Koji Sode

List of Publications by Year in descending order

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373 papers	9,525 citations	41344 49 h-index	74163 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.	5.4	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.	2.2	345
3	Novel electrochemical sensor system for protein using the aptamers in sandwich manner. Biosensors and Bioelectronics, 2005, 20, 2168-2172.	10.1	259
4	Selection of DNA Aptamers That Recognize Î±-Synuclein Oligomers Using a Competitive Screening Method. Analytical Chemistry, 2012, 84, 5542-5547.	6.5	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.	10.1	147
6	Improvement of Aptamer Affinity by Dimerization. Sensors, 2008, 8, 1090-1098.	3.8	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.	3.4	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.	10.1	116
9	Screening and Improvement of an Anti-VEGF DNA Aptamer. Molecules, 2010, 15, 215-225.	3.8	116
10	Electrochemical Detection of Protein Using a Double Aptamer Sandwich. Analytical Letters, 2004, 37, 2901-2909.	1.8	115
11	Continuous glucose monitoring systems - Current status and future perspectives of the flagship technologies in biosensor research -. Biosensors and Bioelectronics, 2021, 181, 113054.	10.1	114
12	Development of a novel glucose enzyme fuel cell system employing protein engineered PQQ glucose dehydrogenase. Biosensors and Bioelectronics, 2005, 20, 2145-2150.	10.1	109
13	A novel wireless glucose sensor employing direct electron transfer principle based enzyme fuel cell. Biosensors and Bioelectronics, 2007, 22, 2250-2255.	10.1	103
14	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. Applied and Environmental Microbiology, 1992, 58, 686-689.	3.1	98
15	Biosensor for detection of organophosphate and carbamate insecticides. Electroanalysis, 1992, 4, 249-252.	2.9	97
16	Production of hydrogen and methane from organic solid wastes by phase-separation of anaerobic process. Bioresource Technology, 2007, 98, 1861-1865.	9.6	96
17	Glutamate production from CO2 by Marine CyanobacteriumSynechococcus sp.. Applied Biochemistry and Biotechnology, 1991, 28-29, 157-167.	2.9	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.	2.2	93

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19	Structural analysis of fungus-derived FAD glucose dehydrogenase. Scientific Reports, 2015, 5, 13498.	3.3	89
20	BioCapacitor: A novel principle for biosensors. Biosensors and Bioelectronics, 2016, 76, 20-28.	10.1	80
21	Selection of DNA aptamers against VEGF165 using a protein competitor and the aptamer blotting method. Biotechnology Letters, 2008, 30, 829-834.	2.2	74
22	Aptameric Enzyme Subunit for Biosensing Based on Enzymatic Activity Measurement. Analytical Chemistry, 2006, 78, 3296-3303.	6.5	72
23	BioCapacitorâ€"A novel category of biosensor. Biosensors and Bioelectronics, 2009, 24, 1837-1842.	10.1	71
24	Integrated biosensor for glucose and galactose. Analytica Chimica Acta, 1989, 218, 137-142.	5.4	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.	5.4	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.	2.2	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.	2.9	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.	10.1	68
29	Methanogenesis from acetate and propionate by thermophilic down-flow anaerobic packed-bed reactor. Bioresource Technology, 2008, 99, 4786-4795.	9.6	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.	4.2	66
31	Extended-Range Glucose Sensor Employing Engineered Glucose Dehydrogenases. Analytical Chemistry, 2000, 72, 4689-4693.	6.5	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.	14.5	64
33	Pyrroloquinoline quinone (PQQ) prevents fibril formation of Î±-synuclein. Biochemical and Biophysical Research Communications, 2006, 349, 1139-1144.	2.1	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.	3.2	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.	4.6	61

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37	Wireless enzyme sensor system for real-time monitoring of blood glucose levels in fish. Biosensors and Bioelectronics, 2009, 24, 1417-1423.	10.1	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.	3.6	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.	10.1	56
41	A novel thermostable glucose dehydrogenase varying temperature properties by altering its quaternary structures. Enzyme and Microbial Technology, 1996, 19, 82-85.	3.2	55
42	Development of acetylcholine sensor using carbon fiber (amperometric determination). Biosensors and Bioelectronics, 1991, 6, 675-680.	10.1	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.	2.1	54
44	Cloning and functional expression of glucose dehydrogenase complex of Burkholderia cepacia in Escherichia coli. Journal of Biotechnology, 2006, 123, 127-136.	3.8	53
45	BioRadioTransmitter: A Self-Powered Wireless Glucose-Sensing System. Journal of Diabetes Science and Technology, 2011, 5, 1030-1035.	2.2	52
46	PQQ glucose dehydrogenase with novel electron transfer ability. Biochemical and Biophysical Research Communications, 2004, 314, 793-797.	2.1	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.	2.2	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.	3.7	50
50	Amperometric determination of choline and acetylcholine with enzymes immobilized in a photocross-linkable polymer. Analytica Chimica Acta, 1990, 228, 49-53.	5.4	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.	7.1	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.	4.6	47
53	Enhancement of the catalytic activity of an artificial phosphotriesterase using a molecular imprinting technique. Biotechnology Letters, 2003, 25, 1075-1080.	2.2	46
54	Novel fungal FAD glucose dehydrogenase derived from Aspergillus niger for glucose enzyme sensor strips. Biosensors and Bioelectronics, 2017, 87, 305-311.	10.1	46

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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.	4.1	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.	3.2	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.	10.1	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.	6.4	42
59	Screening of DNA aptamer which binds to Î±-synuclein. Biotechnology Letters, 2010, 32, 643-648.	2.2	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.	2.3	41
61	Molecular engineering of PQQGDH and its applications. Archives of Biochemistry and Biophysics, 2004, 428, 52-63.	3.0	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.	5.2	41
64	Improving the Gene-Regulation Ability of Small RNAs by Scaffold Engineering in Escherichia coli. ACS Synthetic Biology, 2014, 3, 152-162.	3.8	41
65	Rational design of direct electron transfer type l-lactate dehydrogenase for the development of multiplexed biosensor. Biosensors and Bioelectronics, 2021, 176, 112933.	10.1	40
66	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. Biochemical and Biophysical Research Communications, 2006, 348, 245-252.	2.1	39
67	Screening of DNA Aptamer Against Mouse Prion Protein by Competitive Selection. Prion, 2007, 1, 248-254.	1.8	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.	4.6	39
69	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. Biosensors and Bioelectronics, 2019, 123, 114-123.	10.1	39
70	Amperometric DNA sensor using the pyrroquinoline quinone glucose dehydrogenaseâ€“avidin conjugate. Biosensors and Bioelectronics, 2002, 17, 1075-1080.	10.1	38
71	Peptide ligand screening of Î±-synuclein aggregation modulators by in silico panning. BMC Bioinformatics, 2007, 8, 451.	2.6	38
72	Design of riboregulators for control of cyanobacterial (Synechocystis) protein expression. Biotechnology Letters, 2014, 36, 287-294.	2.2	38

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73	Development of an Enzyme Sensor Utilizing a Novel Fructosyl Amine Oxidase from a Marine Yeast. Electrochemistry, 2000, 68, 869-871.	1.4	37
74	Biofuel cell system employing thermostable glucose dehydrogenase. Biotechnology Letters, 2008, 30, 1753-1758.	2.2	37
75	Microbial BOD Sensor Utilizing Thermophilic Bacteria. Analytical Letters, 1989, 22, 791-801.	1.8	36
76	Molecular Imprinting Catalyst Based Artificial Enzyme Sensor for Fructosylamines. Analytical Letters, 2003, 36, 75-89.	1.8	36
77	Engineering of ligand specificity of periplasmic binding protein for glucose sensing. Biotechnology Letters, 2008, 30, 1453-1460.	2.2	36
78	The inhibitory effect of pyrroloquinoline quinone on the amyloid formation and cytotoxicity of truncated alpha-synuclein. Molecular Neurodegeneration, 2010, 5, 20.	10.8	36
79	Third generation impedimetric sensor employing direct electron transfer type glucose dehydrogenase. Biosensors and Bioelectronics, 2019, 129, 189-197.	10.1	36
80	Thermostable chimeric PQQ glucose dehydrogenase. FEBS Letters, 1995, 364, 325-327.	2.8	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.	2.1	35
82	Screening and Characterization of Fructosyl-Valine-Utilizing Marine Microorganisms. Marine Biotechnology, 2001, 3, 126-132.	2.4	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.	5.4	35
84	A molecularly imprinted catalyst designed by a computational approach in catalysing a transesterification process. Biosensors and Bioelectronics, 2004, 20, 1068-1075.	10.1	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.	3.4	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.	10.1	35
87	Construction of Mutant Glucose Oxidases with Increased Dye-Mediated Dehydrogenase Activity. International Journal of Molecular Sciences, 2012, 13, 14149-14157.	4.1	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, .	7.1	34
89	Screening of Aspergillus-derived FAD-glucose dehydrogenases from fungal genome database. Biotechnology Letters, 2011, 33, 2255-2263.	2.2	33
90	On-line monitoring of the viscosity in dextran fermentation using piezoelectric quartz crystal. Biotechnology and Bioengineering, 1990, 36, 636-641.	3.3	32

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91	Stabilization of Quaternary Structure of Water-Soluble Quinoprotein Glucose Dehydrogenase. Molecular Biotechnology, 2003, 24, 97-104.	2.4	31
92	Construction of engineered fructosyl peptidyl oxidase for enzyme sensor applications under normal atmospheric conditions. Biotechnology Letters, 2012, 34, 491-497.	2.2	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.	4.6	31
94	A novel microbial sensor using luminous bacteria. Biosensors and Bioelectronics, 1992, 7, 273-277.	10.1	30
95	Subzero temperature operating biosensor utilizing an organic solvent and quinoprotein glucose dehydrogenase. Biotechnology and Bioengineering, 1993, 42, 251-254.	3.3	30
96	Title is missing!. Biotechnology Letters, 1997, 19, 1073-1077.	2.2	30
97	In silico panning for a non-competitive peptide inhibitor. BMC Bioinformatics, 2007, 8, 11.	2.6	30
98	Development of fructosyl amine oxidase specific to fructosyl valine by site-directed mutagenesis. Protein Engineering, Design and Selection, 2008, 21, 233-239.	2.1	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.	10.1	30
100	On-line monitoring of marine cyanobacterial cultivation based on phycocyanÃ¯n fluorescence. Journal of Biotechnology, 1991, 21, 209-217.	3.8	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.	2.1	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.	2.9	29
103	Essential role of the small subunit of thermostable glucose dehydrogenase from Burkholderia cepacia. Biotechnology Letters, 2004, 26, 1757-1761.	2.2	29
104	Site directed mutagenesis studies of FAD-dependent glucose dehydrogenase catalytic subunit of Burkholderia cepacia. Biotechnology Letters, 2008, 30, 1967-1972.	2.2	29
105	Pyrroloquinoline quinone inhibits the fibrillation of amyloid proteins. Prion, 2010, 4, 26-31.	1.8	29
106	Stabilization of fungi-derived recombinant FAD-dependent glucose dehydrogenase by introducing a disulfide bond. Biotechnology Letters, 2015, 37, 1091-1099.	2.2	29
107	Mediator Preference of Two Different FAD-Dependent Glucose Dehydrogenases Employed in Disposable Enzyme Glucose Sensors. Sensors, 2017, 17, 2636.	3.8	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.	10.1	29

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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.	10.1	29
110	Glucose enzyme electrode using cytochrome b562 as an electron mediator. Biosensors and Bioelectronics, 2003, 18, 699-704.	10.1	28
111	Active site analysis of fructosyl amine oxidase using homology modeling and site-directed mutagenesis. Biotechnology Letters, 2006, 28, 1895-1900.	2.2	28
112	Construction of a Miniaturized Chromatic Acclimation Sensor from Cyanobacteria with Reversed Response to a Light Signal. Scientific Reports, 2016, 6, 37595.	3.3	28
113	Glu742 substitution to Lys enhances the EDTA tolerance ofEscherichia coli PQQ glucose dehydrogenase. Biotechnology Letters, 1994, 16, 455-460.	2.2	27
114	Biodegradation of Formaldehyde by a Formaldehyde-Resistant Bacterium Isolated from Seawater. Applied Biochemistry and Biotechnology, 2001, 91-93, 213-218.	2.9	27
115	Isolation and characterization of a fructosyl-amine oxidase from an Arthrobacter sp.. Biotechnology Letters, 2005, 27, 27-32.	2.2	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.	2.2	27
117	Microbial conversion of Î²-ionone by immobilizedAspergillus niger in the presence of an organic solvent. Biotechnology and Bioengineering, 1989, 33, 1191-1195.	3.3	26
118	Screening of marine cyanobacteria for high palmitoleic acid production. FEMS Microbiology Letters, 1995, 133, 137-141.	1.8	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.	2.9	26
120	Construction of Engineered Water-soluble PQQ Glucose Dehydrogenase with Improved Substrate Specificity. Biocatalysis and Biotransformation, 2002, 20, 405-412.	2.0	26
121	Functional expression of Phanerochaete chrysosporium cellobiose dehydrogenase flavin domain in Escherichia coli. Biotechnology Letters, 2010, 32, 855-859.	2.2	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.	2.2	26
123	Production of ÃŽÂ³-linolenic acid from the marine green algaChlorellasp. NKG 042401. FEMS Microbiology Letters, 1993, 107, 163-167.	1.8	25
124	Increased thermal stability of glucose dehydrogenase by cross-linking chemical modification. Biotechnology Letters, 1999, 21, 199-202.	2.2	25
125	The Development and Characterization of an Exogenous Green-Light-Regulated Gene Expression System in Marine Cyanobacteria. Marine Biotechnology, 2015, 17, 245-251.	2.4	25
126	A screening method for DNA aptamers that bind toâ£aâ£specific, unidentified protein in tissue samples. Biotechnology Letters, 2006, 28, 1377-1381.	2.2	24

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127	Construction and Characterization of Direct Electron Transfer-Type Continuous Glucose Monitoring System Employing Thermostable Glucose Dehydrogenase Complex. Analytical Letters, 2008, 41, 2363-2373.	1.8	24
128	An Aptamerâ€Based Bound/Free Separation System for Protein Detection. Electroanalysis, 2009, 21, 1297-1302.	2.9	24
129	Detection of Pathogenic Bacteria by Using Zinc Finger Protein Fused with Firefly Luciferase. Analytical Chemistry, 2012, 84, 8028-8032.	6.5	24
130	Scaffoldâ€fused riboregulators for enhanced gene activation in Synechocystis sp. <scp>PCC</scp> 6803. MicrobiologyOpen, 2015, 4, 533-540.	3.0	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.	4.8	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.	3.2	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.	3.8	23
134	The development of an autonomous self-powered bio-sensing actuator. Sensors and Actuators B: Chemical, 2014, 196, 429-433.	7.8	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.	3.8	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.	7.1	22
137	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. Biotechnology Letters, 2008, 30, 421-425.	2.2	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.	3.3	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.	6.5	22
140	Fructosyl Amine Sensing Based on Prussian Blue Modified Enzyme Electrode. Electrochemistry, 2001, 69, 973-975.	1.4	22
141	Application of microbiological sensors in fermentation processes. Analytica Chimica Acta, 1988, 213, 69-77.	5.4	21
142	Salinity-dependent copy number increase of a marine cyanobacterial endogenous plasmid. FEMS Microbiology Letters, 1991, 90, 95-98.	1.8	21
143	Characterization of iron uptake in the magnetic bacteriumAquaspirillum sp. AMB-1. Applied Biochemistry and Biotechnology, 1993, 39-40, 169-176.	2.9	21
144	Characterization and application of aptamers for Taq DNA polymerase selected using an evolution-mimicking algorithm. Biotechnology Letters, 2006, 28, 1939-1944.	2.2	21

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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.	1.8	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.	14.5	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.	10.1	21
148	Continuous operation of an ultra-low-power microcontroller using glucose as the sole energy source. Biosensors and Bioelectronics, 2017, 93, 335-339.	10.1	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.	10.1	20
151	Kinetic Mechanism and Inhibitor Characterization of WNK1 Kinase. Biochemistry, 2009, 48, 10255-10266.	2.5	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.	3.8	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.	7.8	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.	3.2	19
155	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. Chemical Communications, 2016, 52, 12646-12649.	4.1	19
156	G-Quadruplex Structure Improves the Immunostimulatory Effects of CpG Oligonucleotides. Nucleic Acid Therapeutics, 2019, 29, 224-229.	3.6	19
157	Development of Highly-sensitive Fructosyl-valine Enzyme Sensor Employing Recombinant Fructosyl Amine Oxidase. Electrochemistry, 2003, 71, 442-445.	1.4	19
158	Microbiosensors. Journal of Biotechnology, 1990, 15, 267-281.	3.8	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.	2.1	18
161	Aptameric enzyme subunit for homogeneous DNA sensing. Biotechnology Letters, 2008, 30, 243-252.	2.2	18
162	BioLC-Oscillator: A Self-Powered Wireless Glucose-Sensing System with the Glucose Dependent Resonance Frequency. Electrochemistry, 2012, 80, 367-370.	1.4	18

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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.	4.1	18
164	Electrochemical sensing system employing fructosamine 6â€kinase enables glycated albumin measurement requiring no proteolytic digestion. Biotechnology Journal, 2016, 11, 797-804.	3.5	18
165	Glycogen Production in Marine Cyanobacterial Strain Synechococcus sp. NKBG 15041c. Marine Biotechnology, 2018, 20, 109-117.	2.4	18
166	Development of an Interdigitated Electrode-Based Disposable Enzyme Sensor Strip for Glycated Albumin Measurement. Molecules, 2021, 26, 734.	3.8	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.	10.1	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.	2.3	18
169	A Disposable Electrochemical Glucose Sensor Using Catalytic Subunit of Novel Thermostable Glucose Dehydrogenase. Open Biotechnology Journal, 2007, 1, 26-30.	1.2	18
170	Analysis of the evolution of the thrombin-inhibiting DNA aptamers using a genetic algorithm. Biotechnology Letters, 2006, 28, 1933-1937.	2.2	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.	10.1	17
172	Wireless monitoring of blood glucose levels in flatfish with a needle biosensor. Fisheries Science, 2010, 76, 687-694.	1.6	17
173	Engineering Fructosyl Peptide Oxidase to Improve Activity Toward the Fructosyl Hexapeptide Standard for HbA1c Measurement. Molecular Biotechnology, 2013, 54, 939-943.	2.4	17
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