

R D O neill

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,591
citations

38
h-index

57
g-index

81
ext. papers

3,721
ext. citations

5.3
avg, IF

4.92
L-index

#	Paper	IF	Citations
80	Low electro-synthesis potentials improve permselectivity of polymerized natural phenols in biosensor applications. <i>Talanta</i> , 2017 , 162, 151-158	6.2	20
79	Characterization of Biosensors Based on Recombinant Glutamate Oxidase: Comparison of Crosslinking Agents in Terms of Enzyme Loading and Efficiency Parameters. <i>Sensors</i> , 2016 , 16,	3.8	14
78	Electropolymerized phenol derivatives as permselective polymers for biosensor applications. <i>Analyst, The</i> , 2015 , 140, 3607-15	5	16
77	Simultaneous telemetric monitoring of brain glucose and lactate and motion in freely moving rats. <i>Analytical Chemistry</i> , 2013 , 85, 10282-8	7.8	68
76	Further in-vitro characterization of an implantable biosensor for ethanol monitoring in the brain. <i>Sensors</i> , 2013 , 13, 9522-35	3.8	15
75	Improvement and characterization of surfactant-modified Prussian blue screen-printed carbon electrodes for selective H ₂ O ₂ detection at low applied potentials. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 674, 48-56	4.1	43
74	Amperometric microbiosensor as an alternative tool for investigation of D-serine in brain. <i>Amino Acids</i> , 2012 , 43, 1887-94	3.5	9
73	Development and characterization of an implantable biosensor for telemetric monitoring of ethanol in the brain of freely moving rats. <i>Analytical Chemistry</i> , 2012 , 84, 7072-9	7.8	32
72	In vivo characterisation of a Nafion [®] -modified Pt electrode for real-time nitric oxide monitoring in brain extracellular fluid. <i>Analytical Methods</i> , 2012 , 4, 550	3.2	19
71	Surfactant-promoted Prussian Blue-modified carbon electrodes: enhancement of electro-deposition step, stabilization, electrochemical properties and application to lactate microbiosensors for the neurosciences. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 92, 180-9	6	36
70	Effects of applied potential on the mass of non-conducting poly(ortho-phenylenediamine) electro-deposited on EQCM electrodes: comparison with biosensor selectivity parameters. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5413-21	3.6	13
69	Enzyme immobilization strategies and electropolymerization conditions to control sensitivity and selectivity parameters of a polymer-enzyme composite glucose biosensor. <i>Sensors</i> , 2010 , 10, 6439-62	3.8	48
68	Development of an implantable D-serine biosensor for in vivo monitoring using mammalian D-amino acid oxidase on a poly (o-phenylenediamine) and Nafion-modified platinum-iridium disk electrode. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1454-9	11.8	44
67	Microbiosensors for glucose based on Prussian Blue modified carbon fiber electrodes for in vivo monitoring in the central nervous system. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 748-53	11.8	33
66	Biotelemetric monitoring of brain neurochemistry in conscious rats using microsensors and biosensors. <i>Sensors</i> , 2009 , 9, 2511-23	3.8	44
65	Development of a voltammetric technique for monitoring brain dopamine metabolism: compensation for interference caused by DOPAC electrogenerated during homovanillic acid detection. <i>Analyst, The</i> , 2009 , 134, 893-8	5	11
64	Contributions by a novel edge effect to the permselectivity of an electrosynthesized polymer for microbiosensor applications. <i>Analytical Chemistry</i> , 2009 , 81, 3911-8	7.8	30

63	Real-time monitoring of brain tissue oxygen using a miniaturized biotelemetric device implanted in freely moving rats. <i>Analytical Chemistry</i> , 2009 , 81, 2235-41	7.8	54
62	Novel integrated microdialysis-amperometric system for in vitro detection of dopamine secreted from PC12 cells: design, construction, and validation. <i>Analytical Biochemistry</i> , 2008 , 380, 323-30	3.1	18
61	Poly(o-phenylenediamine) electrosynthesized in the absence of added background electrolyte provides a new permselectivity benchmark for biosensor applications. <i>Electrochemistry Communications</i> , 2008 , 10, 1078-1081	5.1	23
60	Oxygen tolerance of an implantable polymer/enzyme composite glutamate biosensor displaying polycation-enhanced substrate sensitivity. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1466-73	11.8	64
59	Development and characterization in vitro of a catalase-based biosensor for hydrogen peroxide monitoring. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2994-3000	11.8	36
58	Modifications of Poly(o-phenylenediamine) Permselective Layer on Pt-Ir for Biosensor Application in Neurochemical Monitoring. <i>Sensors</i> , 2007 , 7, 420-437	3.8	57
57	Control of the oxygen dependence of an implantable polymer/enzyme composite biosensor for glutamate. <i>Analytical Chemistry</i> , 2006 , 78, 2352-9	7.8	75
56	The efficiency of immobilised glutamate oxidase decreases with surface enzyme loading: an electrostatic effect, and reversal by a polycation significantly enhances biosensor sensitivity. <i>Analyst, The</i> , 2006 , 131, 68-72	5	46
55	Polymer-enzyme composite biosensor with high glutamate sensitivity and low oxygen dependence. <i>Analytical Chemistry</i> , 2005 , 77, 1196-9	7.8	53
54	Comparisons of platinum, gold, palladium and glassy carbon as electrode materials in the design of biosensors for glutamate. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1521-8	11.8	111
53	The selectivity of electrosynthesised polymer membranes depends on the electrode dimensions: implications for biosensor applications. <i>Chemical Communications</i> , 2004 , 2128-30	5.8	26
52	Comparison of simple aromatic amines for electrosynthesis of permselective polymers in biosensor fabrication. <i>Analyst, The</i> , 2003 , 128, 905	5	38
51	Characterization in vitro and in vivo of the oxygen dependence of an enzyme/polymer biosensor for monitoring brain glucose. <i>Journal of Neuroscience Methods</i> , 2002 , 119, 135-42	3	87
50	Voltammetry In Vivo for Chemical Analysis of the Living Brain 2000 ,		3
49	An amperometric glucose-oxidase/poly(o-phenylenediamine) biosensor for monitoring brain extracellular glucose: in vivo characterisation in the striatum of freely-moving rats. <i>Journal of Neuroscience Methods</i> , 1998 , 79, 65-74	3	93
48	Behaviourally induced changes in extracellular levels of brain glutamate monitored at 1 s resolution with an implanted biosensor. <i>Analytical Communications</i> , 1998 , 35, 87-89		37
47	Continuous monitoring of extracellular glucose concentrations in the striatum of freely moving rats with an implanted glucose biosensor. <i>Journal of Neurochemistry</i> , 1998 , 70, 391-6	6	94
46	Major differences in the behaviour of carbon paste and carbon fibre electrodes in a protein-lipid matrix: implications for voltammetry in vivo. <i>Analyst, The</i> , 1998 , 123, 2899-903	5	18

45	Monitoring brain chemistry in vivo: voltammetric techniques, sensors, and behavioral applications. <i>Critical Reviews in Neurobiology</i> , 1998 , 12, 69-127		84
44	Biosensor for neurotransmitter L-glutamic acid designed for efficient use of L-glutamate oxidase and effective rejection of interference. <i>Analyst, The</i> , 1997 , 122, 1419-24	5	111
43	Strategies for decreasing ascorbate interference at glucose oxidase-modified poly(o-phenylenediamine)-coated electrodes. <i>Analyst, The</i> , 1996 , 121, 773	5	41
42	Characterization of carbon paste electrodes in vitro for simultaneous amperometric measurement of changes in oxygen and ascorbic acid concentrations in vivo. <i>Analyst, The</i> , 1996 , 121, 761-6	5	50
41	On the significance of brain extracellular uric acid detected with in-vivo monitoring techniques: a review. <i>Behavioural Brain Research</i> , 1995 , 71, 33-49	3-4	29
40	Characterisation in vitro of a naphthoquinone-mediated glucose oxidase-modified carbon paste electrode designed for neurochemical analysis in vivo. <i>Electrochimica Acta</i> , 1995 , 40, 2791-2797	6-7	11
39	Effect of probe size on the concentration of brain extracellular uric acid monitored with carbon paste electrodes. <i>Journal of Neurochemistry</i> , 1994 , 62, 1496-502	6	32
38	Fixed versus removable microdialysis probes for in vivo neurochemical analysis: implications for behavioral studies. <i>Journal of Neurochemistry</i> , 1994 , 63, 1407-15	6	38
37	Partial characterization in vitro of glucose oxidase-modified poly(phenylenediamine)-coated electrodes for neurochemical analysis in vivo. <i>Electroanalysis</i> , 1994 , 6, 369-379	3	64
36	Microvoltammetric techniques and sensors for monitoring neurochemical dynamics in vivo. A review. <i>Analyst, The</i> , 1994 , 119, 767-79	5	235
35	Efficient glucose detection in anaerobic solutions using an enzyme-modified electrode designed to detect H ₂ O ₂ : implications for biomedical applications. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 2483		8
34	Characterization of Glucose Oxidase-Modified Poly(phenylenediamine)-Coated Electrodes in vitro and in vivo: Homogeneous Interference by Ascorbic Acid in Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 1994 , 66, 1754-1761	7.8	162
33	Sensor-tissue interactions in neurochemical analysis with carbon paste electrodes in vivo. <i>Analyst, The</i> , 1993 , 118, 433-8	5	29
32	Homogeneous mechanism of ascorbic acid interference in hydrogen peroxide detection at enzyme-modified electrodes. <i>Analytical Chemistry</i> , 1992 , 64, 453-6	7.8	51
31	REPLY FROM R. D. O'NEILL. <i>Journal of Neurochemistry</i> , 1992 , 59, 785-786	6	1
30	Strategies for reducing ascorbate interference at glucose oxidase modified conducting organic salt electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 334, 183-194	4-1	26
29	Anomalously high concentrations of brain extracellular uric acid detected with chronically implanted probes: implications for in vivo sampling techniques. <i>Journal of Neurochemistry</i> , 1991 , 57, 22-9 ⁶		39
28	The oxidation of ascorbic acid at carbon paste electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 279, 109-121		49

27	Stearate-modified carbon paste electrodes for detecting dopamine in vivo: decrease in selectivity caused by lipids and other surface-active agents. <i>Analytical Chemistry</i> , 1990 , 62, 2347-51	7.8	31
26	A new method for determining ionic solvent transport numbers and free energy of transfer of electrolytes from water to mixed aqueous solvents. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 99		2
25	Uric acid levels and dopamine transmission in rat striatum: diurnal changes and effects of drugs. <i>Brain Research</i> , 1990 , 507, 267-72	3.7	20
24	Altered response of carbon paste electrodes after contact with brain tissue. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 261, 463-469		14
23	Selectivity of stearate-modified carbon paste electrodes for dopamine and ascorbic acid. <i>Analytical Chemistry</i> , 1989 , 61, 2323-2324	7.8	19
22	The effects of anxiolytic and anxiogenic benzodiazepine receptor ligands on motor activity and levels of ascorbic acid in the nucleus accumbens and striatum of the rat. <i>Neuropharmacology</i> , 1989 , 28, 509-14	5.5	8
21	Dopamine in the basal ganglia and benzodiazepine-induced sedation. <i>Neuropharmacology</i> , 1988 , 27, 589-95	5.9	20
20	In vivo voltammetry--present electrodes and methods. <i>Neuroscience</i> , 1988 , 25, 389-400	3.9	133
19	Effects of an anxiogenic benzodiazepine receptor ligand on motor activity and dopamine release in nucleus accumbens and striatum in the rat. <i>Journal of Neuroscience</i> , 1987 , 7, 2917-26	6.6	53
18	Effects of light reversal on the circadian pattern of motor activity and voltammetric signals recorded in rat forebrain. <i>Journal of Physiology</i> , 1986 , 374, 91-101	3.9	35
17	Microcomputer-controlled voltammetry in the analysis of transmitter release in rat brain. <i>Annals of the New York Academy of Sciences</i> , 1986 , 473, 337-48	6.5	4
16	Adenosine modulation of striatal neurotransmitter release monitored in vivo using voltammetry. <i>Neuroscience Letters</i> , 1986 , 63, 11-6	3.3	30
15	Effects of intranigral injection of taurine and GABA on striatal dopamine release monitored voltammetrically in the unanaesthetized rat. <i>Brain Research</i> , 1986 , 382, 28-32	3.7	20
14	Circadian changes in extracellular ascorbate in rat cortex, accumbens, striatum and hippocampus: correlations with motor activity. <i>Neuroscience Letters</i> , 1985 , 60, 331-6	3.3	39
13	Detection of homovanillic acid in vivo using microcomputer-controlled voltammetry: simultaneous monitoring of rat motor activity and striatal dopamine release. <i>Neuroscience</i> , 1985 , 14, 753-63	3.9	38
12	Simultaneous monitoring of dopamine release in rat frontal cortex, nucleus accumbens and striatum: effect of drugs, circadian changes and correlations with motor activity. <i>Neuroscience</i> , 1985 , 16, 49-55	3.9	86
11	Voltammetric carbon paste electrodes monitor uric acid and not 5-HIAA at the 5-hydroxyindole potential in the rat brain. <i>Neuroscience Letters</i> , 1984 , 45, 39-46	3.3	51
10	Voltammetrically monitored brain ascorbate as an index of excitatory amino acid release in the unrestrained rat. <i>Neuroscience Letters</i> , 1984 , 52, 227-33	3.3	106

9	The development of linear sweep voltammetry with carbon paste electrodes in vivo. <i>Journal of Neuroscience Methods</i> , 1983 , 8, 263-73	3	34
8	Washburn numbers. Part 5. Relative solvent transport numbers for ion constituents in the dioxan + water and dimethylsulphoxide + water systems. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 2289		14
7	The monitoring of ascorbate and monoamine transmitter metabolites in the striatum of unanaesthetised rats using microprocessor-based voltammetry. <i>Neuroscience</i> , 1983 , 9, 87-93	3.9	46
6	The compartment model for chronically implanted voltammetric electrodes in the rat brain. <i>Neuroscience Letters</i> , 1983 , 38, 175-80	3.3	16
5	The effect of unilateral cortical lesions on the circadian changes in rat striatal ascorbate and homovanillic acid levels measured in vivo using voltammetry. <i>Neuroscience Letters</i> , 1983 , 42, 105-10	3.3	67
4	The origin of circadian and amphetamine-induced changes in the extracellular concentration of brain ascorbate. <i>Neurochemistry International</i> , 1983 , 5, 773-8	4.4	34
3	Circadian changes in homovanillic acid and ascorbate levels in the rat striatum using microprocessor-controlled voltammetry. <i>Neuroscience Letters</i> , 1982 , 34, 189-93	3.3	49
2	Linear sweep voltammetry with carbon paste electrodes in the rat striatum. <i>Neuroscience</i> , 1982 , 7, 1945-54	3.4	123
1	Washburn numbers. Part 4. The Erdey-Grúz experiment. Relative solvent transport numbers for ion constituents in mixtures of water with raffinose, glycine, allyl alcohol, dimethylsulphoxide and dioxan. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982 , 78, 1431		11