Koji Sode

List of Publications by Year
in descending order

370 papers	9,525 citations	41258 49 h-index	74018 75 g-index
379 all docs	379 docs citations	379 times ranked	7319 citing authors

#	Article	IF	Citations
1	Uniform molecularly imprinted microspheres and nanoparticles prepared by precipitation polymerization: The control of particle size suitable for different analytical applications. Analytica Chimica Acta, 2007, 584, 112-121.	2.6	382
2	Review of Glucose Oxidases and Glucose Dehydrogenases: A Bird's Eye View of Glucose Sensing Enzymes. Journal of Diabetes Science and Technology, 2011, 5, 1068-1076.	1.3	345
3	Novel electrochemical sensor system for protein using the aptamers in sandwich manner. Biosensors and Bioelectronics, 2005, 20, 2168-2172.	5.3	259
4	Selection of DNA Aptamers That Recognize Î±-Synuclein Oligomers Using a Competitive Screening Method. Analytical Chemistry, 2012, 84, 5542-5547.	3.2	167
5	Selection of DNA aptamer against prostate specific antigen using a genetic algorithm and application to sensing. Biosensors and Bioelectronics, 2010, 26, 1386-1391.	5.3	147
6	Improvement of Aptamer Affinity by Dimerization. Sensors, 2008, 8, 1090-1098.	2.1	136
7	An Iron-regulated Gene, magA, Encoding an Iron Transport Protein of Magnetospirillum sp. Strain AMB-1. Journal of Biological Chemistry, 1995, 270, 28392-28396.	1.6	134
8	Selection of DNA aptamers against insulin and construction of an aptameric enzyme subunit for insulin sensing. Biosensors and Bioelectronics, 2009, 24, 1116-1120.	5.3	116
9	Screening and Improvement of an Anti-VEGF DNA Aptamer. Molecules, 2010, 15, 215-225.	1.7	116
10	Electrochemical Detection of Protein Using a Double Aptamer Sandwich. Analytical Letters, 2004, 37, 2901-2909.	1.0	115
11	Continuous glucose monitoring systems - Current status and future perspectives of the flagship technologies in biosensor research -. Biosensors and Bioelectronics, 2021, 181, 113054.	5.3	114
12	Development of a novel glucose enzyme fuel cell system employing protein engineered PQQ glucose dehydrogenase. Biosensors and Bioelectronics, 2005, 20, 2145-2150.	5.3	109
13	A novel wireless glucose sensor employing direct electron transfer principle based enzyme fuel cell. Biosensors and Bioelectronics, 2007, 22, 2250-2255.	5.3	103
14	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. Applied and Environmental Microbiology, 1992, 58, 686-689.	1.4	98
15	Biosensor for detection of organophosphate and carbamate insecticides. Electroanalysis, 1992, 4, 249-252.	1.5	97
16	Production of hydrogen and methane from organic solid wastes by phase-separation of anaerobic process. Bioresource Technology, 2007, 98, 1861-1865.	4.8	96
17	Glutamate production from CO2 by Marine CyanobacteriumSynechococcus sp.. Applied Biochemistry and Biotechnology, 1991, 28-29, 157-167.	1.4	95
18	Gene transfer in magnetic bacteria: transposon mutagenesis and cloning of genomic DNA fragments required for magnetosome synthesis. Journal of Bacteriology, 1992, 174, 2748-2753.	1.0	93

#	Article	IF	Citations
19	Structural analysis of fungus-derived FAD glucose dehydrogenase. Scientific Reports, 2015, 5, 13498.	1.6	89
20	BioCapacitor: A novel principle for biosensors. Biosensors and Bioelectronics, 2016, 76, 20-28.	5.3	80
21	Selection of DNA aptamers against VEGF165 using a protein competitor and the aptamer blotting method. Biotechnology Letters, 2008, 30, 829-834.	1.1	74
22	Aptameric Enzyme Subunit for Biosensing Based on Enzymatic Activity Measurement. Analytical Chemistry, 2006, 78, 3296-3303.	3.2	72
23	BioCapacitorâ€"A novel category of biosensor. Biosensors and Bioelectronics, 2009, 24, 1837-1842.	5.3	71
24	Integrated biosensor for glucose and galactose. Analytica Chimica Acta, 1989, 218, 137-142.	2.6	70
25	Towards the use of molecularly imprinted polymers containing imidazoles and bivalent metal complexes for the detection and degradation of organophosphotriester pesticides. Analytica Chimica Acta, 2001, 435, 209-214.	2.6	69
26	A Glycemia Risk Index (GRI) of Hypoglycemia and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings. Journal of Diabetes Science and Technology, 2023, 17, 1226-1242.	1.3	69
27	CO2 removal by high-density culture of a marine cyanobacterium synechococcus sp. using an improved photobioreactor employing light-diffusing optical fibers. Applied Biochemistry and Biotechnology, 1992, 34-35, 449-458.	1.4	68
28	Development of a third-generation glucose sensor based on the open circuit potential for continuous glucose monitoring. Biosensors and Bioelectronics, 2019, 124-125, 216-223.	5.3	68
29	Methanogenesis from acetate and propionate by thermophilic down-flow anaerobic packed-bed reactor. Bioresource Technology, 2008, 99, 4786-4795.	4.8	67
30	Engineering of a greenâ€light inducible gene expression system in <scp>S</scp>ynechocystis sp. <scp>PCC</scp>6803. Microbial Biotechnology, 2014, 7, 177-183.	2.0	66
31	Extended-Range Glucose Sensor Employing Engineered Glucose Dehydrogenases. Analytical Chemistry, 2000, 72, 4689-4693.	3.2	65
32	Fluorescence resonance energy transfer from pyrene to perylene labels for nucleic acid hybridization assays under homogeneous solution conditions. Nucleic Acids Research, 2000, 28, 34e-0.	6.5	64
33	Pyrroloquinoline quinone (PQQ) prevents fibril formation of Î±-synuclein. Biochemical and Biophysical Research Communications, 2006, 349, 1139-1144.	1.0	64
34	Increasing the thermal stability of the water-soluble pyrroloquinoline quinone glucose dehydrogenase by single amino acid replacement. Enzyme and Microbial Technology, 2000, 26, 491-496.	1.6	63
35	Engineering PQQ glucose dehydrogenase with improved substrate specificity. New Biotechnology, 2004, 21, 81-89.	2.7	61
36	FAD dependent glucose dehydrogenases â€" Discovery and engineering of representative glucose sensing enzymes -. Bioelectrochemistry, 2020, 132, 107414.	2.4	61

#	Article	IF	Citations
37	Wireless enzyme sensor system for real-time monitoring of blood glucose levels in fish. Biosensors and Bioelectronics, 2009, 24, 1417-1423.	5.3	59
38	A green-light inducible lytic system for cyanobacterial cells. Biotechnology for Biofuels, 2014, 7, 56.	6.2	59
39	Conjugative gene transfer in marine cyanobacteria: Synechococcus sp., Synechocystis sp. and Pseudanabaena sp.. Applied Microbiology and Biotechnology, 1992, 37, 369-373.	1.7	56
40	Construction of a molecular imprinting catalyst using target analogue template and its application for an amperometric fructosylamine sensor. Biosensors and Bioelectronics, 2003, 18, 1485-1490.	5.3	56
41	A novel thermostable glucose dehydrogenase varying temperature properties by altering its quaternary structures. Enzyme and Microbial Technology, 1996, 19, 82-85.	1.6	55
42	Development of acetylcholine sensor using carbon fiber (amperometric determination). Biosensors and Bioelectronics, 1991, 6, 675-680.	5.3	54
43	Construction and Characterization of Mutant Water-Soluble PQQ Glucose Dehydrogenases with Altered Km Valuesâ€"Site-Directed Mutagenesis Studies on the Putative Active Site. Biochemical and Biophysical Research Communications, 1999, 264, 820-824.	1.0	54
44	Cloning and functional expression of glucose dehydrogenase complex of Burkholderia cepacia in Escherichia coli. Journal of Biotechnology, 2006, 123, 127-136.	1.9	53
45	BioRadioTransmitter: A Self-Powered Wireless Glucose-Sensing System. Journal of Diabetes Science and Technology, 2011, 5, 1030-1035.	1.3	52
46	PQQ glucose dehydrogenase with novel electron transfer ability. Biochemical and Biophysical Research Communications, 2004, 314, 793-797.	1.0	51
47	Review of Fructosyl Amino Acid Oxidase Engineering Research: A Glimpse into the Future of Hemoglobin A1c Biosensing. Journal of Diabetes Science and Technology, 2009, 3, 585-592.	1.3	51
48	Application of bacterial magnetic particles for highly selective mRNA recovery system. Biotechnology Letters, 1993, 7, 688-694.	0.5	50
49	Development of a flow-injection analysis (FIA) enzyme sensor for fructosyl amine monitoring. Analytical and Bioanalytical Chemistry, 2002, 373, 211-214.	1.9	50
50	Amperometric determination of choline and acetylcholine with enzymes immobilized in a photocross-linkable polymer. Analytica Chimica Acta, 1990, 228, 49-53.	2.6	49
51	Development of a compact high-density microbial hydrogen reactor for portable bio-fuel cell system. International Journal of Hydrogen Energy, 2006, 31, 1484-1489.	3.8	47
52	Development of a glucose sensor employing quick and easy modification method with mediator for altering electron acceptor preference. Bioelectrochemistry, 2018, 121, 185-190.	2.4	47
53	Enhancement of the catalytic activity of an artificial phosphotriesterase using a molecular imprinting technique. Biotechnology Letters, 2003, 25, 1075-1080.	1.1	46
54	Novel fungal FAD glucose dehydrogenase derived from Aspergillus niger for glucose enzyme sensor strips. Biosensors and Bioelectronics, 2017, 87, 305-311.	5.3	46

#	Article	IF	Citations
55	Engineered Glucose Oxidase Capable of Quasi-Direct Electron Transfer after a Quick-and-Easy Modification with a Mediator. International Journal of Molecular Sciences, 2020, 21, 1137.	1.8	46
56	Direct electron transfer type disposable sensor strip for glucose sensing employing an engineered FAD glucose dehydrogenase. Enzyme and Microbial Technology, 2013, 52, 123-128.	1.6	45
57	Rational engineering of Aerococcus viridans l-lactate oxidase for the mediator modification to achieve quasi-direct electron transfer type lactate sensor. Biosensors and Bioelectronics, 2020, 151, 111974.	5.3	43
58	Effect of Reparation of Repeat Sequences in the Human Î±-Synuclein on Fibrillation Ability. International Journal of Biological Sciences, 2007, 3, 1-7.	2.6	42
59	Screening of DNA aptamer which binds to Î±-synuclein. Biotechnology Letters, 2010, 32, 643-648.	1.1	42
60	Cloning and expression of the gene encoding catalytic subunit of thermostable glucose dehydrogenase from Burkholderia cepacia in Escherichia coli. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1645, 133-138.	1.1	41
61	Molecular engineering of PQQGDH and its applications. Archives of Biochemistry and Biophysics, 2004, 428, 52-63.	1.4	41
62	Increasing stability of water-soluble PQQ glucose dehydrogenase by increasing hydrophobic interaction at dimeric interface. BMC Biochemistry, 2005, 6, 1.	4.4	41
63	Engineering glucose oxidase to minimize the influence of oxygen on sensor response. Electrochimica Acta, 2014, 126, 158-161.	2.6	41
64	Improving the Gene-Regulation Ability of Small RNAs by Scaffold Engineering in Escherichia coli. ACS Synthetic Biology, 2014, 3, 152-162.	1.9	41
65	Rational design of direct electron transfer type l-lactate dehydrogenase for the development of multiplexed biosensor. Biosensors and Bioelectronics, 2021, 176, 112933.	5.3	40
66	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. Biochemical and Biophysical Research Communications, 2006, 348, 245-252.	1.0	39
67	Screening of DNA Aptamer Against Mouse Prion Protein by Competitive Selection. Prion, 2007, 1, 248-254.	0.9	39
68	The electrochemical behavior of a FAD dependent glucose dehydrogenase with direct electron transfer subunit by immobilization on self-assembled monolayers. Bioelectrochemistry, 2018, 121, 1-6.	2.4	39
69	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. Biosensors and Bioelectronics, 2019, 123, 114-123.	5.3	39
70	Amperometric DNA sensor using the pyrroquinoline quinone glucose dehydrogenaseâ€“avidin conjugate. Biosensors and Bioelectronics, 2002, 17, 1075-1080.	5.3	38
71	Peptide ligand screening of Î±-synuclein aggregation modulators by in silico panning. BMC Bioinformatics, 2007, 8, 451.	1.2	38
72	Design of riboregulators for control of cyanobacterial (Synechocystis) protein expression. Biotechnology Letters, 2014, 36, 287-294.	1.1	38

#	Article	IF	Citations
73	Development of an Enzyme Sensor Utilizing a Novel Fructosyl Amine Oxidase from a Marine Yeast. Electrochemistry, 2000, 68, 869-871.	0.6	37
74	Biofuel cell system employing thermostable glucose dehydrogenase. Biotechnology Letters, 2008, 30, 1753-1758.	1.1	37
75	Microbial BOD Sensor Utilizing Thermophilic Bacteria. Analytical Letters, 1989, 22, 791-801.	1.0	36
76	Molecular Imprinting Catalyst Based Artificial Enzyme Sensor for Fructosylamines. Analytical Letters, 2003, 36, 75-89.	1.0	36
77	Engineering of ligand specificity of periplasmic binding protein for glucose sensing. Biotechnology Letters, 2008, 30, 1453-1460.	1.1	36
78	The inhibitory effect of pyrroloquinoline quinone on the amyloid formation and cytotoxicity of truncated alpha-synuclein. Molecular Neurodegeneration, 2010, 5, 20.	4.4	36
79	Third generation impedimetric sensor employing direct electron transfer type glucose dehydrogenase. Biosensors and Bioelectronics, 2019, 129, 189-197.	5.3	36
80	Thermostable chimeric PQQ glucose dehydrogenase. FEBS Letters, 1995, 364, 325-327.	1.3	35
81	Engineering a chimeric pyrroloquinoline quinone glucose dehydrogenase: improvement of EDTA tolerance, thermal stability and substrate specificity. Protein Engineering, Design and Selection, 1999, 12, 63-70.	1.0	35
82	Screening and Characterization of Fructosyl-Valine-Utilizing Marine Microorganisms. Marine Biotechnology, 2001, 3, 126-132.	1.1	35
83	A new concept for the construction of an artificial dehydrogenase for fructosylamine compounds and its application for an amperometric fructosylamine sensor. Analytica Chimica Acta, 2001, 435, 151-156.	2.6	35
84	A molecularly imprinted catalyst designed by a computational approach in catalysing a transesterification process. Biosensors and Bioelectronics, 2004, 20, 1068-1075.	5.3	35
85	High-rate thermophilic methane fermentation on short-chain fatty acids in a down-flow anaerobic packed-bed reactor. Bioprocess and Biosystems Engineering, 2005, 27, 105-113.	1.7	35
86	Detection system based on the conformational change in an aptamer and its application to simple bound/free separation. Biosensors and Bioelectronics, 2009, 24, 1372-1376.	5.3	35
87	Construction of Mutant Glucose Oxidases with Increased Dye-Mediated Dehydrogenase Activity. International Journal of Molecular Sciences, 2012, 13, 14149-14157.	1.8	34
88	Electrochemical quantification of accelerated FADGDH rates in aqueous nanodroplets. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	34
89	Screening of Aspergillus-derived FAD-glucose dehydrogenases from fungal genome database. Biotechnology Letters, 2011, 33, 2255-2263.	1.1	33
90	On-line monitoring of the viscosity in dextran fermentation using piezoelectric quartz crystal. Biotechnology and Bioengineering, 1990, 36, 636-641.	1.7	32

#	Article	IF	Citations
91	Stabilization of Quaternary Structure of Water-Soluble Quinoprotein Glucose Dehydrogenase. Molecular Biotechnology, 2003, 24, 97-104.	1.3	31
92	Construction of engineered fructosyl peptidyl oxidase for enzyme sensor applications under normal atmospheric conditions. Biotechnology Letters, 2012, 34, 491-497.	1.1	31
93	An Feâ€“S cluster in the conserved Cys-rich region in the catalytic subunit of FAD-dependent dehydrogenase complexes. Bioelectrochemistry, 2016, 112, 178-183.	2.4	31
94	A novel microbial sensor using luminous bacteria. Biosensors and Bioelectronics, 1992, 7, 273-277.	5.3	30
95	Subzero temperature operating biosensor utilizing an organic solvent and quinoprotein glucose dehydrogenase. Biotechnology and Bioengineering, 1993, 42, 251-254.	1.7	30
96	Title is missing!. Biotechnology Letters, 1997, 19, 1073-1077.	1.1	30
97	In silico panning for a non-competitive peptide inhibitor. BMC Bioinformatics, 2007, 8, 11.	1.2	30
98	Development of fructosyl amine oxidase specific to fructosyl valine by site-directed mutagenesis. Protein Engineering, Design and Selection, 2008, 21, 233-239.	1.0	30
99	Development of a screen-printed carbon electrode based disposable enzyme sensor strip for the measurement of glycated albumin. Biosensors and Bioelectronics, 2017, 88, 167-173.	5.3	30
100	On-line monitoring of marine cyanobacterial cultivation based on phycocyanÃ¯n fluorescence. Journal of Biotechnology, 1991, 21, 209-217.	1.9	29
101	Elucidation of the Region Responsible for EDTA Tolerance in PQQ Glucose Dehydrogenases by Constructing Escherichia coli and Acinetobacter calcoaceticus Chimeric Enzymes. Biochemical and Biophysical Research Communications, 1995, 211, 268-273.	1.0	29
102	Subunit Analyses of a Novel Thermostable Glucose Dehydrogenase Showing Different Temperature Properties According to Its Quaternary Structure. Applied Biochemistry and Biotechnology, 1999, 77, 325-336.	1.4	29
103	Essential role of the small subunit of thermostable glucose dehydrogenase from Burkholderia cepacia. Biotechnology Letters, 2004, 26, 1757-1761.	1.1	29
104	Site directed mutagenesis studies of FAD-dependent glucose dehydrogenase catalytic subunit of Burkholderia cepacia. Biotechnology Letters, 2008, 30, 1967-1972.	1.1	29
105	Pyrroloquinoline quinone inhibits the fibrillation of amyloid proteins. Prion, 2010, 4, 26-31.	0.9	29
106	Stabilization of fungi-derived recombinant FAD-dependent glucose dehydrogenase by introducing a disulfide bond. Biotechnology Letters, 2015, 37, 1091-1099.	1.1	29
107	Mediator Preference of Two Different FAD-Dependent Glucose Dehydrogenases Employed in Disposable Enzyme Glucose Sensors. Sensors, 2017, 17, 2636.	2.1	29
108	Minimizing the effects of oxygen interference on l -lactate sensors by a single amino acid mutation in Aerococcus viridans l -lactate oxidase. Biosensors and Bioelectronics, 2018, 103, 163-170.	5.3	29

#	Article	IF	Citations
109	Affinity sensor for haemoglobin A1c based on single-walled carbon nanotube field-effect transistor and fructosyl amino acid binding protein. Biosensors and Bioelectronics, 2019, 129, 254-259.	5.3	29
110	Glucose enzyme electrode using cytochrome b562 as an electron mediator. Biosensors and Bioelectronics, 2003, 18, 699-704.	5.3	28
111	Active site analysis of fructosyl amine oxidase using homology modeling and site-directed mutagenesis. Biotechnology Letters, 2006, 28, 1895-1900.	1.1	28
112	Construction of a Miniaturized Chromatic Acclimation Sensor from Cyanobacteria with Reversed Response to a Light Signal. Scientific Reports, 2016, 6, 37595.	1.6	28
113	Glu742 substitution to Lys enhances the EDTA tolerance ofEscherichia coli PQQ glucose dehydrogenase. Biotechnology Letters, 1994, 16, 455-460.	1.1	27
114	Biodegradation of Formaldehyde by a Formaldehyde-Resistant Bacterium Isolated from Seawater. Applied Biochemistry and Biotechnology, 2001, 91-93, 213-218.	1.4	27
115	Isolation and characterization of a fructosyl-amine oxidase from an Arthrobacter sp.. Biotechnology Letters, 2005, 27, 27-32.	1.1	27
116	SPCE Based Glucose Sensor Employing Novel Thermostable Glucose Dehydrogenase, FADGDH: Blood Glucose Measurement with 150nL Sample in One Second. Journal of Diabetes Science and Technology, 2007, 1, 28-35.	1.3	27
117	Microbial conversion of Î²-ionone by immobilizedAspergillus niger in the presence of an organic solvent. Biotechnology and Bioengineering, 1989, 33, 1191-1195.	1.7	26
118	Screening of marine cyanobacteria for high palmitoleic acid production. FEMS Microbiology Letters, 1995, 133, 137-141.	0.7	26
119	Purification of a marine bacterial glucose dehydrogenase fromCytophaga marinoflava and its application for measurement of 1,5-anhydro-d-glucitol. Applied Biochemistry and Biotechnology, 1996, 56, 301-310.	1.4	26
120	Construction of Engineered Water-soluble PQQ Glucose Dehydrogenase with Improved Substrate Specificity. Biocatalysis and Biotransformation, 2002, 20, 405-412.	1.1	26
121	Functional expression of Phanerochaete chrysosporium cellobiose dehydrogenase flavin domain in Escherichia coli. Biotechnology Letters, 2010, 32, 855-859.	1.1	26
122	Engineering of dye-mediated dehydrogenase property of fructosyl amino acid oxidases by site-directed mutagenesis studies of its putative proton relay system. Biotechnology Letters, 2010, 32, 1123-1129.	1.1	26
123	Production of ÃŽÂ³-linolenic acid from the marine green algaChlorellasp. NKG 042401. FEMS Microbiology Letters, 1993, 107, 163-167.	0.7	25
124	Increased thermal stability of glucose dehydrogenase by cross-linking chemical modification. Biotechnology Letters, 1999, 21, 199-202.	1.1	25
125	The Development and Characterization of an Exogenous Green-Light-Regulated Gene Expression System in Marine Cyanobacteria. Marine Biotechnology, 2015, 17, 245-251.	1.1	25
126	A screening method for DNA aptamers that bind toâ£aâ£specific, unidentified protein in tissue samples. Biotechnology Letters, 2006, 28, 1377-1381.	1.1	24

#	Article	IF	Citations
127	Construction and Characterization of Direct Electron Transfer-Type Continuous Glucose Monitoring System Employing Thermostable Glucose Dehydrogenase Complex. Analytical Letters, 2008, 41, 2363-2373.	1.0	24
128	An Aptamerâ€Based Bound/Free Separation System for Protein Detection. Electroanalysis, 2009, 21, 1297-1302.	1.5	24
129	Detection of Pathogenic Bacteria by Using Zinc Finger Protein Fused with Firefly Luciferase. Analytical Chemistry, 2012, 84, 8028-8032.	3.2	24
130	Scaffoldâ€fused riboregulators for enhanced gene activation in Synechocystis sp. <scp>PCC</scp> 6803. MicrobiologyOpen, 2015, 4, 533-540.	1.2	24
131	Direct electron transfer (DET) mechanism of FAD dependent dehydrogenase complexes â^¼from the elucidation of intra- and inter-molecular electron transfer pathway to the construction of engineered DET enzyme complexesâ^¼. Current Opinion in Electrochemistry, 2018, 12, 92-100.	2.5	24
132	Cumulative effect of amino acid substitution for the development of fructosyl valine-specific fructosyl amine oxidase. Enzyme and Microbial Technology, 2009, 44, 52-56.	1.6	23
133	The effect of amino acid substitution in the imperfect repeat sequences of Î±-synuclein on fibrillation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 998-1003.	1.8	23
134	The development of an autonomous self-powered bio-sensing actuator. Sensors and Actuators B: Chemical, 2014, 196, 429-433.	4.0	23
135	Increased production of recombinant pyrroloquinoline quinone (PQQ) glucose dehydrogenase by metabolically engineered Escherichia coli strain capable of PQQ biosynthesis. Journal of Biotechnology, 1996, 49, 239-243.	1.9	22
136	Development of a compact stacked flatbed reactor with immobilized high-density bacteria for hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 1593-1597.	3.8	22
137	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. Biotechnology Letters, 2008, 30, 421-425.	1.1	22
138	Simultaneous improvement of specificity and affinity of aptamers against Streptococcus mutans by in silico maturation for biosensor development. Biotechnology and Bioengineering, 2014, 111, 454-461.	1.7	22
139	Convenient and Universal Fabrication Method for Antibodyâ€“Enzyme Complexes as Sensing Elements Using the SpyCatcher/SpyTag System. Analytical Chemistry, 2018, 90, 14500-14506.	3.2	22
140	Fructosyl Amine Sensing Based on Prussian Blue Modified Enzyme Electrode. Electrochemistry, 2001, 69, 973-975.	0.6	22
141	Application of microbiological sensors in fermentation processes. Analytica Chimica Acta, 1988, 213, 69-77.	2.6	21
142	Salinity-dependent copy number increase of a marine cyanobacterial endogenous plasmid. FEMS Microbiology Letters, 1991, 90, 95-98.	0.7	21
143	Characterization of iron uptake in the magnetic bacteriumAquaspirillum sp. AMB-1. Applied Biochemistry and Biotechnology, 1993, 39-40, 169-176.	1.4	21
144	Characterization and application of aptamers for Taq DNA polymerase selected using an evolution-mimicking algorithm. Biotechnology Letters, 2006, 28, 1939-1944.	1.1	21

#	Article	IF	Citations
145	The Application of Engineered Glucose Dehydrogenase to a Direct Electronâ€“Transferâ€Type Continuous Glucose Monitoring System and a Compartmentless Biofuel Cell. Analytical Letters, 2007, 40, 431-440.	1.0	21
146	The simple and rapid detection of specific PCR products from bacterial genomes using Zn finger proteins. Nucleic Acids Research, 2008, 36, e68-e68.	6.5	21
147	Development of an electrochemical detection system for measuring DNA methylation levels using methyl CpG-binding protein and glucose dehydrogenase-fused zinc finger protein. Biosensors and Bioelectronics, 2017, 93, 118-123.	5.3	21
148	Continuous operation of an ultra-low-power microcontroller using glucose as the sole energy source. Biosensors and Bioelectronics, 2017, 93, 335-339.	5.3	21
149	Continuous Asymmetric Reduction Of 4-Oxoisophorone By Thermophilic Bacteria Using A Hollow Fiber Reactor. Biocatalysis, 1987, 1, 77-86.	0.9	20
150	The construction of a glucose-sensing luciferase. Biosensors and Bioelectronics, 2009, 25, 76-81.	5.3	20
151	Kinetic Mechanism and Inhibitor Characterization of WNK1 Kinase. Biochemistry, 2009, 48, 10255-10266.	1.2	20
152	Improvement of the VEGF binding ability of DNA aptamers through in silico maturation and multimerization strategy. Journal of Biotechnology, 2015, 212, 99-105.	1.9	20
153	Development toward a novel integrated tear lactate sensor using Schirmer test strip and engineered lactate oxidase. Sensors and Actuators B: Chemical, 2018, 270, 525-529.	4.0	20
154	Fluorescent measurement of 1,5-anhydro-d-glucitol based on a novel marine bacterial glucose dehydrogenase. Enzyme and Microbial Technology, 1998, 22, 269-274.	1.6	19
155	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. Chemical Communications, 2016, 52, 12646-12649.	2.2	19
156	G-Quadruplex Structure Improves the Immunostimulatory Effects of CpG Oligonucleotides. Nucleic Acid Therapeutics, 2019, 29, 224-229.	2.0	19
157	Development of Highly-sensitive Fructosyl-valine Enzyme Sensor Employing Recombinant Fructosyl Amine Oxidase. Electrochemistry, 2003, 71, 442-445.	0.6	19
158	Microbiosensors. Journal of Biotechnology, 1990, 15, 267-281.	1.9	18
159	Electrochemical disinfection of marine bacteria attached on a plastic electrode. Bioelectrochemistry, 1992, 27, 191-198.	1.0	18
160	Engineered Î±-synuclein prevents wild type and familial Parkin variant fibril formation. Biochemical and Biophysical Research Communications, 2005, 335, 432-436.	1.0	18
161	Aptameric enzyme subunit for homogeneous DNA sensing. Biotechnology Letters, 2008, 30, 243-252.	1.1	18
162	BioLC-Oscillator: A Self-Powered Wireless Glucose-Sensing System with the Glucose Dependent Resonance Frequency. Electrochemistry, 2012, 80, 367-370.	0.6	18

#	Article	IF	Citations
163	Partial Peptide of Î±-Synuclein Modified with Small-Molecule Inhibitors Specifically Inhibits Amyloid Fibrillation of Î±-Synuclein. International Journal of Molecular Sciences, 2013, 14, 2590-2600.	1.8	18
164	Electrochemical sensing system employing fructosamine 6â€kinase enables glycated albumin measurement requiring no proteolytic digestion. Biotechnology Journal, 2016, 11, 797-804.	1.8	18
165	Glycogen Production in Marine Cyanobacterial Strain Synechococcus sp. NKBG 15041c. Marine Biotechnology, 2018, 20, 109-117.	1.1	18
166	Development of an Interdigitated Electrode-Based Disposable Enzyme Sensor Strip for Glycated Albumin Measurement. Molecules, 2021, 26, 734.	1.7	18
167	Strategic design and improvement of the internal electron transfer of heme b domain-fused glucose dehydrogenase for use in direct electron transfer-type glucose sensors. Biosensors and Bioelectronics, 2021, 176, 112911.	5.3	18
168	X-ray structure of the direct electron transfer-type FAD glucose dehydrogenase catalytic subunit complexed with a hitchhiker protein. Acta Crystallographica Section D: Structural Biology, 2019, 75, 841-851.	1.1	18
169	A Disposable Electrochemical Glucose Sensor Using Catalytic Subunit of Novel Thermostable Glucose Dehydrogenase. Open Biotechnology Journal, 2007, 1, 26-30.	0.6	18
170	Analysis of the evolution of the thrombin-inhibiting DNA aptamers using a genetic algorithm. Biotechnology Letters, 2006, 28, 1933-1937.	1.1	17
171	Novel fluorescent sensing system for Î±-fructosyl amino acids based on engineered fructosyl amino acid binding protein. Biosensors and Bioelectronics, 2007, 22, 1933-1938.	5.3	17
172	Wireless monitoring of blood glucose levels in flatfish with a needle biosensor. Fisheries Science, 2010, 76, 687-694.	0.7	17
173	Engineering Fructosyl Peptide Oxidase to Improve Activity Toward the Fructosyl Hexapeptide Standard for HbA1c Measurement. Molecular Biotechnology, 2013, 54, 939-943.	1.3	17
174	Applying a riboregulator as a new chromosomal gene regulation tool for higher glycogen production in Synechocystis sp. PCC 6803. Applied Microbiology and Biotechnology, 2017, 101, 8465-8474.	1.7	17
175	Maintenance of broad host range vector pKT230 in marine unicellular cyanobacteria. FEMS Microbiology Letters, 1992, 99, 73-78.	0.7	16
176	THE APPLICATION OF CYTOCHROMES AS THE INTERFACE MOLECULE TO FACILITATE THE ELECTRON TRANSFER FOR PQQ GLUCOSE DEHYDROGENASE EMPLOYING MEDIATOR TYPE GLUCOSE SENSOR. Analytical Letters, 2002, 35, 1465-1478.	1.0	16
177	Structural Basis of Efficient Electron Transport between Photosynthetic Membrane Proteins and Plastocyanin in Spinach Revealed Using Nuclear Magnetic Resonance. Plant Cell, 2012, 24, 4173-4186.	3.1	16
178	Effects of Eliminating Pyruvate Node Pathways and of Coexpression of Heterogeneous Carboxylation Enzymes on Succinate Production by Enterobacter aerogenes. Applied and Environmental Microbiology, 2015, 81, 929-937.	1.4	16
179	Construction and characterization of flavin adenine dinucleotide glucose dehydrogenase complex harboring a truncated electron transfer subunit. Electrochimica Acta, 2018, 277, 276-286.	2.6	16
180	Construction and Characterization of Glucose Enzyme Sensor Employing Engineered Water Soluble PQQ Glucose Dehydrogenase with Improved Thermal Stability. Electrochemistry, 2000, 68, 907-911.	0.6	16

#	Article	IF	Citations
181	Microbial sensor for preliminary screening of mutagens utilizing a phage induction test. Analytical Chemistry, 1989, 61, 2388-2391.	3.2	15
182	Cloning and Expression of Fructosyl-amine Oxidase from Marine Yeast Pichia Species N1-1. Marine Biotechnology, 2004, 6, 625-632.	1.1	15
183	Development of a novel biosensing system based on the structural change of a polymerized guanine-quadruplex DNA nanostructure. Biosensors and Bioelectronics, 2011, 26, 4837-4841.	5.3	15
184	Rapid Cytotoxicity Screening Platform for Amyloid Inhibitors Using a Membrane-Potential Sensitive Fluorescent Probe. Analytical Chemistry, 2013, 85, 185-192.	3.2	15
185	Engineered fungus derived FAD-dependent glucose dehydrogenase with acquired ability to utilize hexaammineruthenium(III) as an electron acceptor. Bioelectrochemistry, 2018, 123, 62-69.	2.4	15
186	Continuous production of Î±-peptide using immobilized recombinant yeast cells. Journal of Biotechnology, 1988, 8, 113-122.	1.9	14
187	Determination of microbial concentration with a piezoelectric gum sensor. Journal of Biotechnology, 1989, 12, 307-315.	1.9	14
188	Enzymatic synthesis of a novel trehalose derivative, 3,3â€²-diketotrehalose, and its potential application as the trehalase enzyme inhibitor. FEBS Letters, 2001, 489, 42-45.	1.3	14
189	A Novel Amperometric Sensor for Organophosphotriester Insecticides Detection Employing Catalytic Polymer Mimicking Phosphotriesterase Catalytic Center. Electrochemistry, 2001, 69, 969-972.	0.6	14
190	SocA is a novel periplasmic binding protein for fructosyl amino acid. Biochemical and Biophysical Research Communications, 2005, 336, 1074-1080.	1.0	14
191	Motifâ€based search for a novel fructosyl peptide oxidase from genome databases. Biotechnology and Bioengineering, 2010, 106, 358-366.	1.7	14
192	Mutational analysis of the oxygen-binding site of cholesterol oxidase and its impact on dye-mediated dehydrogenase activity. Journal of Molecular Catalysis B: Enzymatic, 2013, 88, 41-46.	1.8	14
193	Efficient surface-display of autotransporter proteins in cyanobacteria. Algal Research, 2015, 12, 337-340.	2.4	14
194	Mutagenesis Study of the Cytochrome c Subunit Responsible for the Direct Electron Transfer-Type Catalytic Activity of FAD-Dependent Glucose Dehydrogenase. International Journal of Molecular Sciences, 2018, 19, 931.	1.8	14
195	Creation of a novel DET type FAD glucose dehydrogenase harboring Escherichia coli derived cytochrome b562 as an electron transfer domain. Biochemical and Biophysical Research Communications, 2020, 530, 82-86.	1.0	14
196	Continuous hydrogen evolution by immobilized recombinantE. coli using a bioreactor. Biotechnology and Bioengineering, 1988, 32, 396-399.	1.7	13
197	Influence of ammonium chloride on growth and fatty acid production by spirulina platensis. Applied Biochemistry and Biotechnology, 1992, 34-35, 273-281.	1.4	13
198	Foreign gene expression in marine cyanobacteria under pseudo-continuous culture. Journal of Biotechnology, 1994, 33, 243-248.	1.9	13

#	Article	IF	Citations
199	Site-Directed Mutagenesis Study on the Thermal Stability of a Chimeric PQQ Glucose Dehydrogenase and Its Structural Interpretation. Applied Biochemistry and Biotechnology, 1999, 77, 159-168.	1.4	13
200	Title is missing!. Biotechnology Letters, 2000, 22, 1343-1347.	1.1	13
201	DNA Aptamers that Bind to PQQGDH as an Electrochemical Labeling Tool. Electroanalysis, 2009, 21, 1303-1308.	1.5	13
202	Zn finger-based direct detection system for PCR products of Salmonella spp. and the Influenza A virus. Biotechnology Letters, 2009, 31, 725-733.	1.1	13
203	Development of a light-regulated cell-recovery system for non-photosynthetic bacteria. Microbial Cell Factories, 2016, 15, 31.	1.9	13
204	X-ray structures of fructosyl peptide oxidases revealing residues responsible for gating oxygen access in the oxidative half reaction. Scientific Reports, 2017, 7, 2790.	1.6	13
205	Alteration of Electron Acceptor Preferences in the Oxidative Half-Reaction of Flavin-Dependent Oxidases and Dehydrogenases. International Journal of Molecular Sciences, 2020, 21, 3797.	1.8	13
206	Development of a POCT type insulin sensor employing anti-insulin single chain variable fragment based on faradaic electrochemical impedance spectroscopy under single frequency measurement. Biosensors and Bioelectronics, 2022, 200, 113901.	5.3	13
207	Development of a DNA aptamer that binds to the complementarity-determining region of therapeutic monoclonal antibody and affinity improvement induced by pH-change for sensitive detection. Biosensors and Bioelectronics, 2022, 203, 114027.	5.3	13
208	Amino acid substitution at the substrate-binding subsite alters the specificity of the Phanerochaete chrysosporium cellobiose dehydrogenase. Biochemical and Biophysical Research Communications, 2010, 391, 1246-1250.	1.0	12
209	Study of the role of anaerobic metabolism in succinate production by Enterobacter aerogenes. Applied Microbiology and Biotechnology, 2014, 98, 7803-7813.	1.7	12
210	Minimally Invasive Microneedle Array Electrodes Employing Direct Electron Transfer Type Glucose Dehydrogenase for the Development of Continuous Glucose Monitoring Sensors. Procedia Technology, 2017, 27, 208-209.	1.1	12
211	Rapid and homogeneous electrochemical detection by fabricating a high affinity bispecific antibody-enzyme complex using two Catcher/Tag systems. Biosensors and Bioelectronics, 2021, 175, 112885.	5.3	12
212	Development of glycated peptide enzyme sensor based flow injection analysis system for haemoglobin A1c monitoring using quasi-direct electron transfer type engineered fructosyl peptide oxidase. Biosensors and Bioelectronics, 2021, 177, 112984.	5.3	12
213	Construction and Characterization of a Chimeric Escherichia coli PQQ Glucose Dehydrogenase (PQQGDH) with Increased EDTA Tolerance. Electrochemistry, 1997, 65, 444-451.	0.3	12
214	Title is missing!. Biotechnology Letters, 2000, 22, 1505-1510.	1.1	11
215	Engineered PQQ Glucose Dehydrogenaseâ€Based Enzyme Sensor for Continuous Glucose Monitoring. Analytical Letters, 2004, 37, 1847-1857.	1.0	11
216	Volatile Fatty Acid-Sensing System Involving Coenzyme-A Transferase. Biotechnology Progress, 2006, 22, 334-337.	1.3	11

#	Article	IF	Citations
217	Selection and characterization of DNA aptamers against VEGF165 with aptamer blotting method and its application. Nucleic Acids Symposium Series, 2007, 51, 399-400.	0.3	11
218	Improving the induction fold of riboregulators for cyanobacteria. RNA Biology, 2018, 15, 353-358.	1.5	11
219	Comprehensive study of domain rearrangements of single-chain bispecific antibodies to determine the best combination of configurations and microbial host cells. MAbs, 2018, 10, 854-863.	2.6	11
220	Application of a Glucose Dehydrogenase-Fused with Zinc Finger Protein to Label DNA Aptamers for the Electrochemical Detection of VEGF. Sensors, 2020, 20, 3878.	2.1	11
221	Continuous production of somatomedin C with immobilized transformed yeast cells. Applied Microbiology and Biotechnology, 1988, 28, 215.	1.7	10
222	Extracellular lipopolysaccharide production by Erwinia carotovora. Journal of Bioscience and Bioengineering, 1989, 68, 320-324.	0.9	10
223	Sensor for free fatty acids based on acyl coenzyme-a synthetase and acyl coenzyme-a oxidase. Analytica Chimica Acta, 1989, 220, 251-255.	2.6	10
224	Identification of proteins encoded inEscherichia coli hydA, hydBand analysis of thehydAlocus. FEMS Microbiology Letters, 1990, 66, 187-192.	0.7	10
225	Title is missing!. Biotechnology Letters, 1999, 21, 707-710.	1.1	10
226	Construction and Characterization of Fermentative Lactate Dehydrogenase Escherichia coli Mutant and Its Potential for Bacterial Hydrogen Production. Applied Biochemistry and Biotechnology, 1999, 77, 317-324.	1.4	10
227	Effect of Growth Substrates on Production of New Soluble Glucose 3-Dehydrogenase in Halomonas (Deleya) sp. Î±-15. Applied Biochemistry and Biotechnology, 1999, 79, 827-834.	1.4	10
228	Cloning and Expression of Glucose 3-Dehydrogenase from Halomonas sp. Î±-15 in Escherichia coli. Biochemical and Biophysical Research Communications, 2001, 282, 21-27.	1.0	10
229	Nanostructure Fabrication Based on Engineered Î±-Synuclein. Nanobiotechnology, 2008, 4, 50-55.	1.2	10
230	Construction of a novel glucoseâ€sensing molecule based on a substrateâ€binding protein for intracellular sensing. Biotechnology and Bioengineering, 2011, 108, 725-733.	1.7	10
231	Electrochemical detection of pathogenic bacteria by using a glucose dehydrogenase fused zinc finger protein. Analytical Methods, 2014, 6, 4991-4994.	1.3	10
232	Advancing the Development of Glycated Protein Biosensing Technology. Journal of Diabetes Science and Technology, 2015, 9, 183-191.	1.3	10
233	Esterification of PQQ Enhances Blood-Brain Barrier Permeability and Inhibitory Activity against Amyloidogenic Protein Fibril Formation. ACS Chemical Neuroscience, 2018, 9, 2898-2903.	1.7	10
234	A Green Light-Regulated T7 RNA Polymerase Gene Expression System for Cyanobacteria. Marine Biotechnology, 2021, 23, 31-38.	1.1	10

#	Article	IF	Citations
235	Rapid, convenient, and highly sensitive detection of human hemoglobin in serum using a high-affinity bivalent antibodyâ€“enzyme complex. Talanta, 2021, 234, 122638.	2.9	10
236	Enzyme Fuel Cell for Cellulolytic Sugar Conversion Employing FAD Glucose Dehydrogenase and Carbon Cloth Electrode Based on Direct Electron Transfer Principle~!2010-01-09~!2010-02-04~!2010-05-17~!. The Open Electrochemistry Journal, 2010, 2, 6-10.	0.5	10
237	Current and future prospective of biosensing molecules for point-of-care sensors for diabetes biomarker. Sensors and Actuators B: Chemical, 2022, 351, 130914.	4.0	10
238	Light-induced production of isobutanol and 3-methyl-1-butanol by metabolically engineered cyanobacteria. Microbial Cell Factories, 2022, 21, 7.	1.9	10
239	Development of an electrochemical impedance spectroscopy based biosensor for detection of ubiquitin C-Terminal hydrolase L1. Biosensors and Bioelectronics, 2022, 208, 114232.	5.3	10
240	Sequential two-step conversion of 4-oxoisophorone to 4-hydroxy-2,2,6-trimethylcyclohexanone by thermophilic bacteria. Applied Microbiology and Biotechnology, 1990, 33, 245-250.	1.7	9
241	Cloning of a marine cyanobacterial promoter for foreign gene expression using a promoter probe vector. Applied Biochemistry and Biotechnology, 1996, 59, 349-360.	1.4	9
242	Increasing the hydrophobic interaction between terminal W-motifs enhances the stability of Salmonella typhimurium sialidase. A general strategy for the stabilization of Î²-propeller protein fold. Protein Engineering, Design and Selection, 2001, 14, 891-896.	1.0	9
243	Secretion of water soluble pyrroloquinoline quinone glucose dehydrogenase by recombinant Pichia pastoris. Enzyme and Microbial Technology, 2002, 30, 312-318.	1.6	9
244	Operational Condition of a Molecular Imprinting Catalyst-based Fructosyl-valine Sensor. Electrochemistry, 2008, 76, 590-593.	0.6	9
245	Aptameric sensors based on structural change for diagnosis. Faraday Discussions, 2011, 149, 93-106.	1.6	9
246	Biomolecular Engineering of Biosensing Molecules —The Challenges in Creating Sensing Molecules for Glycated Protein Biosensing—. Electrochemistry, 2012, 80, 293-298.	0.6	9
247	Impact of an energy-conserving strategy on succinate production under weak acidic and anaerobic conditions in Enterobacter aerogenes. Microbial Cell Factories, 2015, 14, 80.	1.9	9
248	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. Algal Research, 2019, 44, 101691.	2.4	9
249	Basic studies of hydrogen evolution by escherichia coli containing a cloned citrobacter freundii hydrogenase gene. Applied Biochemistry and Biotechnology, 1987, 15, 97-106.	1.4	8
250	Microbial conversion of dihydrooxoisophorone (DOIP) to 4-hydroxy-2,2,6-trimethylcyclohexanone (4-HTMCH) by thermophilic bacteria. Journal of Biotechnology, 1989, 9, 117-128.	1.9	8
251	Single Amino Acid Preferences for Specific Locations at Type-Î‘-Turns in Globular Proteins. Bulletin of the Chemical Society of Japan, 1999, 72, 1807-1813.	2.0	8
252	Improvement of Enantioselectivity of Chiral Organophosphate Insecticide Hydrolysis by Bacterial Phosphotriesterase. Applied Biochemistry and Biotechnology, 2000, 84-86, 311-318.	1.4	8

#	Article	IF	Citations
253	Clinical application of the serum 1,5-anhydroglucitol assay method using glucose 3-dehydrogenase. Journal of Clinical Laboratory Analysis, 2002, 16, 299-303.	0.9	8
254	Surface charge engineering of PQQ glucose dehydrogenase for downstream processing. Biotechnology Letters, 2003, 25, 1695-1701.	1.1	8
255	Improved substrate specificity of water-soluble pyrroloquinoline quinone glucose dehydrogenase by a peptide ligand. Biotechnology Letters, 2003, 25, 301-305.	1.1	8
256	Amperometric Glucose Sensor Using Thermostable Co-Factor Binding Glucose Dehydrogenase. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 185-189.	0.0	8
257	Branched-chain Amino Acid Biosensing Using Fluorescent Modified Engineered Leucine/Isoleucine/Valine Binding Protein. International Journal of Molecular Sciences, 2007, 8, 513-525.	1.8	8
258	Nitrous Oxide Sensing using Oxygen-Insensitive Direct-Electron-Transfer-Type Nitrous Oxide Reductase. Electrochemistry, 2012, 80, 371-374.	0.6	8
259	G-quadruplex-forming aptamer enhances the peroxidase activity of myoglobin against luminol. Nucleic Acids Research, 2021, 49, 6069-6081.	6.5	8
260	Biosensor for toxic compounds using immobilized animal cell membrane.. Membrane, 1989, 14, 311-318.	0.0	8
261	The development of microâ€“sized enzyme sensor based on direct electron transfer type open circuit potential sensing principle. Electrochimica Acta, 2022, 426, 140798.	2.6	8
262	Facile isolation ofEndo-pectate lyase fromErwinia carotovora based on electrostatic interaction. Applied Biochemistry and Biotechnology, 1990, 26, 239-248.	1.4	7
263	Construction and characterization of heterodimeric soluble quinoprotein glucose dehydrogenase. Journal of Proteomics, 2004, 61, 331-338.	2.4	7
264	The molecular reaction vessels for a transesterification process created by molecular imprinting technique. Journal of Molecular Recognition, 2005, 18, 262-266.	1.1	7
265	Substrate specificity engineering of Escherichia coli derived fructosamine 6-kinase. Biotechnology Letters, 2013, 35, 253-258.	1.1	7
266	Blood Glucose Dependence on Emotional Behaviors and Body Surface Temperatures in Common Marmoset's Socio-Psychological Learning with Peers - for 'Development of Human-Environment Interface by Sensing and Multivariate Analysis of Bio-Ecosystem' -. ECS Transactions, 2013, 50, 9-14.	0.3	7
267	Artificial complementary chromatic acclimation gene expression system in Escherichia coli. Microbial Cell Factories, 2021, 20, 128.	1.9	7
268	Continuous electrochemical monitoring of L-glutamine using redox-probe-modified L-glutamine-binding protein based on intermittent pulse amperometry. Sensors and Actuators B: Chemical, 2021, 346, 130554.	4.0	7
269	Escherichia coliMetabolic engineering approaches for the improvement of bacterial hydrogen production based on mixed acid fermentation. , 2001, , 195-204.		7
270	Transient potentiometry based d-serine sensor using engineered d-amino acid oxidase showing quasi-direct electron transfer property. Biosensors and Bioelectronics, 2022, 200, 113927.	5.3	7

#	Article	IF	Citations
271	An Amine-Reactive Phenazine Ethosulfate (arPES)â€"A Novel Redox Probe for Electrochemical Aptamer-Based Sensor. Sensors, 2022, 22, 1760.	2.1	7
272	Pseudo-continuous culture of marine recombinant cyanobacteria under a light dark cycle. Biotechnology Letters, 1994, 16, 973-976.	1.1	6
273	Stabilization of pyrroloquinoline quinone glucose dehydrogenase by cross-linking chemical modification. Biotechnology Letters, 1996, 18, 997-1002.	1.1	6
274	A New Type ofÎ†,Ï^Representation of the Protein Tertiary Structure and the Analysis of the Amino Acid Preferences for Specific Locations at Type-IIÎ²-Turn by Using 8000 Possible Kinds of Amino Acid Residues. Bulletin of the Chemical Society of Japan, 1997, 70, 1639-1648.	2.0	6
275	Compatibility of phosphotriesterase from Flavobacteriumsp. with detergents. Biotechnology Letters, 1997, 19, 1239-1242.	1.1	6
276	Propionate Sensor Using Coenzyme-A Transferase and Acyl-CoA Oxidase. Protein and Peptide Letters, 2008, 15, 779-781.	0.4	6
277	Cloning and Characterization of Fructosamine-6-Kinase from Arthrobacter aurescens. Applied Biochemistry and Biotechnology, 2013, 170, 710-717.	1.4	6
278	Enzyme linking to DNA aptamers via a zinc finger as a bridge. Chemical Communications, 2015, 51, 11467-11469.	2.2	6
279	Elucidation of the intra- and inter-molecular electron transfer pathways of glucoside 3-dehydrogenase. Bioelectrochemistry, 2018, 122, 115-122.	2.4	6
280	The Inhibition of Amyloid Fibrillation Using the Proteolytic Products of PQQ-Modified Î±-Synuclein. Open Biotechnology Journal, 2009, 3, 40-45.	0.6	6
281	Integrated Microbiosensors for Medical Use. Annals of the New York Academy of Sciences, 1988, 542, 470-479.	1.8	5
282	Efficient gene transfer of high copy number mibilizable plasmids containing a marineRhodobacter origin of replication. Current Microbiology, 1993, 26, 105-108.	1.0	5
283	Screening of melanin biosynthesis inhibitors from marine microalgae using Streptomyces bikiniensis bioassay. Biotechnology Letters, 1995, 9, 633-636.	0.5	5
284	A novel transesterification catalyzed by phosphotriesterase in an organic solvent. Biotechnology Letters, 1996, 18, 923-926.	1.1	5
285	Aptameric enzyme subunit for homogeneous protein sensing. Nucleic Acids Symposium Series, 2007, 51, 99-100.	0.3	5
286	Zinc finger protein-based detection system of PCR products for pathogen diagnosis. Nucleic Acids Symposium Series, 2008, 52, 23-24.	0.3	5
287	Employment of 1-Methoxy-5-Ethyl Phenazinium Ethyl Sulfate as a Stable Electron Mediator in Flavin Oxidoreductases-Based Sensors. Sensors, 2020, 20, 2825.	2.1	5
288	A self-powered glucose sensor based on BioCapacitor principle with micro-sized enzyme anode employing direct electron transfer type FADGDH. JPhys Energy, 2021, 3, 034009.	2.3	5

#	Article	IF	Citations
289	Characterization of Electron Mediator Preference of Aerococcus viridans-Derived Lactate Oxidase for Use in Disposable Enzyme Sensor Strips. Sensors and Materials, 2017, , 1703.	0.3	5
290	Identification of proteins encoded in Escherichia coli hydA, hydB and analysis of the hydA locus. FEMS Microbiology Letters, 1990, 54, 187-92.	0.7	5
291	Effect of the glucosidase inhibitor 1-deoxynojirimycin on protein secretion from Saccharomyces cerevisiae. Enzyme and Microbial Technology, 1988, 10, 246-251.	1.6	4
292	Amperometric determination of free fatty acids by utilizing five sequential enzyme reactions. Electroanalysis, 1989, 1, 69-74.	1.5	4
293	Air-bubbling, hollow-fiber reactor with cell bleeding and cross-flow filtration. Biotechnology and Bioengineering, 1990, 35, 1155-1160.	1.7	4
294	Development of rapid detection system for allergic reaction using rat basophilic leukemia (RBL-1) cells. Sensors and Actuators B: Chemical, 1993, 13, 312-314.	4.0	4
295	Effect of PQQ glucose dehydrogenase overexpression in Escherichia coli on sugar-dependent respiration. Journal of Biotechnology, 1995, 43, 41-44.	1.9	4
296	Title is missing!. Biotechnology Letters, 1997, 11, 577-580.	0.5	4
297	Construction of artificial cyclic amide amidohydrolases using molecular imprinting technique. Biotechnology Letters, 2005, 27, 471-475.	1.1	4
298	Identification and functional analysis of fructosyl amino acid-binding protein from Gram-positive bacteriumArthrobactersp.. Journal of Applied Microbiology, 2013, 114, 1449-1456.	1.4	4
299	Electrochemical DNA Sensor Using Genetically Engineered Thermostable Pyrroloquinoline Quinone Glucose Dehydrogenase. Electrochemistry, 2003, 71, 490-495.	0.6	4
300	Molecular Breeding of Hydrogen-evolving Bacteria. Biotechnology and Genetic Engineering Reviews, 1988, 6, 379-402.	2.4	3
301	Preparation of Bacterial Magnetite Particles for DNA Carriers.. Kobunshi Ronbunshu, 1991, 48, 319-325.	0.2	3
302	Marine Biotechnology Based on Marine Microorganisms. Advances in Molecular and Cell Biology, 1996, 15, 95-102.	0.1	3
303	An optical resolution of racemic organophosphorous esters by phosphotriesterase-catalyzing hydrolysis. Applied Biochemistry and Biotechnology, 1997, 63-65, 659-665.	1.4	3
304	Enzyme Electrochemical Preparation of a 3-Keto Derivative of 1,5-Anhydro-D-Glucitol Using Glucose-3-Dehydrogenase. Applied Biochemistry and Biotechnology, 2000, 84-86, 947-954.	1.4	3
305	Aggregation and Fibrillation Study of .ALPHA.-synuclein Under Applied Voltage. Electrochemistry, 2008, 76, 614-618.	0.6	3
306	Subunit Analyses of a Novel Thermostable Glucose Dehydrogenase Showing Different Temperature Properties According to Its Quaternary Structure. , 1999, , 325-335.		3

#	Article	IF	Citations
307	Development of a Novel Conductometric Determination of Organophosphate Insecticides Using Phosphotriesterase. Electrochemistry, 1996, 64, 1234-1238.	0.3	3
308	In Vitro Continuous 3 Months Operation of Direct Electron Transfer Type Open Circuit Potential Based Glucose Sensor: Heralding the Next CGM Sensor. Journal of Diabetes Science and Technology, 2022, 16, 1107-1113.	1.3	3
309	Microbial conversion of 4-oxoisophorone by thermomonospora curvata using an air-bubbling hollow fiber reactor. Applied Biochemistry and Biotechnology, 1988, 19, 209-220.	1.4	2
310	Enzyme and Microbial Sensor. , 1988, , 115-130.		2
311	Application of Novel Sensors for Bioprocess On-Line Monitoring to Dextran Fermentation.. Kagaku Kogaku Ronbunshu, 1991, 17, 559-564.	0.1	2
312	Rapid determination of plasmid-carrying yeast cells by using an imaging sensor system. Biotechnology and Bioengineering, 1991, 38, 1331-1336.	1.7	2
313	Continuous two step bioconversion of 4-oxoiso-phorone (OIP) to 4-hydroxy-2,2,6-trimethylcyclo-hexanone (4-HTMCH) by thermophilic bacteria. Biotechnology Letters, 1995, 17, 785-790.	1.1	2
314	Statistical Characterization of Eleven Kinds of Helix Elements with Amino Acid Residues in the Middle of Triplets. Bulletin of the Chemical Society of Japan, 1998, 71, 385-395.	2.0	2
315	Title is missing!. Biotechnology Letters, 1999, 13, 81-85.	0.5	2
316	ASalmonellaDetection System Using an Engineered DNA Binding Protein That Specifically Captured a DNA Sequence. Analytical Chemistry, 2000, 72, 2809-2813.	3.2	2
317	MULTI-SUGAR ANALYSIS SYSTEM USING A NOVEL GLUCOSE-3-DEHYDROGENASE ELECTRODE. Instrumentation Science and Technology, 2002, 30, 97-105.	0.9	2
318	Selection of DNA aptamers that inhibit enzymatic activity of PQQGDH and its application. Nucleic Acids Symposium Series, 2007, 51, 403-404.	0.3	2
319	W-motif Exchange Between Î²-Propeller Proteins. Protein Journal, 2007, 26, 153-158.	0.7	2
320	Constructing an improved pyrroloquinoline quinone glucose dehydrogenase binding aptamer for enzyme labeling. Biotechnology Letters, 2010, 32, 1293-1298.	1.1	2
321	Electrochemical SNP Detection Using Glucose Dehydrogenase. Electrochemistry, 2012, 80, 345-347.	0.6	2
322	Screening of Peptide Ligands for Pyrroloquinoline Quinone Glucose Dehydrogenase Using Antagonistic Template-Based Biopanning. International Journal of Molecular Sciences, 2013, 14, 23244-23256.	1.8	2
323	A Disposable Tear Glucose Biosensorâ€"Part 5: Improvements in Reagents and Tear Sampling Component. Journal of Diabetes Science and Technology, 2018, 12, 842-846.	1.3	2
324	Synthesis of a hemin-containing copolymer as a novel immunostimulator that induces IFN-gamma production. International Journal of Nanomedicine, 2018, Volume 13, 4461-4472.	3.3	2

#	Article	IF	Citations
325	Isolation and Identification of N -carbamoyl-Î²- d -glucopyranosylamine from Human Serum. Journal of Biochemistry, Molecular Biology, and Biophysics: JBMBB: the Official Journal of the Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB), 2002, 6, 315-318.	0.4	2
326	In Vitro Evaluation of Miniaturized Amperometric Enzyme Sensor Based on the Direct Electron Transfer Principle for Continuous Glucose Monitoring. Journal of Diabetes Science and Technology, 2022, 16, 1101-1106.	1.3	2
327	Clinical Study of a High Accuracy Green Design Blood Glucose Monitor Using an Innovative Optical Transmission Absorbance System. Journal of Diabetes Science and Technology, 2021, , 193229682110608.	1.3	2
328	A Thiol-reactive Phenazine Ethosulfate â€“ A Novel Redox Mediator for Quasi-direct Electron-transfer-type Sensors. Sensors and Materials, 2022, 34, 2105.	0.3	2
329	Restoration ofEscherichia coli hyd BMutant Hydrogenase by Cultivation in Media Containing Various Metals. Biocatalysis, 1990, 4, 211-217.	0.9	1
330	Electrochemical disinfection of marine bacteria attached on a plastic electrode. Journal of Electroanalytical Chemistry, 1992, 342, 191-198.	1.9	1
331	Biochemical Properties and Colony Formation Patterns of Salmonella-Like Strains.. Biocontrol Science, 1997, 2, 93-97.	0.2	1
332	Development of a novel sensing probe using DNA aptamer inhibiting enzymatic activity. Nucleic Acids Symposium Series, 2005, 49, 83-84.	0.3	1
333	Novel Enzyme Sensor for Glycated Protein Biosensing without the Proteolytic Processes. ECS Meeting Abstracts, 2009, , .	0.0	1
334	Biosensors Using the Aptameric Enzyme Subunit: The Use of Aptamers in the Allosteric Control of Enzymes. , 0, , 129-138.		1
335	Tuning Fructosyl Peptidyl Oxidase into Dehydrogenase and Its Application for the Construction of an Enzyme Electrode. ECS Transactions, 2011, 35, 113-116.	0.3	1
336	Site-Directed Mutagenesis Study on the Thermal Stability of a Chimeric PQQ Glucose Dehydrogenase and Its Structural Interpretation. , 1999, , 159-168.		1
337	Microbiosensors and Immunosensors. , 1990, , 425-451.		1
338	Maintenance of broad host range vector pKT230 in marine unicellular cyanobacteria. , 0, .		1
339	Alteration of Substrate Specificity of Galactose Oxidase by Chemical Cross-linking. Electrochemistry, 1997, 65, 435-439.	0.3	1
340	PQQã,°ãƒ«ã,³ãƒ¼ã,¹è„±æ°´ç´é…µç´ã®åŸºè³ªè¦ªå’Œæ€§ã®æ”¹è‰¯. Electrochemistry, 2000, 68, 348-352.	0.6	1
341	Construction and characterization of low-temperature-operating biosensors. Sensors and Actuators B: Chemical, 1993, 14, 663-664.	4.0	0
342	Enzyme sensor for measurement of 1, 5-anhydro-D-glucitol utilizing a novel marine bacterial glucose dehydrogenase. , 1994, , 445-447.		0

#	Article	IF	Citations
343	Relationship Between SerumN-Carbamoyl-Î²-d-glucopyranosylamine Level and Renal Failure. Renal Failure, 2003, 25, 115-121.	0.8	0
344	Development of a novel DNA sensing system using DNA aptamer inhibited enzymatic activity 1. Nucleic Acids Symposium Series, 2004, 48, 231-232.	0.3	0
345	Development of a novel DNA sensing system using DNA aptamer that inhibits enzymatic activity 2. Nucleic Acids Symposium Series, 2004, 48, 309-310.	0.3	0
346	Screening of DNA aptamers against multiple proteins in tissue. Nucleic Acids Symposium Series, 2005, 49, 357-358.	0.3	0
347	Construction of target molecule sensing system using aptameric enzyme subunit based on PQQGDH activity. Nucleic Acids Symposium Series, 2007, 51, 401-402.	0.3	0
348	Specific detection of PCR product from Legionella pneumophila strainPhiladelphia1 using zinc finger protein Sp2. Nucleic Acids Symposium Series, 2007, 51, 285-286.	0.3	0
349	Direct Electron Transfer Type Disposable Sensor Strip for Glucose Sensing Employing FAD Glucose Dehydrogenase. ECS Meeting Abstracts, 2008, , .	0.0	0
350	Development of Nitrous Oxide Enzyme Sensor Based on Direct Electron Transfer. ECS Meeting Abstracts, 2009, , .	0.0	0
351	BioRadioTransmitter ~ A Self-empowered Wireless Glucose Sensing System~. ECS Meeting Abstracts, 2009, , .	0.0	0
352	Glucose Specific GDH-PQQ based Sensor Strip: Application of Engineered GDH-PQQ Harboring a de novo Designed Loop Region. ECS Transactions, 2011, 35, 117-119.	0.3	0
353	Klaus Mosbach tribute. Biotechnology and Bioengineering, 2015, 112, 645-647.	1.7	0
354	Data on G-quadruplex topology, and binding ability of G-quadruplex forming sequences found in the promoter region of biomarker proteins and those relations to the presence of nuclear localization signal in the proteins. Data in Brief, 2021, 36, 107028.	0.5	0
355	Editorial preface of the special issue on â€œthe progress and perspectives of biosensing research in North Americaâ€• Biosensors and Bioelectronics, 2021, 194, 113578.	5.3	0
356	Enzyme Electrochemical Preparation of a 3-Keto Derivative of 1, 5-Anhydro-D-Glucitol Using Glucose-3-Dehydrogenase. , 2000, , 947-954.		0
357	Improvement of Enantioselectivity of Chiral Organophosphate Insecticide Hydrolysis by Bacterial Phosphotriesterase. , 2000, , 311-317.		0
358	Surface Deposition Method; A Novel Protein Immobilization Procedure on a Sensor Surface. Electrochemistry, 2000, 68, 882-885.	0.6	0
359	Protein Engineering of PQQ Glucose Dehydrogenase. , 2003, , .		0
360	é…µç´é›»æ¥µåå¿œã,'ç"¨ã•ã¥DNAãƒ•ã,ãƒ–ãƒªãƒ€ã,ã,¼ãƒ¼ã,·ãƒ§ãƒ³ã®é«˜æ„Ÿåº¦æœå‡º. Electrochemistry, 2004, 72, 594-597.	0.6	0

#	Article	IF	Citations
361	A Marine Bacterial Electrode for Sensitive Detection of 1, 5-anhydro-D-glucitol. Electrochemistry, 1995, 63, 1131-1133.	0.3	0
362	Effect of Growth Substrates on Production of New Soluble Glucose 3-Dehydrogenase in Halomonas (Deleya) sp. Î±-15. , 1999, , 827-834.		0
363	Detection of Chloride Using Microelectrodes in Closed Bipolar Electrode Scheme. ECS Meeting Abstracts, 2021, MA2021-02, 1609-1609.	0.0	0
364	(Keynote) Continuous Glucose Monitoring Systems - Current Status and Future Perspectives of the Flagship Technologies in Biosensor Research -. ECS Meeting Abstracts, 2020, MA2020-02, 2777-2777.	0.0	0
365	The Continuous 3 Month Operation of Open Circuit Potential Based Glucose Sensor Employing Direct Electron Transfer Type Fad Dependent Glucose Dehydrogenase. ECS Meeting Abstracts, 2020, MA2020-02, 2779-2779.	0.0	0
366	The Abtamer: A Novel Antibody-Aptamer Conjugate for Electrochemical Biosensing Applications. ECS Meeting Abstracts, 2020, MA2020-02, 2835-2835.	0.0	0
367	Construction of Super-Stabilized Direct Electron Transfer Type Glucose Dehydrogenase for Long Term Continuous Glucose Sensing System. ECS Meeting Abstracts, 2020, MA2020-02, 2831-2831.	0.0	0
368	Development of an Electrochemical Biosensor of Ubiquitin C-Terminal Hydrolase L1 (UCH-L1) for the Assessment of Traumatic Brain Injury (TBI). ECS Meeting Abstracts, 2020, MA2020-02, 2784-2784.	0.0	0
369	Development of Insulin Sensors Based on Faradaic and Non-Faradaic Electrochemical Impedance Spectroscopy Detection Principle Using Single Chain Antibody (scFv). ECS Meeting Abstracts, 2020, MA2020-02, 2783-2783.	0.0	0
370	Electrochemical Aptasensor Employing Enzyme-Aptamer One-to-One Complex Showing Quasi-Direct Electron Transfer Ability. ECS Meeting Abstracts, 2020, MA2020-02, 2834-2834.	0.0	0