

Soichi Yabuki

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Electrode Reduction Activities of <i>Geobacter sulfurreducens</i> and an Enriched Consortium in an Air-Cathode Microbial Fuel Cell. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7348-7355.	1.4	192
2	Electrical activity controlling system for a mediator-coexisting alcohol dehydrogenase-NAD conductive membrane. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 277, 179-187.	0.3	136
3	Amperometric L-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples. <i>Analytica Chimica Acta</i> , 1995, 314, 233-239.	2.6	114
4	Electro-conductive enzyme membrane. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 945.	2.0	80
5	Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor. <i>Analytica Chimica Acta</i> , 1998, 364, 173-179.	2.6	72
6	High-throughput flow-injection analysis of glucose and glutamate in food and biological samples by using enzyme/polyion complex-bilayer membrane-based electrodes as the detectors. <i>Biosensors and Bioelectronics</i> , 1998, 13, 809-815.	5.3	65
7	Amperometric determination of pyruvate, phosphate and urea using enzyme electrodes based on pyruvate oxidase-containing poly(vinyl alcohol)/polyion complex-bilayer membrane. <i>Electrochimica Acta</i> , 2000, 45, 2945-2952.	2.6	64
8	Rapid measurement of transaminase activities using an amperometric L-glutamate-sensing electrode based on a glutamate oxidase-polyion complex-bilayer membrane. <i>Sensors and Actuators B: Chemical</i> , 1998, 52, 23-29.	4.0	61
9	Amperometric enzyme electrode with fast response to glucose using a layer of lipid-modified glucose oxidase and Nafion anionic polymer. <i>Analytica Chimica Acta</i> , 1993, 274, 201-207.	2.6	58
10	Application of integrated SECM ultra-micro-electrode and AFM force probe to biosensor surfaces. <i>Bioelectrochemistry</i> , 2004, 63, 217-224.	2.4	50
11	Highly-sensitive measurement of hydroquinone with an enzyme electrode. <i>Biosensors and Bioelectronics</i> , 1991, 6, 305-310.	5.3	49
12	Hydrogen peroxide determination based on a glassy carbon electrode covered with polyion complex membrane containing peroxidase and mediator. <i>Sensors and Actuators B: Chemical</i> , 2000, 65, 49-51.	4.0	47
13	Electrochemically amplified detection for lipopolysaccharide using ferrocenylboronic acid. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1527-1531.	5.3	44
14	Enzyme Ultra-thin Layer Electrode Prepared by the Co-adsorption of Poly-L-lysine and Glucose Oxidase onto a Mercaptopropionic Acid-Modified Gold Surface. <i>Chemistry Letters</i> , 1996, 25, 251-252.	0.7	41
15	Rapid determination of glucose and sucrose by an amperometric glucose-sensing electrode combined with an invertase/mutarotase-attached measuring cell. <i>Biosensors and Bioelectronics</i> , 1997, 12, 1013-1020.	5.3	41
16	Amperometric glucose-sensing electrode based on carbon paste containing poly (ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Tc 300, 59-64.	2.6	40
17	D-Fructose sensing electrode based on electron transfer of D-fructose dehydrogenase at colloidal gold-enzyme modified electrode. <i>Electroanalysis</i> , 1997, 9, 23-25.	1.5	40
18	Preparation of a microperoxidase and ferrocene-immobilized polyion complex membrane for the detection of hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 1999, 468, 117-120.	1.9	40

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19	L-Malate-sensing electrode based on malate dehydrogenase and NADH oxidase. <i>Analytica Chimica Acta</i> , 1991, 245, 145-150.	2.6	39
20	Amperometric Determination of Acetic Acid with a Trienzyme/Poly(dimethylsiloxane)-Bilayer-Based Sensor. <i>Analytical Chemistry</i> , 2001, 73, 5738-5742.	3.2	39
21	Use of a siloxane polymer for the preparation of amperometric sensors: O ₂ and NO sensors and enzyme sensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 489-493.	4.0	37
22	Microbioassay System for an Anti-cancer Agent Test Using Animal Cells on a Microfluidic Gradient Mixer. <i>Analytical Sciences</i> , 2006, 22, 87-90.	0.8	35
23	Amperometric Biosensors Using Poly-L-Lysine/Poly (styrenesulfonate) Membranes with Immobilized Enzymes. <i>Electrochemistry</i> , 1995, 63, 1100-1105.	0.3	35
24	Modifications to a carbon paste glucose-sensing enzyme electrode and a reduction in the electrochemical interference from L-ascorbate. <i>Biosensors and Bioelectronics</i> , 1995, 10, 353-358.	5.3	34
25	Glucose-Sensing Electrode Based on Carbon Paste Containing Ferrocene and Polyethylene Glycol-Modified Enzyme. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 2849-2851.	2.0	33
26	Preparation and characterization of an electroconductive membrane containing glutamate dehydrogenase, NADP, and mediator. <i>Biosensors and Bioelectronics</i> , 1991, 6, 311-315.	5.3	33
27	Glucose-sensing carbon paste electrode containing polyethylene glycol-modified glucose oxidase. <i>Biosensors and Bioelectronics</i> , 1992, 7, 695-700.	5.3	33
28	Flow injection analysis of L-lactic acid using an enzyme-polyion complex-coated electrode as the detector. <i>Talanta</i> , 1996, 43, 1815-1820.	2.9	33
29	Voltammetric enzyme sensor for urea using mercaptohydroquinone-modified gold electrode as the base transducer. <i>Biosensors and Bioelectronics</i> , 1997, 12, 321-328.	5.3	33
30	Enzyme electrodes based on self-assembled monolayers of thiol compounds on gold. <i>Electrochimica Acta</i> , 1999, 44, 3833-3838.	2.6	32
31	Glucose-Sensing Electrode Based on Glucose Oxidase-Attached Polyion Complex Membrane Containing Peroxidase and Ferrocene. <i>Electroanalysis</i> , 2001, 13, 380-383.	1.5	31
32	Ferrocene-attached L-lysine polymers as mediators for glucose-sensing electrodes. <i>Analytica Chimica Acta</i> , 1993, 281, 483-487.	2.6	29
33	Carbon paste electrode incorporated with cobalt(II) octaethoxyphthalocyanine for the amperometric detection of hydrogen peroxide. <i>Electroanalysis</i> , 1995, 7, 706-709.	1.5	29
34	Amperometric Alcohol-Sensing Electrode Based on a Polyion Complex Membrane Containing Alcohol Oxidase. <i>Analytical Sciences</i> , 1997, 13, 83-87.	0.8	29
35	Polyelectrolyte Complex Membranes for Immobilizing Biomolecules, and Their Applications to Bio-analysis. <i>Analytical Sciences</i> , 2011, 27, 695-702.	0.8	28
36	Glucose sensor based on carbon paste electrode incorporating poly(ethylene glycol) -modified glucose oxidase and various mediators. <i>Analytica Chimica Acta</i> , 1995, 304, 33-39.	2.6	27

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37	Use of Polydimethylsiloxane for Constructing Amperometric Glucose-Sensing Enzyme Electrode with Low Interference Level. <i>Electroanalysis</i> , 2001, 13, 370-374.	1.5	23
38	Enzymatically amplified electrochemical detection for lipopolysaccharide using ferrocene-attached polymyxin B and its analogue. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2080-2084.	5.3	21
39	Preparation of d-amino acid oxidase-immobilized polyion complex membranes. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 142-146.	4.0	18
40	Rapid and accurate determination of NADH by an amperometric sensor with a bilayer membrane consisting of a polyion complex layer and an NADH oxidase layer. <i>Sensors and Actuators B: Chemical</i> , 2000, 65, 46-48.	4.0	17
41	Amperometric measurement of ds-DNA content using a peroxidase-modified electrode. <i>Bioelectrochemistry</i> , 2004, 63, 257-259.	2.4	17
42	Amperometric Glucose Sensor Based on a Polydimethyl Siloxane/Enzyme-Bilayer Membrane. <i>Electrochemistry</i> , 1999, 67, 1138-1140.	0.6	17
43	Amperometric Measurement of Nitric Oxide (NO) Using an Electrode Coated with Polydimethylsiloxane. <i>Chemistry Letters</i> , 2000, 29, 802-803.	0.7	16
44	Choline-sensing electrode based on polyethylene glycol-modified enzyme and mediator. <i>Sensors and Actuators B: Chemical</i> , 1994, 20, 159-162.	4.0	15
45	Flow injection analysis for glucose using an amperometric enzyme electrode based on lipid-modified glucose oxidase as the detector. <i>Biosensors and Bioelectronics</i> , 1994, 9, 411-414.	5.3	15
46	Preparation of a carbon paste/alcohol dehydrogenase electrode using polyethylene glycol-modified enzyme and oil-soluble mediator. <i>Sensors and Actuators B: Chemical</i> , 2000, 65, 147-149.	4.0	15
47	Flow injection analysis of acetic acid in food samples by using trienzyme/poly(dimethylsiloxane)-bilayer membrane-based electrode as the detector. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 195-198.	4.0	15
48	Immobilization of polyglutamate-glucose oxidase onto a cysteamine-modified gold electrode. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 187-190.	4.0	13
49	CHEMILUMINESCENCE RESPONSE OF A HEMIN-GLUCOSE OXIDASE COMPLEX TO GLUCOSE. <i>Analytical Sciences</i> , 1991, 7, 799-800.	0.8	12
50	Surface modification of thin polyion complex film for surface plasmon resonance immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 320-325.	4.0	12
51	Preparation of a Cellulose-based Enzyme Membrane Using Ionic Liquid to Lengthen the Duration of Enzyme Stability. <i>Analytical Sciences</i> , 2012, 28, 373-377.	0.8	12
52	Long-Term Stability of a Cellulose-Based Glucose Oxidase Membrane. <i>Materials</i> , 2014, 7, 899-905.	1.3	12
53	Electrical communication of polyethylene glycol-modified glucose oxidase in carbon paste and its application to the assay of glucose. <i>Sensors and Actuators B: Chemical</i> , 1993, 13, 166-168.	4.0	10
54	Electrochemiluminescence of Luminol Generated at Self-Assembled Monolayer of Ferrocenylalkanethiol on Gold Electrode. <i>Chemistry Letters</i> , 2000, 29, 1330-1331.	0.7	10

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55	Preparation of amperometric glucose sensor based on electrochemically polymerized films of indole derivatives. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 651-653.	4.0	10
56	Surface Modification of Thin Polyion Complex Film with a High Specific Binding Affinity and Prevention of Non-specific Adsorption in Surface Plasmon Resonance Immunoassay. <i>Electrochemistry</i> , 2006, 74, 121-124.	0.6	10
57	AMPEROMETRIC ENZYME ELECTRODE BASED ON DEHYDROGENASE AND NADH OXIDASE. <i>Analytical Sciences</i> , 1991, 7, 871-874.	0.8	9
58	Amperometric enzyme electrode with the use of dehydrogenase and NAD(P)H oxidase. <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 574-575.	4.0	9
59	Permeation regulation of charged species by the component change of polyion complex membranes. <i>Analytical Biochemistry</i> , 2008, 375, 141-143.	1.1	9
60	Synthesis and galectin-binding activities of mercaptododecyl glycosides containing a terminal β -galactosyl group. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1265-1269.	1.0	9
61	How to Lengthen the Long-Term Stability of Enzyme Membranes: Trends and Strategies. <i>Catalysts</i> , 2017, 7, 36.	1.6	9
62	Amperometric L-Lactate-Sensing Electrode Using an Enzyme Ultra-thin Layer Produced through the Co-adsorption of Poly-L-Lysine and Lactate Oxidase onto Mercaptoalkanoic Acid-Modified Gold Surface. <i>Electrochemistry</i> , 1996, 64, 1266-1268.	0.3	9
63	Electrochemical measurement of phenothiazine-interacted DNA. <i>Bioelectrochemistry</i> , 2004, 63, 253-255.	2.4	8
64	Supporting Materials That Improve the Stability of Enzyme Membranes. <i>Analytical Sciences</i> , 2014, 30, 213-217.	0.8	8
65	Preparation of a Glucose-Sensing Electrode Based on Glucose Oxidase-Attached Polyion Complex Membrane Containing Microperoxidase and Ferrocene. <i>Electrochemistry</i> , 2000, 68, 853-855.	0.6	8
66	Coulometric measuring system based on carbon felt electrode and glucose oxide. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 750-752.	4.0	7
67	Highly-Sensitive Measurement of Dihydroxyphenols Using Carbon Felt Electrode Impregnated with Fructose Dehydrogenase-Containing Solution. <i>Chemistry Letters</i> , 1994, 23, 1569-1572.	0.7	6
68	Rapid Measurement of Cholinesterase Activity Using an Amperometric Enzyme Electrode Based on Lipid-Modified Choline Oxidase.. <i>Analytical Sciences</i> , 1995, 11, 127-129.	0.8	6
69	Amperometric Biosensors Using an Enzyme-Containing Polyion Complex. <i>ACS Symposium Series</i> , 1998, , 46-56.	0.5	6
70	Roles of Interfacial Functions in Analytical Chemistry. Current response to D-fructose based on electron transfer from fructose dehydrogenase incorporated in a polyion complex membrane.. <i>Bunseki Kagaku</i> , 1998, 47, 1103-1105.	0.1	6
71	Hydrogen peroxide biosensor based on a polyion complex membrane containing peroxidase and toluidine blue, and its application to the fabrication of a glucose sensor. <i>Mikrochimica Acta</i> , 2009, 164, 173-176.	2.5	6
72	Electrically Regulated Biocatalytic Processes of Redox Enzymes Embedded in Conducting Polymer Membrane. <i>Annals of the New York Academy of Sciences</i> , 1990, 613, 827-831.	1.8	5

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73	Enzyme electrode response in solution containing enzyme substrate and species that associates with the substrate. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 613-616.	4.0	5
74	Enzyme Sensor Utilizing an Immobilized Mediator. , 1992, , 167-180.		5
75	Construction of Carbon Paste Enzyme Electrodes for the Measurement of L-Malate with Polyethylene Glycol-Modified Malate Dehydrogenase. <i>Electrochemistry</i> , 1995, 63, 1143-1144.	0.3	5
76	Amperometric Enzyme Electrode for L-Lactate with the Use of Lipid-Modified Lactate Oxidase. <i>Electrochemistry</i> , 1993, 61, 891-892.	0.3	4
77	Preparation of a Hydrogen Peroxide-Sensing Electrode coated with a Bilayer consisting of a Polyion Complex Membrane Layer on a Hemin/Ferrocene Layer and a Reduction in the Current caused by the Electrochemical Interferants. <i>Electrochemistry</i> , 2003, 71, 408-410.	0.6	4
78	Amperometric Enzyme Electrode Prepared by the Electro-deposition of Colloidal Gold/Glucose Oxidase onto Glassy Carbon. <i>Electrochemistry</i> , 1995, 63, 654-659.	0.3	4
79	Electrical control of the glutamate dehydrogenase reaction in polypyrrole membranes. <i>Bioelectrochemistry</i> , 1992, 28, 489-493.	1.0	3
80	Amperometric Maltose-Sensing Bi-Enzyme Electrodes: Comparison between .ALPHA.-Glucosidase/Pyranose Oxidase- and Glucoamylase/Glucose Oxidase-Based Electrodes.. <i>Analytical Sciences</i> , 1996, 12, 145-148.	0.8	3
81	Analytical Chemistry for Advanced Technologies. Preparation of an acetylcholine sensor based on an enzyme-immobilized polyion complex membrane.. <i>Bunseki Kagaku</i> , 2001, 50, 899-901.	0.1	3
82	Enzyme and Mediator-coadsorbed Carbon Felt Electrode for Electrochemical Detection of Glucose Covered with Polymer Layers Based on Layer-by-Layer Technique. <i>Analytical Sciences</i> , 2015, 31, 693-697.	0.8	3
83	Amperometric glucose sensor using glassy carbon electrode anodized in 1, 5-pentanediol as the base transducer. <i>IEEJ Transactions on Sensors and Micromachines</i> , 1999, 119, 554-559.	0.0	3
84	Glucose sensing carbon paste electrode by using polyethylene glycol-modified glucose oxidase. , 1992, , 149-152.		2
85	Amperometric Enzyme Sensor for Glucose with the Use of Glucose Oxidase and Carbon Paste Electrode Modified with Catalyst for Hydrogen Peroxide Oxidation. <i>Electrochemistry</i> , 1992, 60, 1141-1142.	0.3	2
86	Amperometric Measurement of Creatine Kinase Activity Using an ADP-sensing Bienzyme Electrode. <i>Electrochemistry</i> , 2003, 71, 414-416.	0.6	2
87	Preparation of Carbon Paste-Enzyme Electrode using Polyethylene Glycol-Alcohol Dehydrogenase Hybrid. <i>Electrochemistry</i> , 1997, 65, 471-473.	0.3	2
88	Construction of a Bioreactor with Immobilized Yeast Cells for Production of a Low-phenylalanine Peptide Mixture as a Phenylketonuria Foodstuff. <i>Agricultural and Biological Chemistry</i> , 1988, 52, 2989-2994.	0.3	1
89	Electrical control of the glutamate dehydrogenase reaction in polypyrrole membranes. <i>Journal of Electroanalytical Chemistry</i> , 1992, 343, 489-493.	1.9	1
90	Measurement of DNA Amount on Gold Plate Based on the Oxidation Current of Guanine. <i>Bunseki Kagaku</i> , 2006, 55, 975-978.	0.1	1

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91	Preparation of <small>l</small> -lactate Biosensor that uses Polyion Complex Membrane Containing Peroxidase and Ferrocene. <i>Electrochemistry</i> , 2008, 76, 552-554.	0.6	1
92	Voltammetric Acetylcholine Sensor using Mercaptohydroquinone Monolayer-Attached Gold Electrode as the Base Transducer. <i>Electrochemistry</i> , 1997, 65, 487-489.	0.3	1
93	Amperometric Glucose-Sensing Electrode Based on Colloidal Gold/Glucose Oxidase-Modified Glassy Carbon. <i>Electrochemistry</i> , 1996, 64, 1256-1258.	0.3	0