

Peter Ã“ Conghaile

List of Publications by Year in descending order

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32
papers

1,009
citations

361045

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h-index

414034

32
g-index

34
all docs

34
docs citations

34
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Ubiquinone electrochemistry in analysis and sensing. <i>Electrochemical Science Advances</i> , 2023, 3, .	1.2	1
2	Electroactive biofilms on surface functionalized anodes: The anode respiring behavior of a novel electroactive bacterium, <i>Desulfuromonas acetexigens</i> . <i>Water Research</i> , 2020, 185, 116284.	5.3	36
3	Glucose oxidation by enzyme electrodes using genipin to crosslink chitosan, glucose oxidase and amine-containing osmium redox complexes. <i>Electrochemistry Communications</i> , 2020, 113, 106703.	2.3	10
4	Glucose biosensor based on open-source wireless microfluidic potentiostat. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 616-624.	4.0	32
5	Use of Polymer Coatings to Enhance the Response of Redoxâ€Polymerâ€Mediated Electrodes. <i>ChemElectroChem</i> , 2019, 6, 1344-1349.	1.7	16
6	Substrate Preference Pattern of <i>Agaricus melegaris</i> Pyranose Dehydrogenase Evaluated through Bioelectrochemical Flow Injection Amperometry. <i>ChemElectroChem</i> , 2019, 6, 801-809.	1.7	7
7	Nanoporous Gold-Based Biofuel Cells on Contact Lenses. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7107-7116.	4.0	102
8	Design of Experiments Approach to Provide Enhanced Glucoseâ€Oxidising Enzyme Electrode for Membraneâ€less Enzymatic Fuel Cells Operating in Human Physiological Fluids. <i>Electroanalysis</i> , 2018, 30, 1438-1445.	1.5	8
9	Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in <i>Glucanobacter oxydans</i> Based Microbial Fuel Cell. <i>Electroanalysis</i> , 2017, 29, 1651-1657.	1.5	19
10	Analysis of <i>Agaricus melegaris</i> pyranose dehydrogenase N-glycosylation sites and performance of partially non-glycosylated enzymes. <i>Enzyme and Microbial Technology</i> , 2017, 99, 57-66.	1.6	6
11	An oxygen-independent and membrane-less glucose biobattery/supercapacitor hybrid device. <i>Biosensors and Bioelectronics</i> , 2017, 98, 421-427.	5.3	39
12	Immobilization of Redox Enzymes on Nanoporous Gold Electrodes: Applications in Biofuel Cells. <i>ChemPlusChem</i> , 2017, 82, 553-560.	1.3	34
13	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. <i>Biosensors and Bioelectronics</i> , 2017, 90, 96-102.	5.3	75
14	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. <i>Analytical Chemistry</i> , 2016, 88, 2156-2163.	3.2	59
15	Electrochemical Communication Between Electrodes and <i>Rhodobacter capsulatus</i> Grown in Different Metabolic Modes. <i>Electroanalysis</i> , 2015, 27, 118-127.	1.5	42
16	Engineering of pyranose dehydrogenase for application to enzymatic anodes in biofuel cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9074-9081.	1.3	20
17	Glucose oxidation by osmium redox polymer mediated enzyme electrodes operating at low potential and in oxygen, for application to enzymatic fuel cells. <i>Electrochimica Acta</i> , 2015, 182, 320-326.	2.6	22
18	Self-Powered Wireless Carbohydrate/Oxygen Sensitive Biodevice Based on Radio Signal Transmission. <i>PLoS ONE</i> , 2014, 9, e109104.	1.1	62

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19	Effect of deglycosylation on the mediated electrocatalytic activity of recombinantly expressed <i>Agaricus meleagris</i> pyranose dehydrogenase wired by osmium redox polymer. <i>Electrochimica Acta</i> , 2014, 126, 61-67.	2.6	13
20	Photo-electrochemical communication between cyanobacteria (<i>Leptolyngbia</i> sp.) and osmium redox polymer modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24676-24680.	1.3	79
21	Mediated glucose enzyme electrodes by cross-linking films of osmium redox complexes and glucose oxidase on electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3807-3812.	1.9	23
22	Mediated electron transfer of cellobiose dehydrogenase and glucose oxidase at osmium polymer-modified nanoporous gold electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3823-3830.	1.9	32
23	Arylamine functionalization of carbon anodes for improved microbial electrocatalysis. <i>RSC Advances</i> , 2013, 3, 18759.	1.7	11
24	Further Insights into the Catalytic Properties of Deglycosylated Pyranose Dehydrogenase from <i>Agaricus meleagris</i> Recombinantly Expressed in <i>Pichia pastoris</i> . <i>Analytical Chemistry</i> , 2013, 85, 9852-9858.	3.2	16
25	Tethering Osmium Complexes within Enzyme Films on Electrodes to Provide a Fully Enzymatic Membrane-Less Glucose/Oxygen Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2013, 160, G3165-G3170.	1.3	23
26	Comparison of Glucose Oxidation by Crosslinked Redox Polymer Enzyme Electrodes Containing Carbon Nanotubes and a Range of Glucose Oxidising Enzymes. <i>Electroanalysis</i> , 2013, 25, 94-100.	1.5	20
27	Coupling osmium complexes to epoxy-functionalised polymers to provide mediated enzyme electrodes for glucose oxidation. <i>Biosensors and Bioelectronics</i> , 2013, 43, 30-37.	5.3	36
28	Optimization of a Membraneless Glucose/Oxygen Enzymatic Fuel Cell Based on a Bioanode with High Coulombic Efficiency and Current Density. <i>ChemPhysChem</i> , 2013, 14, 2260-2269.	1.0	46
29	Membraneless Glucose/Oxygen Enzymatic Fuel Cells Using Redox Hydrogel Films Containing Carbon Nanotubes. <i>ChemPhysChem</i> , 2013, 14, 2302-2307.	1.0	29
30	Recombinant pyranose dehydrogenase – A versatile enzyme possessing both mediated and direct electron transfer. <i>Electrochemistry Communications</i> , 2012, 24, 120-122.	2.3	29
31	Crosslinked redox polymer enzyme electrodes containing carbon nanotubes for high and stable glucose oxidation current. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14667.	1.3	36
32	Electrostatic immobilisation of copper(I) and copper(II) bis(oxazoliny)pyridine catalysts on silica: application to the synthesis of propargylamines via direct addition of terminal alkynes to imines. <i>Tetrahedron Letters</i> , 2007, 48, 4387-4390.	0.7	26