Peter Ã“ Conghaile

List of Publications by Year
in descending order

32	1,009	361045	414034
papers	citations	20 h-index	32 g-index

34	34	34	1091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. ACS Applied Materials & Interfaces, 2018, 10, 7107-7116.	4.0	102
2	Photo-electrochemical communication between cyanobacteria (Leptolyngbia sp.) and osmium redox polymer modified electrodes. Physical Chemistry Chemical Physics, 2014, 16, 24676-24680.	1.3	79
3	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. Biosensors and Bioelectronics, 2017, 90, 96-102.	5.3	75
4	Self-Powered Wireless Carbohydrate/Oxygen Sensitive Biodevice Based on Radio Signal Transmission. PLoS ONE, 2014, 9, e109104.	1.1	62
5	Fully Enzymatic Membraneless Glucose	Oxygen Fuel Cell That Provides 0.275 mA cm^{â€“2} in 5 mM Glucose, Operates in Human Physiological Solutions, and Powers Transmission of Sensing Data. Analytical Chemistry, 2016, 88, 2156-2163.	3.2	59
6	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.	1.0	46
7	Electrochemical Communication Between Electrodes and <i>Rhodobacter capsulatus</i> Grown in Different Metabolic Modes. Electroanalysis, 2015, 27, 118-127.	1.5	42
8	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. Biosensors and Bioelectronics, 2017, 98, 421-427.	5.3	39
9	Crosslinked redox polymer enzyme electrodes containing carbon nanotubes for high and stable glucose oxidation current. Physical Chemistry Chemical Physics, 2012, 14, 14667.	1.3	36
10	Coupling osmium complexes to epoxy-functionalised polymers to provide mediated enzyme electrodes for glucose oxidation. Biosensors and Bioelectronics, 2013, 43, 30-37.	5.3	36
11	Electroactive biofilms on surface functionalized anodes: The anode respiring behavior of a novel electroactive bacterium, Desulfuromonas acetexigens. Water Research, 2020, 185, 116284.	5.3	36
12	Immobilization of Redox Enzymes on Nanoporous Gold Electrodes: Applications in Biofuel Cells. ChemPlusChem, 2017, 82, 553-560.	1.3	34
13	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. Analytical and Bioanalytical Chemistry, 2013, 405, 3823-3830.	1.9	32
14	Glucose biosensor based on open-source wireless microfluidic potentiostat. Sensors and Actuators B: Chemical, 2019, 290, 616-624.	4.0	32
15	Recombinant pyranose dehydrogenaseâ€”A versatile enzyme possessing both mediated and direct electron transfer. Electrochemistry Communications, 2012, 24, 120-122.	2.3	29
16	Membraneless Glucose/Oxygen Enzymatic Fuel Cells Using Redox Hydrogel Films Containing Carbon Nanotubes. ChemPhysChem, 2013, 14, 2302-2307.	1.0	29
17	Electrostatic immobilisation of copper(I) and copper(II) bis(oxazolinyl)pyridine catalysts on silica: application to the synthesis of propargylamines via direct addition of terminal alkynes to imines. Tetrahedron Letters, 2007, 48, 4387-4390.	0.7	26
18	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.	1.9	23

#	Article	IF	Citations
19	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.	1.3	23
20	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.	2.6	22
21	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.	1.5	20
22	Engineering of pyranose dehydrogenase for application to enzymatic anodes in biofuel cells. Physical Chemistry Chemical Physics, 2015, 17, 9074-9081.	1.3	20
23	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.	1.5	19
24	Further Insights into the Catalytical Properties of Deglycosylated Pyranose Dehydrogenase from Agaricus meleagris Recombinantly Expressed in Pichia pastoris. Analytical Chemistry, 2013, 85, 9852-9858.	3.2	16
25	Use of Polymer Coatings to Enhance the Response of Redoxâ€Polymerâ€Mediated Electrodes. ChemElectroChem, 2019, 6, 1344-1349.	1.7	16
26	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.	2.6	13
27	Arylamine functionalization of carbon anodes for improved microbial electrocatalysis. RSC Advances, 2013, 3, 18759.	1.7	11
28	Glucose oxidation by enzyme electrodes using genipin to crosslink chitosan, glucose oxidase and amine-containing osmium redox complexes. Electrochemistry Communications, 2020, 113, 106703.	2.3	10
29	Design of Experiments Approach to Provide Enhanced Glucoseâ€oxidising Enzyme Electrode for Membraneâ€less Enzymatic Fuel Cells Operating in Human Physiological Fluids. Electroanalysis, 2018, 30, 1438-1445.	1.5	8
30	Substrate Preference Pattern of Agaricus meleagris Pyranose Dehydrogenase Evaluated through Bioelectrochemical Flow Injection Amperometry. ChemElectroChem, 2019, 6, 801-809.	1.7	7
31	Analysis of Agaricus meleagris pyranose dehydrogenase N-glycosylation sites and performance of partially non-glycosylated enzymes. Enzyme and Microbial Technology, 2017, 99, 57-66.	1.6	6
32	Ubiquinone electrochemistry in analysis and sensing. Electrochemical Science Advances, 2023, 3, .	1.2	1