Donal Leech

List of Publications by Citations

155 papers	6,182 citations	44 h-index	72 g-index
163 ext. papers	6,759 ext. citations	6.8 avg, IF	6.01 L-index

#	Paper	IF	Citations
155	Enzymatic fuel cells: Recent progress. *Electrochimica Acta*, **2012**, 84, 223-234	6.7	361
154	Electrochemical analysis of the interactions of laccase mediators with lignin model compounds. *Biochimica Et Biophysica Acta - General Subjects*, **1998**, 1379, 381-90	4	335
153	The ins and outs of microorganism–electrode electron transfer reactions. *Nature Reviews Chemistry* , **2017**, 1,	34.6	276
152	A laccase–glucose oxidase biofuel cell prototype operating in a physiological buffer. *Electrochimica Acta*, **2006**, 51, 5187-5192	6.7	177
151	Application of Colloidal Gold in Protein Immobilization, Electron Transfer, and Biosensing. *Analytical Letters*, **2003**, 36, 1-19	2.2	160
150	Bioelectrochemical Haber-Bosch Process: An Ammonia-Producing H /N Fuel Cell. *Angewandte Chemie - International Edition*, **2017**, 56, 2680-2683	16.4	155
149	Targetting redox polymers as mediators for laccase oxygen reduction in a membrane-less biofuel cell. *Electrochemistry Communications*, **2004**, 6, 237-241	5.1	141
148	Nitrogenase bioelectrocatalysis: heterogeneous ammonia and hydrogen production by MoFe protein. *Energy and Environmental Science*, **2016**, 9, 2550-2554	35.4	139
147	Geobacter sulfurreducens biofilms developed under different growth conditions on glassy carbon electrodes: insights using cyclic voltammetry. *Chemical Communications*, **2010**, 46, 4758-60	5.8	139
146	Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode. *Analytica Chimica Acta*, **1999**, 378, 151-157	6.6	108
145	Characterisation of an antibody coated microcantilever as a potential immuno-based biosensor. *Biosensors and Bioelectronics*, **2002**, 17, 201-7	11.8	104
144	Mediated electron transfer in glucose oxidising enzyme electrodes for application to biofuel cells: recent progress and perspectives. *Physical Chemistry Chemical Physics*, **2013**, 15, 4859-69	3.6	99
143	Three-dimensional microchanelled electrodes in flow-through configuration for bioanode formation and current generation. *Energy and Environmental Science*, **2011**, 4, 4201	35.4	99
142	Characterization of different FAD-dependent glucose dehydrogenases for possible use in glucose-based biosensors and biofuel cells. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2069-77	4.4	85
141	Characterization of nanoporous gold electrodes for bioelectrochemical applications. *Langmuir*, **2012**, 28, 2251-61	4	83
140	Effect of electrolytes on the electrochemical behaviour of 11-(ferrocenylcarbonyloxy)undecanethiol SAMs on gold disk electrodes. *Physical Chemistry Chemical Physics*, **1999**, 1, 1549-1554	3.6	83
139	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. *ACS Applied Materials & Interfaces*, **2018**, 10, 7107-7116	9.5	79

138	Microbial analysis of anodic biofilm in a microbial fuel cell using slaughterhouse wastewater. *Bioelectrochemistry*, **2012**, 87, 164-71	5.6	78
137	Reagentless mediated laccase electrode for the detection of enzyme modulators. *Analytical Chemistry*, **1997**, 69, 882-6	7.8	75
136	Electron-transfer studies with a new flavin adenine dinucleotide dependent glucose dehydrogenase and osmium polymers of different redox potentials. *Analytical Chemistry*, **2012**, 84, 334-41	7.8	72
135	Designing stable redox-active surfaces: chemical attachment of an osmium complex to glassy carbon electrodes prefunctionalized by electrochemical reduction of an in situ-generated aryldiazonium cation. *Langmuir*, **2008**, 24, 6351-8	4	72
134	Redox polymer and probe DNA tethered to gold electrodes for enzyme-amplified amperometric detection of DNA hybridization. *Analytical Chemistry*, **2006**, 78, 2710-6	7.8	71
133	Electrochemical study of a metallothionein modified gold disk electrode and its action on Hg2+ cations. *Journal of Electroanalytical Chemistry*, **2000**, 484, 150-156	4.1	66
132	Photo-electrochemical communication between cyanobacteria (Leptolyngbia sp.) and osmium redox polymer modified electrodes. *Physical Chemistry Chemical Physics*, **2014**, 16, 24676-80	3.6	64
131	Extracellular Electron Transfer by the Gram-Positive Bacterium Enterococcus faecalis. *Biochemistry*, **2018**, 57, 4597-4603	3.2	62
130	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. *Biosensors and Bioelectronics*, **2017**, 90, 96-102	11.8	61
129	Improved stability of redox enzyme layers on glassy carbon electrodes via covalent grafting. *Electrochemistry Communications*, **2008**, 10, 835-838	5.1	57
128	Affinity biosensors. *Chemical Society Reviews*, **1994**, 23, 205	58.5	57
127	Performance of a Glucose/O2 Enzymatic Biofuel Cell Containing a Mediated Melanocarpus albomyces Laccase Cathode in a Physiological Buffer. *Fuel Cells*, **2009**, 9, 79-84	2.9	56
126	Wiring of pyranose dehydrogenase with osmium polymers of different redox potentials. *Bioelectrochemistry*, **2010**, 80, 38-42	5.6	56
125	Reagentless Tyrosinase Enzyme Electrodes: Effects of Enzyme Loading, Electrolyte pH, Ionic Strength, and Temperature. *Analytical Chemistry*, **1997**, 69, 4108-4112	7.8	56
124	Increasing Redox Potential, Redox Mediator Activity, and Stability in a Fungal Laccase by Computer-Guided Mutagenesis and Directed Evolution. *ACS Catalysis*, **2019**, 9, 4561-4572	13.1	54
123	Photocurrent generation from thylakoid membranes on osmium-redox-polymer-modified electrodes. *ChemSusChem*, **2015**, 8, 990-3	8.3	54
122	Self-powered wireless carbohydrate/oxygen sensitive biodevice based on radio signal transmission. *PLoS ONE*, **2014**, 9, e109104	3.7	52
121	Charge transport through Geobacter sulfurreducens biofilms grown on graphite rods. *Langmuir*, **2012**, 28, 7904-13	4	52

120	A comparison of redox polymer and enzyme co-immobilization on carbon electrodes to provide membrane-less glucose/O2 enzymatic fuel cells with improved power output and stability. *Biosensors and Bioelectronics*, **2011**, 30, 294-9	11.8	52
119	Photoelectrochemical Wiring of Paulschulzia pseudovolvox (Algae) to Osmium Polymer Modified Electrodes for Harnessing Solar Energy. *Advanced Energy Materials*, **2015**, 5, 1501100	21.8	51
118	Fully Enzymatic Membraneless Glucose|Oxygen Fuel Cell That Provides 0.275 mA cm(-2) in 5 mM Glucose, Operates in Human Physiological Solutions, and Powers Transmission of Sensing Data. *Analytical Chemistry*, **2016**, 88, 2156-63	7.8	50
117	Optimisation of a reagentless laccase electrode for the detection of the inhibitor azide. *Analyst, The*, **1998**, 123, 1971-4	5	48
116	Host□Guest Interaction at a Self-Assembled Monolayer/Solution Interface: An Electrochemical Analysis of the Inclusion of 11-(Ferrocenylcarbonyloxy)undecanethiol by Cyclodextrins. *Langmuir*, **1998**, 14, 300-306	4	47
115	Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)2poly-(4-vinylpyridine)10Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column. *Analytica Chimica Acta*, **1996**, 319, 111-120	6.6	47
114	Amperometric Detection of Catecholamine Neurotransmitters Using Electrocatalytic Substrate Recycling at a Laccase Electrode. *Electroanalysis*, **2005**, 17, 113-119	3	45
113	Wiring of Photosystem I and Hydrogenase on an Electrode for Photoelectrochemical H2 Production by using Redox Polymers for Relatively Positive Onset Potential. *ChemElectroChem*, **2017**, 4, 90-95	4.3	44
112	Synthesis by radical cyclization and cytotoxicity of highly potent bioreductive alicyclic ring fused [1,2-a]benzimidazolequinones. *Chemistry - A European Journal*, **2007**, 13, 3218-26	4.8	44
111	Paper-based microfluidic biofuel cell operating under glucose concentrations within physiological range. *Biosensors and Bioelectronics*, **2017**, 90, 475-480	11.8	43
110	Optimization of a membraneless glucose/oxygen enzymatic fuel cell based on a bioanode with high coulombic efficiency and current density. *ChemPhysChem*, **2013**, 14, 2260-9	3.2	42
109	Evaluation of performance and stability of biocatalytic redox films constructed with different copper oxygenases and osmium-based redox polymers. *Bioelectrochemistry*, **2009**, 76, 162-8	5.6	42
108	Improved microbial electrocatalysis with osmium polymer modified electrodes. *Chemical Communications*, **2012**, 48, 10183-5	5.8	41
107	Electrochemical communication between heterotrophically grown Rhodobacter capsulatus with electrodes mediated by an osmium redox polymer. *Bioelectrochemistry*, **2013**, 93, 30-6	5.6	41
106	Biocatalytic anode for glucose oxidation utilizing carbon nanotubes for direct electron transfer with glucose oxidase. *Electrochemistry Communications*, **2009**, 11, 2004-2007	5.1	41
105	Electroreduction of O2 at a mediated Melanocarpus albomyces laccase cathode in a physiological buffer. *Electrochemistry Communications*, **2008**, 10, 970-972	5.1	40
104	Supercapacitive Photo-Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing. *Advanced Energy Materials*, **2017**, 7, 1602285	21.8	37
103	Electrochemical Communication Between Electrodes and Rhodobacter capsulatus Grown in Different Metabolic Modes. *Electroanalysis*, **2015**, 27, 118-127	3	37

102	Electrochemical communication between microbial cells and electrodes via osmium redox systems. *Biochemical Society Transactions*, **2012**, 40, 1330-5	5.1	37
101	A comparison of glucose oxidase and aldose dehydrogenase as mediated anodes in printed glucose/oxygen enzymatic fuel cells using ABTS/laccase cathodes. *Bioelectrochemistry*, **2012**, 87, 172-7	5.6	37
100	High-performance liquid chromatographic determination of phenols using a tyrosinase-based amperometric biosensor detection system. *Analyst, The*, **1996**, 121, 1885	5	37
99	Electron transfer from Proteus vulgaris to a covalently assembled, single walled carbon nanotube electrode functionalised with osmium bipyridine complex: application to a whole cell biosensor. *Biosensors and Bioelectronics*, **2011**, 26, 2383-9	11.8	35
98	Charge transport in films of Geobacter sulfurreducens on graphite electrodes as a function of film thickness. *Physical Chemistry Chemical Physics*, **2014**, 16, 9039-46	3.6	34
97	Coupling osmium complexes to epoxy-functionalised polymers to provide mediated enzyme electrodes for glucose oxidation. *Biosensors and Bioelectronics*, **2013**, 43, 30-7	11.8	34
96	Oxidation of lignin model compounds by organic and transition metal-based electron transfer mediators. *Chemical Communications*, **2002**, 1182-3	5.8	34
95	Crosslinked redox polymer enzyme electrodes containing carbon nanotubes for high and stable glucose oxidation current. *Physical Chemistry Chemical Physics*, **2012**, 14, 14667-72	3.6	33
94	Catalytic response of microbial biofilms grown under fixed anode potentials depends on electrochemical cell configuration. *Chemical Engineering Journal*, **2013**, 230, 532-536	14.7	32
93	A mediated glucose/oxygen enzymatic fuel cell based on printed carbon inks containing aldose dehydrogenase and laccase as anode and cathode. *Enzyme and Microbial Technology*, **2012**, 50, 181-7	3.8	31
92	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 3823-30	4.4	31
91	Mediated reagentless enzyme inhibition electrodes. *Biosensors and Bioelectronics*, **1998**, 13, 417-425	11.8	31
90	One-step fabrication of glucose sensors based on entrapment of glucose oxidase within poly(ester-sulfonic acid) coatings. *Analytica Chimica Acta*, **1991**, 245, 139-143	6.6	31
89	A glucose/oxygen enzymatic fuel cell based on redox polymer and enzyme immobilisation at highly-ordered macroporous gold electrodes. *Analyst, The*, **2012**, 137, 113-7	5	30
88	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. *Biosensors and Bioelectronics*, **2017**, 98, 421-427	11.8	29
87	Generation of electricity in microbial fuel cells at sub-ambient temperatures. *Journal of Power Sources*, **2011**, 196, 2676-2681	8.9	29
86	Improved synthesis of 4,4?-diamino-2,2?-bipyridine from 4,4?-dinitro-2,2?-bipyridine-N,N?-dioxide. *Tetrahedron Letters*, **2004**, 45, 121-123	2	29
85	The In Vivo Potential-Regulated Protective Protein of Nitrogenase in Azotobacter vinelandii Supports Aerobic Bioelectrochemical Dinitrogen Reduction In Vitro. *Journal of the American Chemical Society*, **2017**, 139, 9044-9052	16.4	28

84	Evaluation of Photocurrent Generation from Different Photosynthetic Organisms. *ChemElectroChem*, **2017**, 4, 412-417	4.3	27
83	Membraneless glucose/oxygen enzymatic fuel cells using redox hydrogel films containing carbon nanotubes. *ChemPhysChem*, **2013**, 14, 2302-7	3.2	27
82	A membrane-less enzymatic fuel cell with layer-by-layer assembly of redox polymer and enzyme over graphite electrodes. *Chemical Communications*, **2011**, 47, 11861-3	5.8	27
81	Electricity generation in single-chamber microbial fuel cells using a carbon source sampled from anaerobic reactors utilizing grass silage. *Bioresource Technology*, **2011**, 102, 404-10	11	27
80	Adsorption and Desorption of Electroactive Self-Assembled Thiolate Monolayers on Gold. *Langmuir* , **1999**, 15, 8170-8177	4	27
79	Recombinant pyranose dehydrogenase: A versatile enzyme possessing both mediated and direct electron transfer. *Electrochemistry Communications*, **2012**, 24, 120-122	5.1	26
78	Electrochemical wiring of the Gram-positive bacterium Enterococcus faecalis with osmium redox polymer modified electrodes. *Electrochemistry Communications*, **2017**, 75, 56-59	5.1	25
77	A stability comparison of redox-active layers produced by chemical coupling of an osmium redox complex to pre-functionalized gold and carbon electrodes. *Electrochimica Acta*, **2009**, 54, 1986-1991	6.7	25
76	Effect of composition of polymer backbone on spectroscopic and electrochemical properties of ruthenium(II) bis(2,2?-bipyridyl)containing 4-vinylpyridine/styrene copolymers. *Journal of Materials Chemistry*, **1991**, 1, 629-635		25
75	Effect of Multi-Walled Carbon Nanotubes on Glucose Oxidation by Glucose Oxidase or a Flavin-Dependent Glucose Dehydrogenase in Redox-Polymer-Mediated Enzymatic Fuel Cell Anodes. *ChemElectroChem*, **2014**, 1, 1988-1993	4.3	24
74	Biocatalytic fuel cells: A comparison of surface pre-treatments for anchoring biocatalytic redox films on electrode surfaces. *Journal of Electroanalytical Chemistry*, **2009**, 626, 111-115	4.1	24
73	Electrocatalysis and flow detection of alcohols at ruthenium dioxide-modified electrodes. *Electroanalysis*, **1991**, 3, 37-42	3	24
72	Glucose biosensor based on open-source wireless microfluidic potentiostat. *Sensors and Actuators B: Chemical*, **2019**, 290, 616-624	8.5	23
71	Electrocatalytic detection of streptomycin and related antibiotics at ruthenium dioxide modified graphite--epoxy composite electrodes. *Analyst, The*, **1990**, 115, 1447-50	5	23
70	Bioelectrochemical Haber-Bosch Process: An Ammonia-Producing H2/N2 Fuel Cell. *Angewandte Chemie*, **2017**, 129, 2724-2727	3.6	22
69	Does bioelectrochemical cell configuration and anode potential affect biofilm response?. *Biochemical Society Transactions*, **2012**, 40, 1308-14	5.1	22
68	Electrochemistry of poly(vinylferrocene) formed by directelectrochemical reduction at a glassy carbonelectrode. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 1371-1375		22
67	[Os(bpy)2(PVI)10Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH. *Analytica Chimica Acta*, **1997**, 345, 51-58	6.6	22

66	Electrocatalytical Oxidation and Determination of Dopamine at Redox Polymer/Nafion Modified Electrodes. *Analytical Letters*, **1999**, 32, 2951-2964	2.2	22
65	Electrically "wired" tyrosinase enzyme inhibition electrode for the detection of respiratory poisons. *Electroanalysis*, **1995**, 7, 952-957	3	22
64	Mediated glucose enzyme electrodes by cross-linking films of osmium redox complexes and glucose oxidase on electrodes. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 3807-12	4.4	21
63	An enzyme-amplified amperometric DNA hybridisation assay using DNA immobilised in a carboxymethylated dextran film anchored to a graphite surface. *Biosensors and Bioelectronics*, **2010**, 25, 1037-42	11.8	20
62	Glucose oxidation by osmium redox polymer mediated enzyme electrodes operating at low potential and in oxygen, for application to enzymatic fuel cells. *Electrochimica Acta*, **2015**, 182, 320-326	6.7	19
61	Sunlight photocurrent generation from thylakoid membranes on gold nanoparticle modified screen-printed electrodes. *Journal of Electroanalytical Chemistry*, **2018**, 816, 259-264	4.1	19
60	Tethering Osmium Complexes within Enzyme Films on Electrodes to Provide a Fully Enzymatic Membrane-Less Glucose/Oxygen Fuel Cell. *Journal of the Electrochemical Society*, **2013**, 160, G3165-G3170	2.9	19
59	Comparison of Glucose Oxidation by Crosslinked Redox Polymer Enzyme Electrodes Containing Carbon Nanotubes and a Range of Glucose Oxidising Enzymes. *Electroanalysis*, **2013**, 25, 94-100	3	19
58	Diazonium salt derivatives of osmium bipyridine complexes: Electrochemical grafting and characterisation of modified surfaces. *Electrochimica Acta*, **2011**, 56, 2213-2220	6.7	19
57	Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell. *Electroanalysis*, **2017**, 29, 1651-1657	3	17
56	Highly sensitive, stable and selective hydrogen peroxide amperometric biosensors based on peroxidases from different sources wired by Os-polymer: A comparative study. *Solid State Ionics*, **2018**, 314, 178-186	3.3	17
55	Engineering of pyranose dehydrogenase for application to enzymatic anodes in biofuel cells. *Physical Chemistry Chemical Physics*, **2015**, 17, 9074-81	3.6	17
54	Determination of nitrite based on mediated oxidation at a carbon paste electrode modified with a ruthenium polymer. *Talanta*, **1992**, 39, 443-7	6.2	16
53	The influence of surface composition of carbon nanotubes on the photobioelectrochemical activity of thylakoid bioanodes mediated by osmium-complex modified redox polymer. *Electrochimica Acta*, **2019**, 310, 20-25	6.7	15
52	[Os(bpy)2(PVP)10Cl]Cl polymer and Nafion dual-film modified graphite electrode for the amperometric determination of trace amounts of norepinephrine. *Analyst, The*, **1998**, 123, 2895-8	5	15
51	Mediated Enzyme Electrodes for Biological Fuel Cell and Biosensor Applications. *ECS Transactions*, **2008**, 13, 77-87	1	15
50	A glucose anode for enzymatic fuel cells optimized for current production under physiological conditions using a design of experiment approach. *Bioelectrochemistry*, **2015**, 106, 41-6	5.6	14
49	Further insights into the catalytical properties of deglycosylated pyranose dehydrogenase from Agaricus meleagris recombinantly expressed in Pichia pastoris. *Analytical Chemistry*, **2013**, 85, 9852-8	7.8	14

48	Electroactive biofilms on surface functionalized anodes: The anode respiring behavior of a novel electroactive bacterium, Desulfuromonas acetexigens. *Water Research*, **2020**, 185, 116284	12.5	14
47	Improved operational stability of mediated glucose enzyme electrodes for operation in human physiological solutions. *Bioelectrochemistry*, **2020**, 133, 107460	5.6	13
46	Enzyme-Amplified Amperometric Detection of DNA Using Redox Mediating Films on Gold Microelectrodes. *Electroanalysis*, **2009**, 21, 342-350	3	13
45	Use of Polymer Coatings to Enhance the Response of Redox-Polymer-Mediated Electrodes. *ChemElectroChem*, **2019**, 6, 1344-1349	4.3	13
44	Effect of individual plasma components on the performance of a glucose enzyme electrode based on redox polymer mediation of a flavin adenine dinucleotide-dependent glucose dehydrogenase. *Electrochimica Acta*, **2019**, 302, 270-276	6.7	12
43	Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications. *Electroanalysis*, **2018**, 30, 1496-1504	3	12
42	Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and Gluconobacter oxydans DSM 2343 Cells. *ChemistrySelect*, **2017**, 2, 12034-12040	1.8	12
41	Inexpensive Miniature Programmable Magnetic Stirrer from Reconfigured Computer Parts. *Journal of Chemical Education*, **2017**, 94, 816-818	2.4	11
40	Redox-Polymers Enable Uninterrupted Day/Night Photo-Driven Electricity Generation in Biophotovoltaic Devices. *Journal of the Electrochemical Society*, **2017**, 164, H3037-H3040	3.9	11
39	Crayfish walking leg neuronal biosensor for the detection of pyrazinamide and selected local anesthetics. *Analytica Chimica Acta*, **1993**, 274, 25-35	6.6	11
38	Effect of deglycosylation on the mediated electrocatalytic activity of recombinantly expressed Agaricus meleagris pyranose dehydrogenase wired by osmium redox polymer. *Electrochimica Acta*, **2014**, 126, 61-67	6.7	10
37	Micropatterned Carbon-on-Quartz Electrode Chips for Photocurrent Generation from Thylakoid Membranes. *ACS Applied Energy Materials*, **2018**, 1, 3313-3322	6.1	10
36	Cost-Effective Wireless Microcontroller for Internet Connectivity of Open-Source Chemical Devices. *Journal of Chemical Education*, **2018**, 95, 1221-1225	2.4	9
35	Electron Transfer between the Gram-Positive Enterococcus faecalis Bacterium and Electrode Surface through Osmium Redox Polymers. *ChemElectroChem*, **2019**, 6, 110-113	4.3	9
34	Arylamine functionalization of carbon anodes for improved microbial electrocatalysis. *RSC Advances*, **2013**, 3, 18759	3.7	9
33	Coupling of Amine-Containing Osmium Complexes and Glucose Oxidase with Carboxylic Acid Polymer and Carbon Nanotube Matrix to Provide Enzyme Electrodes for Glucose Oxidation. *Journal of the Electrochemical Society*, **2014**, 161, H3005-H3010	3.9	9
32	Multiplexed Electrochemical Cancer Diagnostics With Automated Microfluidics. *Electroanalysis*, **2019**, 31, 208-211	3	9
31	Immobilisation of Alkylamine-Functionalised Osmium Redox Complex on Glassy Carbon using Electrochemical Oxidation. *Electrochimica Acta*, **2014**, 140, 209-216	6.7	8

30	Composite Material Based on Macroporous Polyaniline and Osmium Redox Complex for Biosensor Development. *Electroanalysis*, **2014**, 26, 1623-1630	3	8
29	Oxygen Electroreduction Catalyzed by Bilirubin Oxidase Does Not Release Hydrogen Peroxide. *Electrocatalysis*, **2011**, 2, 268-272	2.7	8
28	An oxygen-reducing biocathode with "oxygen tanks". *Chemical Communications*, **2020**, 56, 9767-9770	5.8	8
27	Comparative proteomics implicates a role for multiple secretion systems in electrode-respiring Geobacter sulfurreducens biofilms. *Journal of Proteome Research*, **2016**, 15, 4135-4145	5.6	7
26	A BRIEF REVIEW ON RECENT ADVANCES IN AIR-CATHODE MICROBIAL FUEL CELLS. *Environmental Engineering and Management Journal*, **2018**, 17, 1531-1544	0.6	6
25	Analysis of Agaricus meleagris pyranose dehydrogenase N-glycosylation sites and performance of partially non-glycosylated enzymes. *Enzyme and Microbial Technology*, **2017**, 99, 57-66	3.8	5
24	Design of Experiments Approach to Provide Enhanced Glucose-oxidising Enzyme Electrode for Membrane-less Enzymatic Fuel Cells Operating in Human Physiological Fluids. *Electroanalysis*, **2018**, 30, 1438-1445	3	5
23	Preparation and reactivity of carboxylic acid-terminated boron-doped diamond electrodes. *Electrochimica Acta*, **2010**, 55, 959-964	6.7	5
22	Electrochemical glucose biosensor based on an osmium redox polymer and glucose oxidase grafted to carbon nanotubes: A design-of-experiments optimisation of current density and stability. *Electrochimica Acta*, **2021**, 371, 137845	6.7	5
21	Glucose oxidation by enzyme electrodes using genipin to crosslink chitosan, glucose oxidase and amine-containing osmium redox complexes. *Electrochemistry Communications*, **2020**, 113, 106703	5.1	4
20	Substantial Influence of Temperature on Anchoring of Gold-Nanoparticle Monolayer for Performance of DNA Biosensors. *Electroanalysis*, **2010**, 22, 2323-2329	3	4
19	Neuronal biosensors: A progress report. *Electroanalysis*, **1993**, 5, 103-111	3	4
18	Antimicrobial enzymatic biofuel cells. *Chemical Communications*, **2020**, 56, 15589-15592	5.8	4
17	Self-Powered Detection of Glucose by Enzymatic Glucose/Oxygen Fuel Cells on Printed Circuit Boards. *ACS Applied Materials & Interfaces*, **2021**, 13, 26704-26711	9.5	4
16	Aqueous-Eutectic-in-Salt Electrolytes for High-Energy-Density Supercapacitors with an Operational Temperature Window of 100 °C, from -35 to +65 °C. *ACS Applied Materials & Interfaces*, **2020**, 12, 29181-29193	9.5	3
15	Acetic anhydride mediated condensation of aromatic o-diacid dichlorides with benzimidazoles to provide electro-reducible p-dione adducts. *Tetrahedron Letters*, **2012**, 53, 3788-3791	2	3
14	Electrochemical determination of electroinactive guests of ?-cyclodextrin at a self-assembled monolayer interface. *Science in China Series B: Chemistry*, **2002**, 45, 46		3
13	Biomagnetic neurosensors. *Analytical Chemistry*, **1993**, 65, 3262-6	7.8	3

12	Neuronal-Based Assay and Detection of Local Anesthetics Using Electrically Stimulated Crayfish Walking Leg Nerves. *Analytical Letters*, **1993**, 26, 1259-1279	2.2	3
11	Analytical Applications of Polymer-Modified Electrodes **1996**, 269-296		3
10	Substrate Preference Pattern of Agaricus meleagris Pyranose Dehydrogenase Evaluated through Bioelectrochemical Flow Injection Amperometry. *ChemElectroChem*, **2019**, 6, 801-809	4.3	3
9	A Voltammetric Assay of Antioxidants and Inhibitors of Soybean Lipoxygenase. *Electroanalysis*, **2003**, 15, 573-578	3	2
8	Analysis of inorganic solids by laser ablation inductively coupled plasma spectrometry. *Analytical Proceedings*, **1992**, 29, 23		2
7	COMPARISON OF PERFORMANCE OF AN EARTHEN PLATE AND NAFION AS MEMBRANE SEPARATORS IN DUAL CHAMBER MICROBIAL FUEL CELLS. *Environmental Engineering and Management Journal*, **2018**, 17, 451-458	0.6	2
6	Photo-Biosupercapacitors: Supercapacitive Photo-Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing (Adv. Energy Mater. 12/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	1
5	Thiol functionalisation of gold-coated magnetic nanoparticles: Enabling the controlled attachment of functional molecules **2010**,		1
4	Powering fuel cells through biocatalysis **2008**, 385-410		1
3	Mobile Voltammetric Laboratory for Ship-Board and Shore-Based Analyses of Dissolved Copper. *Environmental Chemistry*, **2006**, 3, 450	3.2	1
2	Use of a Thermophile Desiccation-Tolerant Cyanobacterial Culture and Os Redox Polymer for the Preparation of Photocurrent Producing Anodes. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 900	5.8	1
1	Enzymatic Fuel Cells. *Advances in Electrochemical Science and Engineering*, **2012**, 229-267		