Paul Kavanagh

List of Publications by Year
in descending order

39 papers	2,291 citations	279798 23 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	2567 citing authors

#	Article	IF	Citations
1	Enzymatic fuel cells: Recent progress. Electrochimica Acta, 2012, 84, 223-234.	5.2	400
2	The ins and outs of microorganismâ€“electrode electron transfer reactions. Nature Reviews Chemistry, 2017, 1, .	30.2	385
3	A laccaseâ€“glucose oxidase biofuel cell prototype operating in a physiological buffer. Electrochimica Acta, 2006, 51, 5187-5192.	5.2	195
4	Geobacter sulfurreducens biofilms developed under different growth conditions on glassy carbon electrodes: insights using cyclic voltammetry. Chemical Communications, 2010, 46, 4758.	4.1	160
5	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
6	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
7	New Luminescent Polynuclear Metal Complexes with Anticancer Properties: Toward Structureâ€“Activity Relationships. Inorganic Chemistry, 2016, 55, 2544-2557.	4.0	69
8	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.	2.4	63
9	Charge Transport through Geobacter sulfurreducens Biofilms Grown on Graphite Rods. Langmuir, 2012, 28, 7904-7913.	3.5	62
10	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
11	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
12	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
13	The mechanism of aquaporin inhibition by gold compounds elucidated by biophysical and computational methods. Chemical Communications, 2017, 53, 3830-3833.	4.1	50
14	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
15	Electroreduction of O2 at a mediated Melanocarpus albomyces laccase cathode in a physiological buffer. Electrochemistry Communications, 2008, 10, 970-972.	4.7	41
16	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
17	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
18	Improved synthesis of 4,4â€²-diamino-2,2â€²-bipyridine from 4,4â€²-dinitro-2,2â€²-bipyridine-N,Nâ€²-dioxide. Tetrahedron Letters, 2004, 45, 121-123.	1.4	33

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19	Generation of electricity in microbial fuel cells at sub-ambient temperatures. Journal of Power Sources, 2011, 196, 2676-2681.	7.8	32
20	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
21	Membraneless Glucose/Oxygen Enzymatic Fuel Cells Using Redox Hydrogel Films Containing Carbon Nanotubes. ChemPhysChem, 2013, 14, 2302-2307.	2.1	29
22	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
23	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
24	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
25	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
26	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
27	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
28	Discovery of anti-cancer activity for benzo[1,2,4]triazin-7-ones: Very strong correlation to pleurotin and thioredoxin reductase inhibition. Bioorganic and Medicinal Chemistry, 2016, 24, 3565-3570.	3.0	20
29	Mediated Enzyme Electrodes for Biological Fuel Cell and Biosensor Applications. ECS Transactions, 2008, 13, 77-87.	0.5	17
30	Preparation of Cytocompatible ITO Neuroelectrodes with Enhanced Electrochemical Characteristics Using a Facile Anodic Oxidation Process. Advanced Functional Materials, 2018, 28, 1605035.	14.9	16
31	Enzymeâ€Amplified Amperometric Detection of DNA Using Redox Mediating Films on Gold Microelectrodes. Electroanalysis, 2009, 21, 342-350.	2.9	15
32	Comparative Proteomics Implicates a Role for Multiple Secretion Systems in Electrode-Respiring Geobacter sulfurreducens Biofilms. Journal of Proteome Research, 2016, 15, 4135-4145.	3.7	12
33	Taming Tris(bipyridine)ruthenium(II) and Its Reactions in Water by Capture/Release with Shape-Switchable Symmetry-Matched Cyclophanes. Journal of the American Chemical Society, 2022, 144, 4977-4988.	13.7	12
34	Oxygen Electroreduction Catalyzed by Bilirubin Oxidase Does Not Release Hydrogen Peroxide. Electrocatalysis, 2011, 2, 268-272.	3.0	9
35	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
36	DNA binding, cleavage and cytotoxicity of a novel dimetallic Fe(III) triaza-cyclononane complex. Inorganica Chimica Acta, 2016, 452, 170-175.	2.4	4

#	Article	IF	Citations
37	Electroactivity of PIPO nitroxide radical polymer films. Electrochimica Acta, 2021, 392, 139044.	5.2	3
38	Synthesis of Benzimidazolequinone Analogue of Cyclopropamitosene Antitumor Agents. Synlett, 2004, 2004, 2382-2384.	1.8	1
39	On the use of surface-confined molecular catalysts in fuel cell development. Current Opinion in Electrochemistry, 2021, 29, 100765.	4.8	1