# Michael Holzinger

## List of Publications by Citations



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|---|---|---|---|
| 133 papers | 8,256 citations | 44 h-index | 89 g-index |
| 143 ext. papers | 8,978 ext. citations | 8.2 avg, IF | 6.18 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 133 | Organic functionalization of carbon nanotubes. *Journal of the American Chemical Society*, **2002**, 124, 760-76 | 16.4 | 1062 |
| 132 | Nanomaterials for biosensing applications: a review. *Frontiers in Chemistry*, **2014**, 2, 63 | 5 | 587 |
| 131 | Sidewall Functionalization of Carbon Nanotubes. *Angewandte Chemie - International Edition*, **2001**, 40, 4002-4005 | 16.4 | 514 |
| 130 | Functionalization of single-walled carbon nanotubes with (R-)oxycarbonyl nitrenes. *Journal of the American Chemical Society*, **2003**, 125, 8566-80 | 16.4 | 475 |
| 129 | Mediatorless high-power glucose biofuel cells based on compressed carbon nanotube-enzyme electrodes. *Nature Communications*, **2011**, 2, 370 | 17.4 | 457 |
| 128 | Single glucose biofuel cells implanted in rats power electronic devices. *Scientific Reports*, **2013**, 3, 1516 | 4.9 | 261 |
| 127 | Towards glucose biofuel cells implanted in human body for powering artificial organs: Review. *Electrochemistry Communications*, **2014**, 38, 19-23 | 5.1 | 217 |
| 126 | Carbon nanotube/enzyme biofuel cells. *Electrochimica Acta*, **2012**, 82, 179-190 | 6.7 | 192 |
| 125 | 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 |
| 124 | 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 |
| 123 | Synthesis of highly nitrogen-doped multi-walled carbon nanotubes. *Chemical Communications*, **2003**, 2542-3 | 5.8 | 158 |
| 122 | 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 |
| 121 | Electrosynthesized polymers for biosensing. *Chemical Society Reviews*, **2011**, 40, 2146-56 | 58.5 | 132 |
| 120 | Recent progress in oxygen-reducing laccase biocathodes for enzymatic biofuel cells. *Cellular and Molecular Life Sciences*, **2015**, 72, 941-52 | 10.3 | 125 |
| 119 | Enzymatic biosensors based on SWCNT-conducting polymer electrodes. *Analyst, The*, **2011**, 136, 1279-87 | 5 | 110 |
| 118 | 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 |
| 117 | [2+1] cycloaddition for cross-linking SWCNTs. *Carbon*, **2004**, 42, 941-947 | 10.4 | 103 |

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| 116 | Production of pure nanotube fibers using a modified wet-spinning method. *Carbon*, **2005**, 43, 2397-2400 | 10.4 | 102 |
| 115 | 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 |
| 114 | Buckypaper bioelectrodes: emerging materials for implantable and wearable biofuel cells. *Energy and Environmental Science*, **2018**, 11, 1670-1687 | 35.4 | 87 |
| 113 | Adamantane/beta-cyclodextrin affinity biosensors based on single-walled carbon nanotubes. *Biosensors and Bioelectronics*, **2009**, 24, 1128-34 | 11.8 | 84 |
| 112 | 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 |
| 111 | Simultaneous electrochemical determination of dopamine and paracetamol based on thin pyrolytic carbon films. *Analytical Methods*, **2012**, 4, 2048 | 3.2 | 74 |
| 110 | DMF-exfoliated graphene for electrochemical NADH detection. *Physical Chemistry Chemical Physics*, **2011**, 13, 7747-50 | 3.6 | 74 |
| 109 | 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 |
| 108 | On the Stacking Behavior of Functionalized Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry B*, **2002**, 106, 6374-6380 | 3.4 | 73 |
| 107 | A new purification method for single-wall carbon nanotubes (SWNTs). *Applied Physics A: Materials Science and Processing*, **2000**, 70, 599-602 | 2.6 | 73 |
| 106 | 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 |
| 105 | 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 |
| 104 | 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 |
| 103 | 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 |
| 102 | Freestanding HRP□Ox redox buckypaper as an oxygen-reducing biocathode for biofuel cell applications. *Energy and Environmental Science*, **2015**, 8, 2069-2074 | 35.4 | 63 |
| 101 | A synthetic redox biofilm made from metalloprotein-prion domain chimera nanowires. *Nature Chemistry*, **2017**, 9, 157-163 | 17.6 | 62 |
| 100 | Recent advances in carbon nanotube-based enzymatic fuel cells. *Frontiers in Bioengineering and Biotechnology*, **2014**, 2, 45 | 5.8 | 62 |
| 99 | 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 |

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| 98 | 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 |
| 97 | Electrocatalytic O2 Reduction at a Bio-inspired Mononuclear Copper Phenolato Complex Immobilized on a Carbon Nanotube Electrode. *Angewandte Chemie - International Edition*, **2016**, 55, 2517-20 | 16.4 | 54 |
| 96 | First comparative emission assay of single-wall carbon nanotubes--solutions and dispersions. *Chemical Communications*, **2003**, 1130-1 | 5.8 | 51 |
| 95 | 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 |
| 94 | 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 |
| 93 | Multiple functionalization of single-walled carbon nanotubes by dip coating. *Chemical Communications*, **2011**, 47, 2450-2 | 5.8 | 48 |
| 92 | 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 |
| 91 | 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 |
| 90 | A double-walled carbon nanotube-based glucose/H2O2 biofuel cell operating under physiological conditions. *Electrochemistry Communications*, **2013**, 34, 105-108 | 5.1 | 46 |
| 89 | 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 |
| 88 | 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 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. *Chemistry of Materials*, **2014**, 26, 1807-1812 | 9.6 | 40 |
| 83 | 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 |
| 82 | 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 |
| 81 | Direct electron transfer between tyrosinase and multi-walled carbon nanotubes for bioelectrocatalytic oxygen reduction. *Electrochemistry Communications*, **2012**, 20, 19-22 | 5.1 | 39 |

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| 80 | 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 |
| 79 | Aqueous dispersions of SWCNTs using pyrrolic surfactants for the electro-generation of homogeneous nanotube composites. Application to the design of an amperometric biosensor. *Journal of Materials Chemistry*, **2008**, 18, 5129 | | 36 |
| 78 | 13C NMR investigation of carbon nanotubes and derivatives. *Current Applied Physics*, **2001**, 1, 149-155 | 2.6 | 36 |
| 77 | Carbon science perspective in 2020: Current research and future challenges. *Carbon*, **2020**, 161, 373-391 | 10.4 | 35 |
| 76 | Synergetic Effects of Combined Nanomaterials for Biosensing Applications. *Sensors*, **2017**, 17, | 3.8 | 34 |
| 75 | A H2/O2 enzymatic fuel cell as a sustainable power for a wireless device. *Electrochemistry Communications*, **2015**, 60, 216-220 | 5.1 | 32 |
| 74 | 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 |
| 73 | 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 |
| 72 | Pyrene-adamantane-□cyclodextrin: An efficient host□guest system for the biofunctionalization of SWCNT electrodes. *Carbon*, **2011**, 49, 2571-2578 | 10.4 | 31 |
| 71 | Biotin-□cyclodextrin: a new host-guest system for the immobilization of biomolecules. *Langmuir*, **2012**, 28, 12569-74 | 4 | 30 |
| 70 | Design of carbon nanotube-polymer frameworks by electropolymerization of SWCNT-pyrrole derivatives. *Electrochimica Acta*, **2008**, 53, 3948-3954 | 6.7 | 30 |
| 69 | 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 |
| 68 | 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 |
| 67 | Impedimetric biosensor for cancer cell detection. *Electrochemistry Communications*, **2013**, 37, 36-39 | 5.1 | 27 |
| 66 | Immobilization of biotinylated biomolecules onto electropolymerized poly(pyrrole-nitrilotriacetic acid)□Cu2+ film. *Electrochemistry Communications*, **2010**, 12, 1287-1290 | 5.1 | 27 |
| 65 | Seitenwandfunktionalisierung von Kohlenstoff-Nanoröhren. *Angewandte Chemie*, **2001**, 113, 4132-4136 | 3.6 | 27 |
| 64 | Glucose fuel cell based on carbon nanotube-supported pyrene□metalloporphyrin catalysts. *Journal of Materials Chemistry A*, **2016**, 4, 10635-10640 | 13 | 26 |
| 63 | Pyrene functionalized single-walled carbon nanotubes as precursors for high performance biosensors. *Electrochimica Acta*, **2010**, 55, 7800-7803 | 6.7 | 25 |

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| 62 | Enhanced Direct Electron Transfer of a Multihemic Nitrite Reductase on Single-walled Carbon Nanotube Modified Electrodes. *Electroanalysis*, **2010**, 22, 2973-2978 | 3 | 25 |
| 61 | Chemically reduced electrospun polyacrilonitrile/carbon nanotube nanofibers hydrogels as electrode material for bioelectrochemical applications. *Carbon*, **2015**, 87, 233-238 | 10.4 | 24 |
| 60 | 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 |
| 59 | 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 |
| 58 | Polyoxometalate [PMo11O39]7-/carbon nanocomposites for sensitive amperometric detection of nitrite. *Electrochimica Acta*, **2016**, 222, 402-408 | 6.7 | 20 |
| 57 | Sidewall Functionalization of Carbon Nanotubes This work was supported by the European Union under the 5th Framework Research Training Network 1999, HPRNT 1999-00011 FUNCARS.. *Angewandte Chemie - International Edition*, **2001**, 40, 4002-4005 | 16.4 | 20 |
| 56 | 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 |
| 55 | Molecular engineering of the bio/nano-interface for enzymatic electrocatalysis in fuel cells. *Sustainable Energy and Fuels*, **2018**, 2, 2555-2566 | 5.8 | 19 |
| 54 | From gold porphyrins to gold nanoparticles: catalytic nanomaterials for glucose oxidation. *Nanoscale*, **2014**, 6, 8556-60 | 7.7 | 18 |
| 53 | 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 |
| 52 | 3D-nanostructured scaffold electrodes based on single-walled carbon nanotubes and nanodiamonds for high performance biosensors. *Carbon*, **2013**, 61, 349-356 | 10.4 | 18 |
| 51 | Poly(brilliant cresyl blue) electrogenerated on single-walled carbon nanotubes modified electrode and its application in mediated biosensing system. *Sensors and Actuators B: Chemical*, **2011**, 152, 14-20 | 8.5 | 18 |
| 50 | Electrochemical fabrication of novel fluorescent polymeric film: Poly(pyrrole-pyrene). *Electrochemistry Communications*, **2008**, 10, 1423-1426 | 5.1 | 18 |
| 49 | Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. *Journal of Power Sources*, **2018**, 408, 1-6 | 8.9 | 18 |
| 48 | Amperometric biosensors based on biotinylated single-walled carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6042-6 | 1.3 | 17 |
| 47 | 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 |
| 46 | Electrocatalytic O2 Reduction at a Bio-inspired Mononuclear Copper Phenolato Complex Immobilized on a Carbon Nanotube Electrode. *Angewandte Chemie*, **2016**, 128, 2563-2566 | 3.6 | 15 |
| 45 | High performance miniature glucose/O2 fuel cell based on porous silicon anion exchange membrane. *Electrochemistry Communications*, **2015**, 54, 10-13 | 5.1 | 14 |

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| 44 | 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 |
| 43 | Characterization of multi-walled carbon nanotube electrodes functionalized by electropolymerized tris(pyrrole-ether bipyridine) ruthenium (II). *Electrochimica Acta*, **2011**, 56, 3633-3640 | 6.7 | 14 |
| 42 | Supramolecular immobilization of bio-entities for bioelectrochemical applications. *New Journal of Chemistry*, **2014**, 38, 5173-5180 | 3.6 | 13 |
| 41 | Interprotein Electron Transfer between FeS-Protein Nanowires and Oxygen-Tolerant NiFe Hydrogenase. *Angewandte Chemie - International Edition*, **2017**, 56, 7774-7778 | 16.4 | 12 |
| 40 | Comparison of Commercial and Lab-made MWCNT Buckypaper: Physicochemical Properties and Bioelectrocatalytic O2 Reduction. *Electroanalysis*, **2018**, 30, 1511-1520 | 3 | 12 |
| 39 | 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 |
| 38 | Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. *Chemical Communications*, **2015**, 51, 14574-7 | 5.8 | 11 |
| 37 | 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 |
| 36 | Cubic PdNP-based air-breathing cathodes integrated in glucose hybrid biofuel cells. *Nanoscale*, **2016**, 8, 10433-40 | 7.7 | 11 |
| 35 | Electrochemical nanopatterning of an electrogenerated photosensitive poly-[trisbipyridinyl-pyrrole ruthenium(II)] metallopolymer by nanosphere lithography. *Electrochemistry Communications*, **2014**, 46, 75-78 | 5.1 | 10 |
| 34 | Photoelectrochemically-assisted biofuel cell constructed by redox complex and g-CN coated MWCNT bioanode. *Biosensors and Bioelectronics*, **2020**, 169, 112601 | 11.8 | 10 |
| 33 | 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 |
| 32 | Ropes of Carbon Nanotubes Intramolecular Junctions. *Synthetic Metals*, **2003**, 137, 1203-1204 | 3.6 | 9 |
| 31 | Electrochemical Characterization of Biotin Functionalized and Regular Single-Walled Carbon Nanotube Coatings. Application to Amperometric Glucose Biosensors. *Sensor Letters*, **2009**, 7, 801-805 | 0.9 | 9 |
| 30 | 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 |
| 29 | 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 |
| 28 | Tuning the redox potential of vitamin K derivatives by oxidative functionalization using a Ag(i)/GO catalyst. *Chemical Communications*, **2017**, 53, 8890-8893 | 5.8 | 8 |
| 27 | Biosensors Based on Electropolymerized Films **2010**, 189-213 | | 7 |

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| 26 | Purification and Functionalisation of Nitrogen-Doped Single-Walled Carbon Nanotubes. *AIP Conference Proceedings*, **2005**, | 0 | 6 |
| 25 | In situ synthesis of stable mixed ligand Fe2+ complexes on bipyridinyl functionalized electrodes and nanotube supports. *Chemical Communications*, **2012**, 48, 6121-3 | 5.8 | 5 |
| 24 | 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 |
| 23 | Polymers and nano-objects, a rational combination for developing health monitoring biosensors. *Sensors and Actuators B: Chemical*, **2021**, 348, 130700 | 8.5 | 4 |
| 22 | Flotation Assembly of Large-Area Ultrathin MWCNT Nanofilms for Construction of Bioelectrodes. *Nanomaterials*, **2017**, 7, | 5.4 | 3 |
| 21 | Novel purification procedure and derivatization method of single-walled carbon nanotubes (SWNTs). *AIP Conference Proceedings*, **2000**, | 0 | 3 |
| 20 | 1. Buckypapers for bioelectrochemical applications **2019**, 1-22 | | 3 |
| 19 | Interprotein Electron Transfer between FeS-Protein Nanowires and Oxygen-Tolerant NiFe Hydrogenase. *Angewandte Chemie*, **2017**, 129, 7882-7886 | 3.6 | 2 |
| 18 | Permeability improvements of electropolymerized polypyrrole films using dissolvable nano-CaCO3 particle templates. *Physical Chemistry Chemical Physics*, **2014**, 16, 5052-5 | 3.6 | 2 |
| 17 | Enzymatic Fuel Cells: From Design to Implantation in Mammals **2014**, 347-362 | | 2 |
| 16 | Prussian blue-functionalised graphene in the amperometric detection of peroxide and hydrazine **2013**, 01, 58-62 | | 2 |
| 15 | Characterization of oxidized SWCNTs by XPS. *AIP Conference Proceedings*, **2002**, | 0 | 2 |
| 14 | Preparation and characterisation of LaNixCo1O3 thin films on polycrystalline Al2O3-substrates. *Journal of the European Ceramic Society*, **1999**, 19, 827-829 | 6 | 2 |
| 13 | Electrochemical modification at multiwalled carbon nanotube electrodes with Azure A for FAD-glucose dehydrogenase wiring: structural optimization to enhance catalytic activity and stability. *JPhys Energy*, **2021**, 3, 024004 | 4.9 | 2 |
| 12 | Purification of Single-Walled Carbon Nanotubes Studied by STM and STS. *AIP Conference Proceedings*, **2003**, | 0 | 1 |
| 11 | Synthesis of C and CNx Nanotubes, Using the Aerosol Method. *Materials Research Society Symposia Proceedings*, **2003**, 772, 261 | | 1 |
| 10 | Route for Single-Walled Nanotube-Polymer Composites. *AIP Conference Proceedings*, **2004**, | 0 | 1 |
| 9 | Carbon Nanotube Matrices for Enzymatic Glucose Biofuel Cells: Shapes and Growth **2014**, 1-10 | | 1 |

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|---|---|---|---|
| 8 | Enzymatic Glucose Biofuel Cells: Shapes and Growth of Carbon Nanotube Matrices1-10 | | 1 |
| 7 | Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for High-Performance Biocathodes. *ChemElectroChem*, **2020**, 7, 4685-4689 | 4.3 | 1 |
| 6 | Insights into carbon nanotube-assisted electro-oxidation of polycyclic aromatic hydrocarbons for mediated bioelectrocatalysis. *Chemical Communications*, **2021**, 57, 8957-8960 | 5.8 | 0 |
| 5 | Molecular Design of Glucose Biofuel Cell Electrodes **2019**, 287-306 | | |
| 4 | Nanotubes and nanoparticles based 3D scaffolds for the construction of high performance Biosensors. *Materials Research Society Symposia Proceedings*, **2014**, 1700, 97-102 | | |
| 3 | Nanomaterials for Enzyme Biofuel Cells **2013**, 49-66 | | |
| 2 | Chapter 18 Immunosensors for clinical and environmental applications based on electropolymerized films: analysis of cholera toxin and hepatitis C virus antibodies in water and serum. *Comprehensive Analytical Chemistry*, **2007**, 49, 381-402 | 1.9 | |
| 1 | First Eurasian conference on nanotechnology, Baku, Azerbaijan photoelectrochemically-assisted bioanode constructed by Ru-complex and g-C3N4 coated MWCNT electrode. *Materials Today: Proceedings*, **2021**, 42, 1538-1541 | 1.4 | |