.7	65
325	Electrochemical properties of [(C5Me5)RhIII(L)Cl]+ complexes (L = 2,2?-bipyridine or 1,10-phenanthroline derivatives) in solution in related polypyrrolic films. Application to electrocatalytic hydrogen generation. *Journal of Electroanalytical Chemistry*, **1993**, 352, 213-228	4.1	65
324	Freestanding HRP–GOx redox buckypaper as an oxygen-reducing biocathode for biofuel cell applications. *Energy and Environmental Science*, **2015**, 8, 2069-2074	35.4	63
323	Impedimetric immunosensor based on a polypyrrole-antibiotic model film for the label-free picomolar detection of ciprofloxacin. *Analytical Chemistry*, **2009**, 81, 8405-9	7.8	63
322	Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes. *Analytica Chimica Acta*, **1998**, 364, 165-172	6.6	63
321	Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol. *Analytica Chimica Acta*, **1996**, 319, 145-151	6.6	63
320	Recent advances in carbon nanotube-based enzymatic fuel cells. *Frontiers in Bioengineering and Biotechnology*, **2014**, 2, 45	5.8	62
319	Entrapment of enzyme within organic and inorganic materials for biosensor applications: Comparative study. *Materials Science and Engineering C*, **2006**, 26, 442-447	8.3	62
318	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	6.6	62
317	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	13.1	61
316	New electropolymerizable amphiphilic viologens for the immobilization and electrical wiring of a nitrate reductase. *Journal of Electroanalytical Chemistry*, **1997**, 433, 113-119	4.1	61
315	Calcium carbonate nanoparticles: a host matrix for the construction of highly sensitive amperometric phenol biosensor. *Biosensors and Bioelectronics*, **2007**, 23, 648-54	11.8	60
314	Mercury–enzyme inhibition assays with an amperometric sucrose biosensor based on a trienzymatic-clay matrix. *Analytica Chimica Acta*, **2005**, 543, 143-149	6.6	60

313	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		60
312	Amperometric Algal Chlorella vulgaris Cell Biosensors Based on Alginate and Polypyrrole-Alginate Gels. *Electroanalysis*, **2006**, 18, 1041-1046	3	59
311	Improvement of biosensor performances for nitrate determination using a new hydrophilic poly(pyrrole-viologen) film. *Sensors and Actuators B: Chemical*, **2004**, 103, 397-402	8.5	59
310	DNA-Mediated Nanoscale Metal-Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. *Analytical Chemistry*, **2018**, 90, 12284-12291	7.8	59
309	Trienzymatic biosensor for the determination of inorganic phosphate. *Analytica Chimica Acta*, **2001**, 443, 1-8	6.6	58
308	Label-free impedimetric immunosensor for sensitive detection of atrazine. *Electrochimica Acta*, **2010**, 55, 6228-6232	6.7	57
307	Hydrogen fuel electrode based on bioelectrocatalysis by the enzyme hydrogenase. *Electrochemistry Communications*, **2002**, 4, 417-420	5.1	57
306	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	8.5	57
305	Carbon/poly {pyrrole-[(C5Me5)RhIII(bpy)Cl]+} modified electrodes; a molecularly-based material for hydrogen evolution (bpy = 2,2?-bipyridine). *Journal of the Chemical Society Chemical Communications*, **1989**, 1259-1261		57
304	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		56
303	Sol□el Derived Composite Materials for the Construction of Oxidase/Peroxidase Mediatorless Biosensors. *Chemistry of Materials*, **1997**, 9, 1348-1352	9.6	55
302	Amperometric immunosensor for the detection of anti-West Nile virus IgG. *Analytical Chemistry*, **2007**, 79, 8662-8	7.8	55
301	Self-assembled films of hemoglobin/laponite/chitosan: application for the direct electrochemistry and catalysis to hydrogen peroxide. *Biomacromolecules*, **2007**, 8, 3041-6	6.9	55
300	Hydrogenase electrodes for fuel cells. *Biochemical Society Transactions*, **2005**, 33, 73-5	5.1	55
299	Beyond the hype surrounding biofuel cells: What's the future of enzymatic fuel cells?. *Current Opinion in Electrochemistry*, **2018**, 12, 148-155	7.2	55
298	Current-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	3	52
297	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, 1171-6	11.8	52
296	Colloidal laponite nanoparticles: extended application in direct electrochemistry of glucose oxidase and reagentless glucose biosensing. *Biosensors and Bioelectronics*, **2010**, 25, 1427-33	11.8	52

295	Mesoporous TiO2 films: New catalytic electrode fabricating amperometric biosensors based on oxidases. *Electroanalysis*, **1997**, 9, 1387-1392	3	52
294	Oriented Immobilization of [NiFeSe] Hydrogenases on Covalently and Noncovalently Functionalized Carbon Nanotubes for H2/Air Enzymatic Fuel Cells. *ACS Catalysis*, **2018**, 8, 3957-3964	13.1	51
293	One-year stability for a glucose/oxygen biofuel cell combined with pH reactivation of the laccase/carbon nanotube biocathode. *Bioelectrochemistry*, **2015**, 106, 73-6	5.6	50
292	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 toxin antibody. *Biosensors and Bioelectronics*, **2013**, 42, 556-62	11.8	50
291	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	6.7	49
290	Multiple functionalization of single-walled carbon nanotubes by dip coating. *Chemical Communications*, **2011**, 47, 2450-2	5.8	48
289	An efficient poly(pyrrole viologen)-nitrite reductase biosensor for the mediated detection of nitrite. *Electrochemistry Communications*, **2004**, 6, 404-408	5.1	48
288	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, 10494-500	4.8	48
287	Hosting Adamantane in the Substrate Pocket of Laccase: Direct Bioelectrocatalytic Reduction of O2 on Functionalized Carbon Nanotubes. *ACS Catalysis*, **2016**, 6, 4259-4264	13.1	47
286	Improvement of poly(amphiphilic pyrrole) enzyme electrodes via the incorporation of synthetic laponite-clay-nanoparticles. *Talanta*, **1997**, 44, 2209-15	6.2	47
285	A New Polyphenol Oxidase Biosensor Mediated by Azure B in Laponite Clay Matrix. *Electroanalysis*, **2003**, 15, 1506-1512	3	47
284	A double-walled carbon nanotube-based glucose/H2O2 biofuel cell operating under physiological conditions. *Electrochemistry Communications*, **2013**, 34, 105-108	5.1	46
283	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, 8736-42	4	46
282	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	4.1	46
281	The limiting performance characteristics in bioelectrocatalysis of hydrogenase enzymes. *Angewandte Chemie - International Edition*, **2007**, 46, 7244-6	16.4	46
280	Mediated electrochemical detection of catechol by tyrosinase-based poly(dicarbazole) electrodes. *Journal of Proteomics*, **2001**, 50, 65-77		46
279	TiO2 nanocrystals electrochemiluminescence quenching by biological enlarged nanogold particles and its application for biosensing. *Biosensors and Bioelectronics*, **2013**, 39, 342-5	11.8	45
278	A composite poly azure B clay enzyme sensor for the mediated electrochemical determination of phenols. *Journal of Electroanalytical Chemistry*, **2002**, 537, 103-109	4.1	45

277	Composite carbon paste biosensor for phenolic derivatives based on in situ electrogenerated polypyrrole binder. *Analytical Chemistry*, **2003**, 75, 5422-8	7.8	45
276	Zirconium-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, 11649-57	7.7	45
275	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	11.8	44
274	Non-covalent biofunctionalization of single-walled carbon nanotubes via biotin attachment by π-stacking interactions and pyrrole polymerization. *Analyst, The*, **2009**, 134, 2412-8	5	44
273	Electrochemical nitrate biosensor based on poly(pyrrole-viologen) film-nitrate reductase-clay composite. *Bioelectrochemistry*, **2008**, 74, 47-51	5.6	44
272	Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer. *Chemical Science*, **2014**, 5, 2885-2888	8.4	43
271	Tris(bispyrene-bipyridine)iron(II): a supramolecular bridge for the biofunctionalization of carbon nanotubes via π-stacking and pyrene/β-cyclodextrin host-guest interactions. *Chemistry - A European Journal*, **2011**, 17, 10216-21	4.8	43
270	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, 536-41	11.8	43
269	Biotinylated alginate immobilization matrix in the construction of an amperometric biosensor: application for the determination of glucose. *Analytica Chimica Acta*, **2002**, 453, 71-79	6.6	43
268	Improved enzyme retention from an electropolymerized polypyrrole-alginate matrix in the development of biosensors. *Electrochemistry Communications*, **2005**, 7, 1277-1282	5.1	43
267	Poly(pyrrole–metallodeuteroporphyrin)electrodes: towards electrochemical biomimetic devices. *Journal of Electroanalytical Chemistry*, **2000**, 488, 83-91	4.1	43
266	A laponite clay-poly(pyrrole–pyridinium) matrix for the fabrication of conductimetric microbiosensors. *Analytica Chimica Acta*, **1999**, 401, 117-124	6.6	43
265	Electrogeneration of a biotinylated poly(pyrrole-ruthenium(II)) film for the construction of photoelectrochemical immunosensor. *Chemical Communications*, **2004**, 2472-3	5.8	42
264	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	4.1	42
263	Three-dimensional carbon nanotube–polypyrrole–[NiFe] hydrogenase electrodes for the efficient electrocatalytic oxidation of H2. *International Journal of Hydrogen Energy*, **2011**, 36, 12096-12101	6.7	41
262	Polycrystalline bismuth oxide films for development of amperometric biosensor for phenolic compounds. *Biosensors and Bioelectronics*, **2009**, 24, 3671-6	11.8	41
261	Direct and electrically wired bioelectrocatalysis by hydrogenase from Thiocapsa roseopersicina. *Bioelectrochemistry*, **2002**, 55, 169-71	5.6	41
260	Elaboration and characterization of spatially controlled assemblies of complementary polyphenol oxidase-alkaline phosphatase activities on electrodes. *Analytical Chemistry*, **2001**, 73, 2890-7	7.8	41

259	Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. *Chemistry of Materials*, **2014**, 26, 1807-1812	9.6	40
258	Wiring laccase on covalently modified graphene: carbon nanotube assemblies for the direct bio-electrocatalytic reduction of oxygen. *Chemistry - A European Journal*, **2015**, 21, 3198-201	4.8	40
257	Xanthine oxidase/laponite nanoparticles immobilized on glassy carbon electrode: direct electron transfer and multielectrocatalysis. *Biosensors and Bioelectronics*, **2009**, 24, 3556-61	11.8	40
256	Laccase electrodes based on the combination of single-walled carbon nanotubes and redox layered double hydroxides: Towards the development of biocathode for biofuel cells. *Journal of Power Sources*, **2010**, 195, 4714-4717	8.9	40
255	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	8.5	40
254	A polypyrrole [RhIIIC5Me5(bpy)Cl]+ modified electrode for the reduction of NAD+ cofactor. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1991**, 315, 307-312		40
253	Magnetic zirconium hexacyanoferrate(II) nanoparticle as tracing tag for electrochemical DNA assay. *Analytical Chemistry*, **2015**, 87, 9093-100	7.8	39
252	Non-covalent double functionalization of carbon nanotubes with a NADH oxidation Ru(II)-based molecular catalyst and a NAD-dependent glucose dehydrogenase. *Chemical Communications*, **2014**, 50, 11731-4	5.8	39
251	Direct electron transfer between tyrosinase and multi-walled carbon nanotubes for bioelectrocatalytic oxygen reduction. *Electrochemistry Communications*, **2012**, 20, 19-22	5.1	39
250	Enhanced solid-state electrochemiluminescence of tris(2,2'-bipyridyl)ruthenium(II) incorporated into electrospun nanofibrous mat. *Analytical Chemistry*, **2010**, 82, 5892-6	7.8	39
249	HRP Wiring by Redox Active Layered Double Hydroxides: Application to the Mediated H2O2 Detection. *Analytical Letters*, **2003**, 36, 909-922	2.2	39
248	Bioelectrocatalytic hydrogen production by hydrogenase electrodes. *International Journal of Hydrogen Energy*, **2002**, 27, 1501-1505	6.7	39
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