Serge Cosnier

List of Publications by Year in Descending Order

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	Trialkoxyheptazine-Based Glyconanoparticles for Fluorescence in Aqueous Solutions and on Surfaces via Controlled Binding in Space.. *ACS Macro Letters*, **2022**, 11, 135-139	6.6	0
401	Organic Cyclodextrin Nanoparticle: An Efficient Building Block Between Functionalized Poly(pyrrole) Electrodes and Enzymes.. *Small*, **2022**, e2105880	11	0
400	Nitrobenzoic acid-functionalized gold nanoparticles: DET promoter of multicopper oxidases and electrocatalyst for NAD-dependent glucose dehydrogenase. *Electrochimica Acta*, **2022**, 408, 139894	6.7	1
399	A membraneless starch/O biofuel cell based on bacterial surface regulable displayed sequential enzymes of glucoamylase and glucose dehydrogenase.. *Biosensors and Bioelectronics*, **2022**, 207, 114197	11.8	1
398	2-Methylimidazole-tuned -Self strategy based on benzimidazole-5-carboxylate for boosting oxygen reduction electrocatalysis. *Applied Surface Science*, **2022**, 591, 153066	6.7	0
397	Multi-tailoring of a modified MOF-derived CuO electrochemical transducer for enhanced hydrogen peroxide sensing. *Analyst, The*, **2021**,	5	3
396	Functionalizable Glyconanoparticles for a Versatile Redox Platform. *Nanomaterials*, **2021**, 11,	5.4	4
395	Microcapsule-based biosensor containing catechol for the reagent-free inhibitive detection of benzoic acid by tyrosinase. *Biosensors and Bioelectronics*, **2021**, 180, 113137	11.8	4
394	Fe-MOGs-based enzyme mimetic and its mediated electrochemiluminescence for in situ detection of HO released from Hela cells. *Biosensors and Bioelectronics*, **2021**, 184, 113216	11.8	11
393	Insights into carbon nanotube-assisted electro-oxidation of polycyclic aromatic hydrocarbons for mediated bioelectrocatalysis. *Chemical Communications*, **2021**, 57, 8957-8960	5.8	0
392	Freestanding biopellet electrodes based on carbon nanotubes and protein compression for direct and mediated bioelectrocatalysis. *Electrochemistry Communications*, **2021**, 122, 106895	5.1	2
391	Wearable Biosupercapacitor: Harvesting and Storing Energy from Sweat. *Advanced Functional Materials*, **2021**, 31, 2102915	15.6	16
390	Postmodulation of the Metal-Organic Framework Precursor toward the Vacancy-Rich CuO Transducer for Sensitivity Boost: Synthesis, Catalysis, and HO Sensing. *Analytical Chemistry*, **2021**, 93, 11066-11071	7.8	2
389	Monofunctional pyrenes at carbon nanotube electrodes for direct electron transfer HO reduction with HRP and HRP-bacterial nanocellulose. *Biosensors and Bioelectronics*, **2021**, 187, 113304	11.8	6
388	Polymers and nano-objects, a rational combination for developing health monitoring biosensors. *Sensors and Actuators B: Chemical*, **2021**, 348, 130700	8.5	4
387	Voltammetric sensing of recombinant viral dengue virus 2 NS1 based on Au nanoparticle-decorated multiwalled carbon nanotube composites. *Mikrochimica Acta*, **2020**, 187, 363	5.8	23
386	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	16.4	26

385	ATMP derived cobalt-metaphosphate complex as highly active catalyst for oxygen reduction reaction. *Journal of Catalysis*, **2020**, 387, 129-137	7.3	16
384	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	7.3	17
383	Enhanced Electrochemiluminescence of Porphyrin-Based Metal-Organic Frameworks Controlled via Coordination Modulation. *Analytical Chemistry*, **2020**, 92, 1916-1924	7.8	13
382	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for High-Performance Biocathodes. *ChemElectroChem*, **2020**, 7, 4685-4689	4.3	1
381	Postsynthesis Ligand Exchange Induced Porphyrin Hybrid Crystalloid Reconstruction for Self-Enhanced Electrochemiluminescence. *Analytical Chemistry*, **2020**, 92, 15270-15274	7.8	2
380	Diazonium Electrografting vs. Physical Adsorption of Azure A at Carbon Nanotubes for Mediated Glucose Oxidation with FAD-GDH. *ChemElectroChem*, **2020**, 7, 4543-4549	4.3	9
379	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	13	11
378	Self-assembled meso-tetra(4-carboxyphenyl)porphine: Structural modulation using surfactants for enhanced photoelectrochemical properties. *Electrochimica Acta*, **2019**, 299, 560-566	6.7	3
377	A Diethyleneglycol-Pyrene-Modified Ru(II) Catalyst for the Design of Buckypaper Bioelectrodes and the Wiring of Glucose Dehydrogenases. *ChemElectroChem*, **2019**, 6, 3621-3626	4.3	8
376	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. *Chemical Reviews*, **2019**, 119, 9509-9558	68.1	207
375	ATMP-induced three-dimensional conductive polymer hydrogel scaffold for a novel enhanced solid-state electrochemiluminescence biosensor. *Biosensors and Bioelectronics*, **2019**, 143, 111601	11.8	16
374	Uniform and Easy-To-Prepare Glycopolymer-Brush Interface for Rapid Protein (Anti-)Adhesion Sensing. *ACS Applied Materials & Interfaces*, **2019**, 11, 32366-32372	9.5	11
373	A Nanotube-Supported Dicopper Complex Enhances Pt-free Molecular H2/Air Fuel Cells. *Joule*, **2019**, 3, 2020-2029	27.8	19
372	Highly active M2P2O7@NC (M = Co and Zn) for bifunctional electrocatalysts for ORR and HER. *Journal of Catalysis*, **2019**, 377, 20-27	7.3	10
371	Stretchable and Flexible Buckypaper-Based Lactate Biofuel Cell for Wearable Electronics. *Advanced Functional Materials*, **2019**, 29, 1905785	15.6	81
370	Electrosynthesis of Pyrenediones on Carbon Nanotube Electrodes for Efficient Electron Transfer with FAD-dependent Glucose Dehydrogenase in Biofuel Cell Anodes. *ChemElectroChem*, **2019**, 6, 5242-5247	4.3	12
369	Molecular Design of Glucose Biofuel Cell Electrodes **2019**, 287-306		
368	1. Buckypapers for bioelectrochemical applications **2019**, 1-22		3

367	Solubilized Enzymatic Fuel Cell (SEFC) for Quasi-Continuous Operation Exploiting Carbohydrate Block Copolymer Glyconanoparticle Mediators. *ACS Energy Letters*, **2019**, 4, 142-148	20.1	14
366	POXC Laccase from Pleurotus ostreatus: A High-Performance Multicopper Enzyme for Direct Oxygen Reduction Reaction Operating in a Proton-Exchange Membrane Fuel Cell. *ChemElectroChem*, **2019**, 6, 1023-1027	4.3	6
365	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
364	Impedimetric quantification of anti-dengue antibodies using functional carbon nanotube deposits validated with blood plasma assays. *Electrochimica Acta*, **2018**, 274, 84-90	6.7	22
363	Direct Electrochemistry of Bilirubin Oxidase from Magnaporthe orizae on Covalently-Functionalized MWCNT for the Design of High-Performance Oxygen-Reducing Biocathodes. *Chemistry - A European Journal*, **2018**, 24, 8404-8408	4.8	23
362	Comparison of Commercial and Lab-made MWCNT Buckypaper: Physicochemical Properties and Bioelectrocatalytic O2 Reduction. *Electroanalysis*, **2018**, 30, 1511-1520	3	12
361	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
360	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	8.9	28
359	Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. *Journal of Power Sources*, **2018**, 408, 1-6	8.9	18
358	DNA-Mediated Nanoscale Metal-Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. *Analytical Chemistry*, **2018**, 90, 12284-12291	7.8	59
357	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	8.5	10
356	Buckypaper bioelectrodes: emerging materials for implantable and wearable biofuel cells. *Energy and Environmental Science*, **2018**, 11, 1670-1687	35.4	87
355	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
354	Polymerization amplified SPR-DNA assay on noncovalently functionalized graphene. *Biosensors and Bioelectronics*, **2017**, 89, 319-325	11.8	13
353	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
352	Carbon-Nanotube-Supported Bio-Inspired Nickel Catalyst and Its Integration in Hybrid Hydrogen/Air Fuel Cells. *Angewandte Chemie*, **2017**, 129, 1871-1875	3.6	12
351	Nanostructured photoactivatable electrode surface based on pyrene diazirine. *Electrochemistry Communications*, **2017**, 80, 5-8	5.1	7
350	Enhanced Electrochemiluminescence of One-Dimensional Self-Assembled Porphyrin Hexagonal Nanoprisms. *ACS Applied Materials & Interfaces*, **2017**, 9, 20904-20912	9.5	33

349	In situ formed copper nanoparticles templated by TdT-mediated DNA for enhanced SPR sensor-based DNA assay. *Biosensors and Bioelectronics*, **2017**, 97, 1-7	11.8	24
348	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
347	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	11.8	27
346	Hydrazine Electrooxidation with PdNPs and Its Application for a Hybrid Self-Powered Sensor and N2H4Decontamination. *Journal of the Electrochemical Society*, **2017**, 164, H3052-H3057	3.9	8
345	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	16.4	23
344	Graphene-based Biosensors for Dopamine Determination. *Procedia Technology*, **2017**, 27, 106-107		10
343	Towards a Versatile Photoreactive Platform for Biosensing Applications. *Journal of Analysis and Testing*, **2017**, 1, 1	3.2	1
342	Assembly and Stacking of Flow-through Enzymatic Bioelectrodes for High Power Glucose Fuel Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 23836-23842	9.5	32
341	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/O biofuel cells. *Biosensors and Bioelectronics*, **2017**, 87, 957-963	11.8	36
340	Flotation Assembly of Large-Area Ultrathin MWCNT Nanofilms for Construction of Bioelectrodes. *Nanomaterials*, **2017**, 7,	5.4	3
339	Synergetic Effects of Combined Nanomaterials for Biosensing Applications. *Sensors*, **2017**, 17,	3.8	34
338	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
337	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
336	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	3.8	19
335	Fluorescent and redox tetrazine films by host-guest immobilization of tetrazine derivatives within poly(pyrrole-Ecyclodextrin) films. *Journal of Electroanalytical Chemistry*, **2016**, 781, 36-40	4.1	11
334	Polyoxometalate [PMo11O39]7carbon nanocomposites for sensitive amperometric detection of nitrite. *Electrochimica Acta*, **2016**, 222, 402-408	6.7	20
333	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
332	Redox-Active Carbohydrate-Coated Nanoparticles: Self-Assembly of a Cyclodextrin-Polystyrene Glycopolymer with Tetrazine-Naphthalimide. *Langmuir*, **2016**, 32, 11939-11945	4	17

331	Enzymatic versus Electrocatalytic Oxidation of NADH at Carbon-Nanotube Electrodes Modified with Glucose Dehydrogenases: Application in a Bucky-Paper-Based Glucose Enzymatic Fuel Cell. *ChemElectroChem*, **2016**, 3, 2058-2062	4.3	14
330	Highly Sensitive Bisphenol-A Electrochemical Aptasensor Based on Poly(Pyrrole-Nitrilotriacetic Acid)-Aptamer Film. *Analytical Chemistry*, **2016**, 88, 7268-73	7.8	33
329	Robust bifunctional buckypapers from carbon nanotubes and polynorbornene copolymers for flexible engineering of enzymatic bioelectrodes. *Carbon*, **2016**, 107, 542-547	10.4	19
328	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
327	Glucose fuel cell based on carbon nanotube-supported pyrene–metalloporphyrin catalysts. *Journal of Materials Chemistry A*, **2016**, 4, 10635-10640	13	26
326	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
325	Vibrio cholerae detection: Traditional assays, novel diagnostic techniques and biosensors. *TrAC - Trends in Analytical Chemistry*, **2016**, 79, 199-209	14.6	17
324	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
323	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
322	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
321	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	11.8	2
320	Cubic PdNP-based air-breathing cathodes integrated in glucose hybrid biofuel cells. *Nanoscale*, **2016**, 8, 10433-40	7.7	11
319	A label-free photoelectrochemical cocaine aptasensor based on an electropolymerized ruthenium-intercalator complex. *Electrochimica Acta*, **2016**, 219, 82-87	6.7	8
318	Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. *Cellular and Molecular Life Sciences*, **2015**, 72, 941-52	10.3	125
317	High performance miniature glucose/O2 fuel cell based on porous silicon anion exchange membrane. *Electrochemistry Communications*, **2015**, 54, 10-13	5.1	14
316	Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. *Chemical Communications*, **2015**, 51, 14574-7	5.8	11
315	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
314	Mass effect of redox reactions: A novel mode for surface plasmon resonance-based bioanalysis. *Biosensors and Bioelectronics*, **2015**, 74, 183-9	11.8	5

313	Biofunctionalizable flexible bucky paper by combination of multi-walled carbon nanotubes and polynorbornene-pyrene Application to the bioelectrocatalytic reduction of oxygen. *Carbon*, **2015**, 93, 713-718	10.4	16
312	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
311	A H2/O2 enzymatic fuel cell as a sustainable power for a wireless device. *Electrochemistry Communications*, **2015**, 60, 216-220	5.1	32
310	Ferrocyanide-Ferricyanide Redox Couple Induced Electrochemiluminescence Amplification of Carbon Dots for Ultrasensitive Sensing of Glutathione. *Analytical Chemistry*, **2015**, 87, 11150-6	7.8	65
309	Magnetic zirconium hexacyanoferrate(II) nanoparticle as tracing tag for electrochemical DNA assay. *Analytical Chemistry*, **2015**, 87, 9093-100	7.8	39
308	Simultaneous Determination of Ascorbic and Uric Acids in Urine Using an Innovative Electrochemical Sensor Based on Cyclodextrin. *Analytical Letters*, **2015**, 48, 89-99	2.2	8
307	Layer-by-layer scaffold formation using magnetic attraction between HiPCO single-walled carbon nanotubes and magnetic nanoparticles: Application for high performance immunosensors. *Carbon*, **2015**, 81, 731-738	10.4	4
306	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
305	First Occurrence of Tetrazines in Aqueous Solution: Electrochemistry and Fluorescence. *ChemPhysChem*, **2015**, 16, 3695-9	3.2	13
304	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
303	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
302	Biomimetic enzymatic high-potential electrocatalytic reduction of hydrogen peroxide on a functionalized carbon nanotube electrode. *Chemical Science*, **2015**, 6, 5139-5143	9.4	29
301	Synthesis and electrochemical characterization of original TEMPO functionalized multiwall carbon nanotube materials: Application to iron (II) detection. *Electrochemistry Communications*, **2015**, 60, 131-134	5.1	11
300	Ferricyanide confined into the integrative system of pyrrolic surfactant and SWCNTs: The enhanced electrochemial sensing of paracetamol. *Electrochimica Acta*, **2015**, 186, 16-23	6.7	11
299	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
298	Chemically reduced electrospun polyacrilonitrile arbon nanotube nanofibers hydrogels as electrode material for bioelectrochemical applications. *Carbon*, **2015**, 87, 233-238	10.4	24
297	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
296	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

295	Towards glucose biofuel cells implanted in human body for powering artificial organs: Review. *Electrochemistry Communications*, **2014**, 38, 19-23	5.1	217
294	Biofunctionalization of multiwalled carbon nanotubes by electropolymerized poly(pyrrole-concanavalin A) films. *Chemistry - A European Journal*, **2014**, 20, 13561-4	4.8	9
293	Unusual Fe(CN)□?/□ capture induced by synergic effect of electropolymeric cationic surfactant and graphene: characterization and biosensing application. *ACS Applied Materials & Interfaces*, **2014**, 6, 21161-6	9.5	3
292	Permeability improvements of electropolymerized polypyrrole films using dissolvable nano-CaCO3 particle templates. *Physical Chemistry Chemical Physics*, **2014**, 16, 5052-5	3.6	2
291	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	7.3	38
290	Supramolecular immobilization of bio-entities for bioelectrochemical applications. *New Journal of Chemistry*, **2014**, 38, 5173-5180	3.6	13
289	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
288	Polypyrrolic bipyridine bis(phenantrolinequinone) Ru(II) complex/carbon nanotube composites for NAD-dependent enzyme immobilization and wiring. *Analytical Chemistry*, **2014**, 86, 4409-15	7.8	23
287	From gold porphyrins to gold nanoparticles: catalytic nanomaterials for glucose oxidation. *Nanoscale*, **2014**, 6, 8556-60	7.7	18
286	Electrochemical nanopatterning of an electrogenerated photosensitive poly-[trisbipyridinyl-pyrrole ruthenium(II)] metallopolymer by nanosphere lithography. *Electrochemistry Communications*, **2014**, 46, 75-78	5.1	10
285	Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer. *Chemical Science*, **2014**, 5, 2885-2888	9.4	43
284	Biopolymeric receptor for peptide recognition by molecular imprinting approach--synthesis, characterization and application. *Materials Science and Engineering C*, **2014**, 45, 383-94	8.3	12
283	Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. *Chemistry of Materials*, **2014**, 26, 1807-1812	9.6	40
282	Graphene/clay composite electrode formed by exfoliating graphite with Laponite for simultaneous determination of ascorbic acid, dopamine, and uric acid. *Monatshefte F□ Chemie*, **2014**, 145, 1389-1394	1.4	8
281	MWCNT-supported phthalocyanine cobalt as air-breathing cathodic catalyst in glucose/O2 fuel cells. *Journal of Power Sources*, **2014**, 255, 24-28	8.9	31
280	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, 1141-7	4.4	18
279	Enzymatic Fuel Cells: From Design to Implantation in Mammals **2014**, 347-362		2
278	Label-free photoelectrochemical detection of double-stranded HIV DNA by means of a metallointercalator-functionalized electrogenerated polymer. *Chemistry - A European Journal*, **2014**, 20, 15555-60	4.8	15

277	Nanomaterials for biosensing applications: a review. *Frontiers in Chemistry*, **2014**, 2, 63	5	587
276	Recent advances in carbon nanotube-based enzymatic fuel cells. *Frontiers in Bioengineering and Biotechnology*, **2014**, 2, 45	5.8	62
275	Nanotubes and nanoparticles based 3D scaffolds for the construction of high performance Biosensors. *Materials Research Society Symposia Proceedings*, **2014**, 1700, 97-102		
274	Carbon Nanotube Matrices for Enzymatic Glucose Biofuel Cells: Shapes and Growth **2014**, 1-10		1
273	Biofuel Cells **2013**, 409-423		1
272	A Solid-State Electrochemiluminescence Ethanol Biosensor Based on Electrogenerated Poly(pyrrole-tris(2,2?-bipyridyl)ruthenium(II)) Film/Alcohol Dehydrogenase/Laponite Composite. *Electroanalysis*, **2013**, 25, 697-702	3	7
271	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
270	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	4.1	6
269	Flexible metallization of electrospun nanofibers: Dramatically enhanced solid-state electrochemistry and electrochemiluminescence of the immobilized tris(2,2?-bipyridyl)ruthenium(II). *Sensors and Actuators B: Chemical*, **2013**, 181, 159-165	8.5	6
268	Impedimetric biosensor for cancer cell detection. *Electrochemistry Communications*, **2013**, 37, 36-39	5.1	27
267	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	5.1	21
266	Single glucose biofuel cells implanted in rats power electronic devices. *Scientific Reports*, **2013**, 3, 1516	4.9	261
265	Amperometric Sensors **2013**, 115-171		2
264	A double-walled carbon nanotube-based glucose/H2O2 biofuel cell operating under physiological conditions. *Electrochemistry Communications*, **2013**, 34, 105-108	5.1	46
263	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	4.1	10
262	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
261	Nanomaterials for Enzyme Biofuel Cells **2013**, 49-66		
260	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

259	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
258	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
257	3D-nanostructured scaffold electrodes based on single-walled carbon nanotubes and nanodiamonds for high performance biosensors. *Carbon*, **2013**, 61, 349-356	10.4	18
256	Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film. *Biosensors and Bioelectronics*, **2013**, 41, 90-5	11.8	67
255	TiO2 nanocrystals electrochemiluminescence quenching by biological enlarged nanogold particles and its application for biosensing. *Biosensors and Bioelectronics*, **2013**, 39, 342-5	11.8	45
254	High sensitive trypsin activity evaluation applying a nanostructured QCM-sensor. *Biosensors and Bioelectronics*, **2013**, 41, 862-6	11.8	29
253	Prussian blue-functionalised graphene in the amperometric detection of peroxide and hydrazine **2013**, 01, 58-62		2
252	Multiwalled Carbon Nanotube-CaCO3 Nanoparticle Composites for the Construction of a Tyrosinase-Based Amperometric Dopamine Biosensor. *Electroanalysis*, **2013**, 25, 613-619	3	23
251	Biofunctionalization of multiwalled carbon nanotubes by irradiation of electropolymerized poly(pyrrole-diazirine) films. *Chemistry - A European Journal*, **2013**, 19, 9639-43	4.8	15
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