Donal Leech

List of Publications by Year in descending order

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157 papers	7,453 citations	47006 47 h-index	79 g-index
163	163	163	6818
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Electrochemical analysis of the interactions of laccase mediators with lignin model compounds. Biochimica Et Biophysica Acta - General Subjects, 1998, 1379, 381-390.	2.4	402
2	Enzymatic fuel cells: Recent progress. Electrochimica Acta, 2012, 84, 223-234.	5.2	400
3	The ins and outs of microorganism–electrode electron transfer reactions. Nature Reviews Chemistry, 2017, 1, .	30.2	385
4	Bioelectrochemical Haber–Bosch Process: An Ammoniaâ€Producing H ₂ /N ₂ Fuel Cell. Angewandte Chemie - International Edition, 2017, 56, 2680-2683.	13.8	218
5	A laccase–glucose oxidase biofuel cell prototype operating in a physiological buffer. Electrochimica Acta, 2006, 51, 5187-5192.	5. 2	195
6	Nitrogenase bioelectrocatalysis: heterogeneous ammonia and hydrogen production by MoFe protein. Energy and Environmental Science, 2016, 9, 2550-2554.	30.8	187
7	Application of Colloidal Gold in Protein Immobilization, Electron Transfer, and Biosensing. Analytical Letters, 2003, 36, 1-19.	1.8	178
8	Geobacter sulfurreducens biofilms developed under different growth conditions on glassy carbon electrodes: insights using cyclic voltammetry. Chemical Communications, 2010, 46, 4758.	4.1	160
9	Targetting redox polymers as mediators for laccase oxygen reduction in a membrane-less biofuel cell. Electrochemistry Communications, 2004, 6, 237-241.	4.7	150
10	Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode. Analytica Chimica Acta, 1999, 378, 151-157.	5 . 4	116
11	Characterisation of an antibody coated microcantilever as a potential immuno-based biosensor. Biosensors and Bioelectronics, 2002, 17, 201-207.	10.1	116
12	Three-dimensional microchanelled electrodes in flow-through configuration for bioanode formation and current generation. Energy and Environmental Science, 2011, 4, 4201.	30.8	112
13	Characterization of different FAD-dependent glucose dehydrogenases for possible use in glucose-based biosensors and biofuel cells. Analytical and Bioanalytical Chemistry, 2012, 402, 2069-2077.	3.7	107
14	Mediated electron transfer in glucose oxidising enzyme electrodes for application to biofuel cells: recent progress and perspectives. Physical Chemistry Chemical Physics, 2013, 15, 4859.	2.8	107
15	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. ACS Applied Materials & Diterfaces, 2018, 10, 7107-7116.	8.0	102
16	Microbial analysis of anodic biofilm in a microbial fuel cell using slaughterhouse wastewater. Bioelectrochemistry, 2012, 87, 164-171.	4.6	99
17	Characterization of Nanoporous Gold Electrodes for Bioelectrochemical Applications. Langmuir, 2012, 28, 2251-2261.	3.5	96
18	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.	11.2	96

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19	Redox Polymer and Probe DNA Tethered to Gold Electrodes for Enzyme-Amplified Amperometric Detection of DNA Hybridization. Analytical Chemistry, 2006, 78, 2710-2716.	6.5	95
20	Effect of electrolytes on the electrochemical behaviour of 11-(ferrocenylcarbonyloxy)undecanethiol SAMs on gold disk electrodes. Physical Chemistry Chemical Physics, 1999, 1, 1549-1554.	2.8	89
21	Extracellular Electron Transfer by the Gram-Positive Bacterium <i>Enterococcus faecalis</i> Biochemistry, 2018, 57, 4597-4603.	2.5	89
22	Electron-Transfer Studies with a New Flavin Adenine Dinucleotide Dependent Glucose Dehydrogenase and Osmium Polymers of Different Redox Potentials. Analytical Chemistry, 2012, 84, 334-341.	6.5	86
23	Reagentless Mediated Laccase Electrode for the Detection of Enzyme Modulators. Analytical Chemistry, 1997, 69, 882-886.	6.5	85
24	Photo-electrochemical communication between cyanobacteria (Leptolyngbia sp.) and osmium redox polymer modified electrodes. Physical Chemistry Chemical Physics, 2014, 16, 24676-24680.	2.8	79
25	Designing Stable Redox-Active Surfaces: Chemical Attachment of an Osmium Complex to Glassy Carbon Electrodes Prefunctionalized by Electrochemical Reduction of an <i>In Situ</i> -Generated Aryldiazonium Cation. Langmuir, 2008, 24, 6351-6358.	3.5	77
26	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. Biosensors and Bioelectronics, 2017, 90, 96-102.	10.1	75
27	Electrochemical study of a metallothionein modified gold disk electrode and its action on Hg2+cations. Journal of Electroanalytical Chemistry, 2000, 484, 150-156.	3.8	74
28	Improved stability of redox enzyme layers on glassy carbon electrodes via covalent grafting. Electrochemistry Communications, 2008, 10, 835-838.	4.7	65
29	Affinity biosensors. Chemical Society Reviews, 1994, 23, 205.	38.1	64
30	Reagentless Tyrosinase Enzyme Electrodes:  Effects of Enzyme Loading, Electrolyte pH, Ionic Strength, and Temperature. Analytical Chemistry, 1997, 69, 4108-4112.	6.5	64
31	Performance of a Glucose/O ₂ Enzymatic Biofuel Cell Containing a Mediated <i>Melanocarpus albomyces</i> Laccase Cathode in a Physiological Buffer. Fuel Cells, 2009, 9, 79-84.	2.4	63
32	Photoelectrochemical Wiring of <i>Paulschulzia pseudovolvox</i> (Algae) to Osmium Polymer Modified Electrodes for Harnessing Solar Energy. Advanced Energy Materials, 2015, 5, 1501100.	19.5	63
33	Charge Transport through <i>Geobacter sulfurreducens</i> Biofilms Grown on Graphite Rods. Langmuir, 2012, 28, 7904-7913.	3.5	62
34	Self-Powered Wireless Carbohydrate/Oxygen Sensitive Biodevice Based on Radio Signal Transmission. PLoS ONE, 2014, 9, e109104.	2.5	62
35	Wiring of pyranose dehydrogenase with osmium polymers of different redox potentials. Bioelectrochemistry, 2010, 80, 38-42.	4.6	60
36	Photocurrent Generation from Thylakoid Membranes on Osmiumâ€Redoxâ€Polymerâ€Modified Electrodes. ChemSusChem, 2015, 8, 990-993.	6.8	60

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37	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, 2156-2163.	6.5	59
38	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, 294-299.	10.1	56
39	Charge transport in films of Geobacter sulfurreducens on graphite electrodes as a function of film thickness. Physical Chemistry Chemical Physics, 2014, 16, 9039-9046.	2.8	56
40	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.	5.4	55
41	Optimisation of a reagentless laccase electrode for the detection of the inhibitor azideâ€. Analyst, The, 1998, 123, 1971-1974.	3.5	53
42	Amperometric Detection of Catecholamine Neurotransmitters Using Electrocatalytic Substrate Recycling at a Laccase Electrode. Electroanalysis, 2005, 17, 113-119.	2.9	53
43	Supercapacitive Photoâ€Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing. Advanced Energy Materials, 2017, 7, 1602285.	19.5	53
44	Paper-based microfluidic biofuel cell operating under glucose concentrations within physiological range. Biosensors and Bioelectronics, 2017, 90, 475-480.	10.1	53
45	Wiring of Photosystemâ€I and Hydrogenase on an Electrode for Photoelectrochemical H 2 Production by using Redox Polymers for Relatively Positive Onset Potential. ChemElectroChem, 2017, 4, 90-95.	3.4	53
46	Hostâ Guest Interaction at a Self-Assembled Monolayer/Solution Interface: Â An Electrochemical Analysis of the Inclusion of 11-(Ferrocenylcarbonyloxy) undecanethiol by Cyclodextrins. Langmuir, 1998, 14, 300-306.	3.5	52
47	Synthesis by Radical Cyclization and Cytotoxicity of Highly Potent Bioreductive Alicyclic Ring Fused [1,2-a]Benzimidazolequinones. Chemistry - A European Journal, 2007, 13, 3218-3226.	3.3	52
48	Biocatalytic anode for glucose oxidation utilizing carbon nanotubes for direct electron transfer with glucose oxidase. Electrochemistry Communications, 2009, 11, 2004-2007.	4.7	46
49	Optimization of a Membraneless Glucose/Oxygen Enzymatic Fuel Cell Based on a Bioanode with High Coulombic Efficiency and Current Density. ChemPhysChem, 2013, 14, 2260-2269.	2.1	46
50	Electrochemical communication between heterotrophically grown Rhodobacter capsulatus with electrodes mediated by an osmium redox polymer. Bioelectrochemistry, 2013, 93, 30-36.	4.6	46
51	Evaluation of performance and stability of biocatalytic redox films constructed with different copper oxygenases and osmium-based redox polymers. Bioelectrochemistry, 2009, 76, 162-168.	4.6	45
52	Electrochemical communication between microbial cells and electrodes via osmium redox systems. Biochemical Society Transactions, 2012, 40, 1330-1335.	3.4	44
53	High-performance liquid chromatographic determination of phenols using a tyrosinase-based amperometric biosensor detection system. Analyst, The, 1996, 121, 1885.	3.5	42
54	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, 172-177.	4.6	42

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55	Electrochemical Communication Between Electrodes and <i>Rhodobacter capsulatus</i> Grown in Different Metabolic Modes. Electroanalysis, 2015, 27, 118-127.	2.9	42
56	Electroreduction of O2 at a mediated Melanocarpus albomyces laccase cathode in a physiological buffer. Electrochemistry Communications, 2008, 10, 970-972.	4.7	41
57	Improved microbial electrocatalysis with osmium polymer modified electrodes. Chemical Communications, 2012, 48, 10183.	4.1	41
58	Oxidation of lignin model compounds by organic and transition metal-based electron transfer mediators. Chemical Communications, 2002, , 1182-1183.	4.1	39
59	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. Biosensors and Bioelectronics, 2017, 98, 421-427.	10.1	39
60	Evaluation of Photocurrent Generation from Different Photosynthetic Organisms. ChemElectroChem, 2017, 4, 412-417.	3.4	38
61	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.	5.4	37
62	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, 2383-2389.	10.1	37
63	Mediated reagentless enzyme inhibition electrodes. Biosensors and Bioelectronics, 1998, 13, 417-425.	10.1	36
64	Crosslinked redox polymer enzyme electrodes containing carbon nanotubes for high and stable glucose oxidation current. Physical Chemistry Chemical Physics, 2012, 14, 14667.	2.8	36
65	Catalytic response of microbial biofilms grown under fixed anode potentials depends on electrochemical cell configuration. Chemical Engineering Journal, 2013, 230, 532-536.	12.7	36
66	Coupling osmium complexes to epoxy-functionalised polymers to provide mediated enzyme electrodes for glucose oxidation. Biosensors and Bioelectronics, 2013, 43, 30-37.	10.1	36
67	The In Vivo Potential-Regulated Protective Protein of Nitrogenase in <i>Azotobacter vinelandii</i> Supports Aerobic Bioelectrochemical Dinitrogen Reduction In Vitro. Journal of the American Chemical Society, 2017, 139, 9044-9052.	13.7	36
68	Electroactive biofilms on surface functionalized anodes: The anode respiring behavior of a novel electroactive bacterium, Desulfuromonas acetexigens. Water Research, 2020, 185, 116284.	11.3	36
69	Improved synthesis of 4,4′-diamino-2,2′-bipyridine from 4,4′-dinitro-2,2′-bipyridine-N,N′-dioxide. Tet Letters, 2004, 45, 121-123.	rahedron	33
70	Electrocatalytic detection of streptomycin and related antibiotics at ruthenium dioxide modified graphite-epoxy composite electrodes. Analyst, The, 1990, 115, 1447.	3.5	32
71	Generation of electricity in microbial fuel cells at sub-ambient temperatures. Journal of Power Sources, 2011, 196, 2676-2681.	7.8	32
72	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, 181-187.	3.2	32

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73	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. Analytical and Bioanalytical Chemistry, 2013, 405, 3823-3830.	3.7	32
74	Glucose biosensor based on open-source wireless microfluidic potentiostat. Sensors and Actuators B: Chemical, 2019, 290, 616-624.	7.8	32
75	A glucose/oxygen enzymatic fuel cell based on redox polymer and enzyme immobilisation at highly-ordered macroporous gold electrodes. Analyst, The, 2012, 137, 113-117.	3.5	31
76	Electrocatalysis and flow detection of alcohols at ruthenium dioxide-modified electrodes. Electroanalysis, 1991, 3, 37-42.	2.9	29
77	A membrane-less enzymatic fuel cell with layer-by-layer assembly of redox polymer and enzyme over graphite electrodes. Chemical Communications, 2011, 47, 11861.	4.1	29
78	Electricity generation in single-chamber microbial fuel cells using a carbon source sampled from anaerobic reactors utilizing grass silage. Bioresource Technology, 2011, 102, 404-410.	9.6	29
79	Recombinant pyranose dehydrogenase—A versatile enzyme possessing both mediated and direct electron transfer. Electrochemistry Communications, 2012, 24, 120-122.	4.7	29
80	Membraneless Glucose/Oxygen Enzymatic Fuel Cells Using Redox Hydrogel Films Containing Carbon Nanotubes. ChemPhysChem, 2013, 14, 2302-2307.	2.1	29
81	Electrochemical wiring of the Gram-positive bacterium Enterococcus faecalis with osmium redox polymer modified electrodes. Electrochemistry Communications, 2017, 75, 56-59.	4.7	29
82	Adsorption and Desorption of Electroactive Self-Assembled Thiolate Monolayers on Gold. Langmuir, 1999, 15, 8170-8177.	3. 5	28
83	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.	5.2	28
84	Electrochemistry of poly(vinylferrocene) formed by direct electrochemical reduction at a glassy carbon electrode. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1371-1375.	1.7	27
85	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, 1037-1042.	10.1	27
86	Does bioelectrochemical cell configuration and anode potential affect biofilm response?. Biochemical Society Transactions, 2012, 40, 1308-1314.	3.4	27
87	Bioelectrochemical Haber–Bosch Process: An Ammoniaâ€Producing H ₂ /N ₂ Fuel Cell. Angewandte Chemie, 2017, 129, 2724-2727.	2.0	27
88	Sunlight photocurrent generation from thylakoid membranes on gold nanoparticle modified screen-printed electrodes. Journal of Electroanalytical Chemistry, 2018, 816, 259-264.	3.8	27
89	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.	6.7	26
90	Determination of nitrite based on mediated oxidation at a carbon paste electrode modified with a ruthenium polymer. Talanta, 1992, 39, 443-447.	5 . 5	26

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91	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.	3.8	26
92	Effect of Multiâ€Walled Carbon Nanotubes on Glucose Oxidation by Glucose Oxidase or a Flavinâ€Dependent Glucose Dehydrogenase in Redoxâ€Polymerâ€Mediated Enzymatic Fuel Cell Anodes. ChemElectroChem, 2014, 1, 1988-1993.	3.4	25
93	Electrically â€~wired' tyrosinase enzyme inhibition electrode for the detection of respiratory poisons. Electroanalysis, 1995, 7, 952-957.	2.9	24
94	[Os(bpy)2(PVI)10Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH. Analytica Chimica Acta, 1997, 345, 51-58.	5.4	24
95	Electrocatalytical Oxidation and Determination of Dopamine at Redox Polymer/Nafion Modified Electrodes. Analytical Letters, 1999, 32, 2951-2964.	1.8	23
96	Mediated glucose enzyme electrodes by cross-linking films of osmium redox complexes and glucose oxidase on electrodes. Analytical and Bioanalytical Chemistry, 2013, 405, 3807-3812.	3.7	23
97	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	23
98	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.	2.7	23
99	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.	5.2	23
100	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.	5.2	22
101	Diazonium salt derivatives of osmium bipyridine complexes: Electrochemical grafting and characterisation of modified surfaces. Electrochimica Acta, 2011, 56, 2213-2220.	5.2	21
102	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.	5.2	21
103	Improved operational stability of mediated glucose enzyme electrodes for operation in human physiological solutions. Bioelectrochemistry, 2020, 133, 107460.	4.6	21
104	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.	2.9	20
105	Engineering of pyranose dehydrogenase for application to enzymatic anodes in biofuel cells. Physical Chemistry Chemical Physics, 2015, 17, 9074-9081.	2.8	20
106	Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in <i>Gluconobacter oxydans</i> Based Microbial Fuel Cell. Electroanalysis, 2017, 29, 1651-1657.	2.9	19
107	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.	5.2	18
108	[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, 2895-2898.	3.5	17

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109	Mediated Enzyme Electrodes for Biological Fuel Cell and Biosensor Applications. ECS Transactions, 2008, 13, 77-87.	0.5	17
110	Further Insights into the Catalytical Properties of Deglycosylated Pyranose Dehydrogenase from <i>Agaricus meleagris</i> Recombinantly Expressed in <i>Pichia pastoris</i> Analytical Chemistry, 2013, 85, 9852-9858.	6.5	16
111	A glucose anode for enzymatic fuel cells optimized for current production under physiological conditions using a design of experiment approach. Bioelectrochemistry, 2015, 106, 41-46.	4.6	16
112	Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNTâ€Auâ€Pt Hybrid Nanomaterial, an Osmium Redox Polymer and <i>Gluconobacter oxydans</i> DSM 2343 Cells. ChemistrySelect, 2017, 2, 12034-12040.	1.5	16
113	Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2â€Oxidases and Osmium Polymers for Biosensor Applications. Electroanalysis, 2018, 30, 1496-1504.	2.9	16
114	Micropatterned Carbon-on-Quartz Electrode Chips for Photocurrent Generation from Thylakoid Membranes. ACS Applied Energy Materials, 2018, 1, 3313-3322.	5.1	16
115	Use of Polymer Coatings to Enhance the Response of Redoxâ€Polymerâ€Mediated Electrodes. ChemElectroChem, 2019, 6, 1344-1349.	3.4	16
116	Crayfish walking leg neuronal biosensor for the detection of pyrazinamide and selected local anesthetics. Analytica Chimica Acta, 1993, 274, 25-35.	5 . 4	15
117	Enzymeâ€Amplified Amperometric Detection of DNA Using Redox Mediating Films on Gold Microelectrodes. Electroanalysis, 2009, 21, 342-350.	2.9	15
118	Self-Powered Detection of Glucose by Enzymatic Glucose/Oxygen Fuel Cells on Printed Circuit Boards. ACS Applied Materials & Samp; Interfaces, 2021, 13, 26704-26711.	8.0	15
119	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.	5.2	13
120	Inexpensive Miniature Programmable Magnetic Stirrer from Reconfigured Computer Parts. Journal of Chemical Education, 2017, 94, 816-818.	2.3	13
121	Redox-Polymers Enable Uninterrupted Day/Night Photo-Driven Electricity Generation in Biophotovoltaic Devices. Journal of the Electrochemical Society, 2017, 164, H3037-H3040.	2.9	13
122	Multiplexed Electrochemical Cancer Diagnostics With Automated Microfluidics. Electroanalysis, 2019, 31, 208-211.	2.9	13
123	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.	2.9	12
124	Comparative Proteomics Implicates a Role for Multiple Secretion Systems in Electrode-Respiring <i>Geobacter sulfurreducens</i> Biofilms. Journal of Proteome Research, 2016, 15, 4135-4145.	3.7	12
125	Cost-Effective Wireless Microcontroller for Internet Connectivity of Open-Source Chemical Devices. Journal of Chemical Education, 2018, 95, 1221-1225.	2.3	12
126	Arylamine functionalization of carbon anodes for improved microbial electrocatalysis. RSC Advances, $2013, 3, 18759$.	3.6	11

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127	A BRIEF REVIEW ON RECENT ADVANCES IN AIR-CATHODE MICROBIAL FUEL CELLS. Environmental Engineering and Management Journal, 2018, 17, 1531-1544.	0.6	11
128	An Oxygen Insensitive Amperometric Glucose Biosensor Based on An Engineered Cellobiose Dehydrogenase: Direct versus Mediated Electron Transfer Responses. ChemElectroChem, 2022, 9, .	3.4	11
129	Composite Material Based on Macroporous Polyaniline and Osmium Redox Complex for Biosensor Development. Electroanalysis, 2014, 26, 1623-1630.	2.9	10
130	Electron Transfer between the Gramâ€Positive <i>Enterococcus faecalis</i> Surface through Osmium Redox Polymers. ChemElectroChem, 2019, 6, 110-113.	3.4	10
131	Aqueous-Eutectic-in-Salt Electrolytes for High-Energy-Density Supercapacitors with an Operational Temperature Window of 100 °C, from â~35 to +65 °C. ACS Applied Materials & amp; Interfaces, 2020, 12, 29181-29193.	8.0	10
132	Glucose oxidation by enzyme electrodes using genipin to crosslink chitosan, glucose oxidase and amine-containing osmium redox complexes. Electrochemistry Communications, 2020, 113, 106703.	4.7	10
133	Oxygen Electroreduction Catalyzed by Bilirubin Oxidase Does Not Release Hydrogen Peroxide. Electrocatalysis, 2011, 2, 268-272.	3.0	9
134	Antimicrobial enzymatic biofuel cells. Chemical Communications, 2020, 56, 15589-15592.	4.1	9
135	An oxygen-reducing biocathode with "oxygen tanks― Chemical Communications, 2020, 56, 9767-9770.	4.1	9
136	Immobilisation of Alkylamine-Functionalised Osmium Redox Complex on Glassy Carbon using Electrochemical Oxidation. Electrochimica Acta, 2014, 140, 209-216.	5.2	8
137	Design of Experiments Approach to Provide Enhanced Glucoseâ€oxidising Enzyme Electrode for Membraneâ€ess Enzymatic Fuel Cells Operating in Human Physiological Fluids. Electroanalysis, 2018, 30, 1438-1445.	2.9	8
138	Substrate Preference Pattern of <i>Agaricus meleagris</i> Pyranose Dehydrogenase Evaluated through Bioelectrochemical Flow Injection Amperometry. ChemElectroChem, 2019, 6, 801-809.	3.4	7
139	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.	4.1	7
140	Analysis of inorganic solids by laser ablation inductively coupled plasma spectrometry. Analytical Proceedings, 1992, 29, 23.	0.4	6
141	Analysis of Agaricus meleagris pyranose dehydrogenase N-glycosylation sites and performance of partially non-glycosylated enzymes. Enzyme and Microbial Technology, 2017, 99, 57-66.	3.2	6
142	Neuronal biosensors: A progress report. Electroanalysis, 1993, 5, 103-111.	2.9	5
143	Biomagnetic neurosensors. Analytical Chemistry, 1993, 65, 3262-3266.	6.5	5
144	Neuronal-Based Assay and Detection of Local Anesthetics Using Electrically Stimulated Crayfish Walking Leg Nerves. Analytical Letters, 1993, 26, 1259-1279.	1.8	5

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145	Substantial Influence of Temperature on Anchoring of Goldâ€Nanoparticle Monolayer for Performance of DNA Biosensors. Electroanalysis, 2010, 22, 2323-2329.	2.9	5
146	Preparation and reactivity of carboxylic acid-terminated boron-doped diamond electrodes. Electrochimica Acta, 2010, 55, 959-964.	5.2	5
147	A Voltammetric Assay of Antioxidants and Inhibitors of Soybean Lipoxygenase. Electroanalysis, 2003, 15, 573-578.	2.9	4
148	Acetic anhydride mediated condensation of aromatic o-diacid dichlorides with benzimidazoles to provide electro-reducible p-dione adducts. Tetrahedron Letters, 2012, 53, 3788-3791.	1.4	4
149	Analytical Applications of Polymer-Modified Electrodes. , 1996, , 269-296.		4
150	Electrochemical determination of electroinactive guests of ?-cyclodextrin at a self-assembled monolayer interface. Science in China Series B: Chemistry, 2002, 45, 46.	0.8	3
151	Powering fuel cells through biocatalysis. , 2008, , 385-410.		3
152	Thiol functionalisation of gold-coated magnetic nanoparticles: Enabling the controlled attachment of functional molecules. , 2010 , , .		3
153	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	3
154	Synthesis of Benzimidazolequinone Analogue of Cyclopropamitosene Antitumor Agents. Synlett, 2004, 2004, 2382-2384.	1.8	1
155	Mobile Voltammetric Laboratory for Ship-Board and Shore-Based Analyses of Dissolved Copper. Environmental Chemistry, 2006, 3, 450.	1.5	1
156	Photoâ€Biosupercapacitors: Supercapacitive Photoâ€Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing (Adv. Energy Mater. 12/2017). Advanced Energy Materials, 2017, 7, .	19.5	1
157	Special Issue in Honor of Wolfgang Schuhmann. Electroanalysis, 2016, 28, 2254-2255.	2.9	O