Koji Sode

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Current and future prospective of biosensing molecules for point-of-care sensors for diabetes biomarker. Sensors and Actuators B: Chemical, 2022, 351, 130914.	7.8	10
3	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.	2.2	2
4	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.	10.1	13
5	Transient potentiometry based d-serine sensor using engineered d-amino acid oxidase showing quasi-direct electron transfer property. Biosensors and Bioelectronics, 2022, 200, 113927.	10.1	7
6	Light-induced production of isobutanol and 3-methyl-1-butanol by metabolically engineered cyanobacteria. Microbial Cell Factories, 2022, 21, 7.	4.0	10
7	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.	10.1	13
8	An Amine-Reactive Phenazine Ethosulfate (arPES)â€"A Novel Redox Probe for Electrochemical Aptamer-Based Sensor. Sensors, 2022, 22, 1760.	3.8	7
9	Development of an electrochemical impedance spectroscopy based biosensor for detection of ubiquitin C-Terminal hydrolase L1. Biosensors and Bioelectronics, 2022, 208, 114232.	10.1	10
10	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.	2.2	3
11	A Thiol-reactive Phenazine Ethosulfate â€“ A Novel Redox Mediator for Quasi-direct Electron-transfer-type Sensors. Sensors and Materials, 2022, 34, 2105.	0.5	2
12	The development of microâ€“sized enzyme sensor based on direct electron transfer type open circuit potential sensing principle. Electrochimica Acta, 2022, 426, 140798.	5.2	8
13	A Green Light-Regulated T7 RNA Polymerase Gene Expression System for Cyanobacteria. Marine Biotechnology, 2021, 23, 31-38.	2.4	10
14	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.	10.1	12
15	Development of an Interdigitated Electrode-Based Disposable Enzyme Sensor Strip for Glycated Albumin Measurement. Molecules, 2021, 26, 734.	3.8	18
16	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
17	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
18	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.	5.3	5

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19	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.	10.1	12
20	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
21	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
22	G-quadruplex-forming aptamer enhances the peroxidase activity of myoglobin against luminol. Nucleic Acids Research, 2021, 49, 6069-6081.	14.5	8
23	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.	1.0	0
24	Artificial complementary chromatic acclimation gene expression system in Escherichia coli. Microbial Cell Factories, 2021, 20, 128.	4.0	7
25	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.	7.8	7
26	Rapid, convenient, and highly sensitive detection of human hemoglobin in serum using a high-affinity bivalent antibodyâ€“enzyme complex. Talanta, 2021, 234, 122638.	5.5	10
27	Editorial preface of the special issue on â€œthe progress and perspectives of biosensing research in North Americaâ€• Biosensors and Bioelectronics, 2021, 194, 113578.	10.1	0
28	Detection of Chloride Using Microelectrodes in Closed Bipolar Electrode Scheme. ECS Meeting Abstracts, 2021, MA2021-02, 1609-1609.	0.0	0
29	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.	2.2	2
30	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
31	FAD dependent glucose dehydrogenases â€“ Discovery and engineering of representative glucose sensing enzymes -. Bioelectrochemistry, 2020, 132, 107414.	4.6	61
32	Application of a Glucose Dehydrogenase-Fused with Zinc Finger Protein to Label DNA Aptamers for the Electrochemical Detection of VEGF. Sensors, 2020, 20, 3878.	3.8	11
33	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.	2.1	14
34	Employment of 1-Methoxy-5-Ethyl Phenazinium Ethyl Sulfate as a Stable Electron Mediator in Flavin Oxidoreductases-Based Sensors. Sensors, 2020, 20, 2825.	3.8	5
35	Alteration of Electron Acceptor Preferences in the Oxidative Half-Reaction of Flavin-Dependent Oxidases and Dehydrogenases. International Journal of Molecular Sciences, 2020, 21, 3797.	4.1	13
36	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

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37	(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
38	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
39	The Abtamer: A Novel Antibody-Aptamer Conjugate for Electrochemical Biosensing Applications. ECS Meeting Abstracts, 2020, MA2020-02, 2835-2835.	0.0	0
40	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
41	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
42	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
43	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
44	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. Biosensors and Bioelectronics, 2019, 123, 114-123.	10.1	39
45	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. Algal Research, 2019, 44, 101691.	4.6	9
46	G-Quadruplex Structure Improves the Immunostimulatory Effects of CpG Oligonucleotides. Nucleic Acid Therapeutics, 2019, 29, 224-229.	3.6	19
47	Third generation impedimetric sensor employing direct electron transfer type glucose dehydrogenase. Biosensors and Bioelectronics, 2019, 129, 189-197.	10.1	36
48	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
49	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
50	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
51	Elucidation of the intra- and inter-molecular electron transfer pathways of glucoside 3-dehydrogenase. Bioelectrochemistry, 2018, 122, 115-122.	4.6	6
52	A Disposable Tear Glucose Biosensorâ€”Part 5: Improvements in Reagents and Tear Sampling Component. Journal of Diabetes Science and Technology, 2018, 12, 842-846.	2.2	2
53	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
54	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

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55	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
56	Glycogen Production in Marine Cyanobacterial Strain Synechococcus sp. NKBG 15041c. Marine Biotechnology, 2018, 20, 109-117.	2.4	18
57	Improving the induction fold of riboregulators for cyanobacteria. RNA Biology, 2018, 15, 353-358.	3.1	11
58	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
59	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
60	Construction and characterization of flavin adenine dinucleotide glucose dehydrogenase complex harboring a truncated electron transfer subunit. Electrochimica Acta, 2018, 277, 276-286.	5.2	16
61	Esterification of PQQ Enhances Blood-Brain Barrier Permeability and Inhibitory Activity against Amyloidogenic Protein Fibril Formation. ACS Chemical Neuroscience, 2018, 9, 2898-2903.	3.5	10
62	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.	4.1	14
63	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.	5.2	11
64	Engineered fungus derived FAD-dependent glucose dehydrogenase with acquired ability to utilize hexaammineruthenium(III) as an electron acceptor. Bioelectrochemistry, 2018, 123, 62-69.	4.6	15
65	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
66	Synthesis of a hemin-containing copolymer as a novel immunostimulator that induces IFN-gamma production. International Journal of Nanomedicine, 2018, Volume 13, 4461-4472.	6.7	2
67	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.	3.6	17
68	X-ray structures of fructosyl peptide oxidases revealing residues responsible for gating oxygen access in the oxidative half reaction. Scientific Reports, 2017, 7, 2790.	3.3	13
69	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
70	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
71	Novel fungal FAD glucose dehydrogenase derived from Aspergillus niger for glucose enzyme sensor strips. Biosensors and Bioelectronics, 2017, 87, 305-311.	10.1	46
72	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

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73	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
74	Mediator Preference of Two Different FAD-Dependent Glucose Dehydrogenases Employed in Disposable Enzyme Glucose Sensors. Sensors, 2017, 17, 2636.	3.8	29
75	Characterization of Electron Mediator Preference of Aerococcus viridans-Derived Lactate Oxidase for Use in Disposable Enzyme Sensor Strips. Sensors and Materials, 2017, , 1703.	0.5	5
76	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. Chemical Communications, 2016, 52, 12646-12649.	4.1	19
77	Construction of a Miniaturized Chromatic Acclimation Sensor from Cyanobacteria with Reversed Response to a Light Signal. Scientific Reports, 2016, 6, 37595.	3.3	28
78	Electrochemical sensing system employing fructosamine 6â€kinase enables glycated albumin measurement requiring no proteolytic digestion. Biotechnology Journal, 2016, 11, 797-804.	3.5	18
79	Development of a light-regulated cell-recovery system for non-photosynthetic bacteria. Microbial Cell Factories, 2016, 15, 31.	4.0	13
80	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
81	BioCapacitor: A novel principle for biosensors. Biosensors and Bioelectronics, 2016, 76, 20-28.	10.1	80
82	Scaffoldâ€fused riboregulators for enhanced gene activation in Synechocystis sp. <scp>PCC</scp> 6803. MicrobiologyOpen, 2015, 4, 533-540.	3.0	24
83	Structural analysis of fungus-derived FAD glucose dehydrogenase. Scientific Reports, 2015, 5, 13498.	3.3	89
84	Efficient surface-display of autotransporter proteins in cyanobacteria. Algal Research, 2015, 12, 337-340.	4.6	14
85	Impact of an energy-conserving strategy on succinate production under weak acidic and anaerobic conditions in Enterobacter aerogenes. Microbial Cell Factories, 2015, 14, 80.	4.0	9
86	Stabilization of fungi-derived recombinant FAD-dependent glucose dehydrogenase by introducing a disulfide bond. Biotechnology Letters, 2015, 37, 1091-1099.	2.2	29
87	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
88	Advancing the Development of Glycated Protein Biosensing Technology. Journal of Diabetes Science and Technology, 2015, 9, 183-191.	2.2	10
89	Klaus Mosbach tribute. Biotechnology and Bioengineering, 2015, 112, 645-647.	3.3	0
90	Enzyme linking to DNA aptamers via a zinc finger as a bridge. Chemical Communications, 2015, 51, 11467-11469.	4.1	6

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91	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
92	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.	3.1	16
93	A Novel Wireless Network Infrastructure for Manufacturing Equipment Based on Wi-Fi Technology. Sensors and Materials, 2015, , 1.	0.5	0
94	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
95	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
96	Design of riboregulators for control of cyanobacterial (Synechocystis) protein expression. Biotechnology Letters, 2014, 36, 287-294.	2.2	38
97	The development of an autonomous self-powered bio-sensing actuator. Sensors and Actuators B: Chemical, 2014, 196, 429-433.	7.8	23
98	Engineering glucose oxidase to minimize the influence of oxygen on sensor response. Electrochimica Acta, 2014, 126, 158-161.	5.2	41
99	Study of the role of anaerobic metabolism in succinate production by Enterobacter aerogenes. Applied Microbiology and Biotechnology, 2014, 98, 7803-7813.	3.6	12
100	Electrochemical detection of pathogenic bacteria by using a glucose dehydrogenase fused zinc finger protein. Analytical Methods, 2014, 6, 4991-4994.	2.7	10
101	A green-light inducible lytic system for cyanobacterial cells. Biotechnology for Biofuels, 2014, 7, 56.	6.2	59
102	Improving the Gene-Regulation Ability of Small RNAs by Scaffold Engineering in Escherichia coli. ACS Synthetic Biology, 2014, 3, 152-162.	3.8	41
103	Cloning and Characterization of Fructosamine-6-Kinase from Arthrobacter aurescens. Applied Biochemistry and Biotechnology, 2013, 170, 710-717.	2.9	6
104	Engineering Fructosyl Peptide Oxidase to Improve Activity Toward the Fructosyl Hexapeptide Standard for HbA1c Measurement. Molecular Biotechnology, 2013, 54, 939-943.	2.4	17
105	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
106	Identification and functional analysis of fructosyl amino acid-binding protein from Gram-positive bacteriumArthrobactersp.. Journal of Applied Microbiology, 2013, 114, 1449-1456.	3.1	4
107	Rapid Cytotoxicity Screening Platform for Amyloid Inhibitors Using a Membrane-Potential Sensitive Fluorescent Probe. Analytical Chemistry, 2013, 85, 185-192.	6.5	15
108	Substrate specificity engineering of Escherichia coli derived fructosamine 6-kinase. Biotechnology Letters, 2013, 35, 253-258.	2.2	7

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109	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
110	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
111	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.	0.5	7
112	Screening of Peptide Ligands for Pyrroloquinoline Quinone Glucose Dehydrogenase Using Antagonistic Template-Based Biopanning. International Journal of Molecular Sciences, 2013, 14, 23244-23256.	4.1	2
113	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.	6.6	16
114	Nitrous Oxide Sensing using Oxygen-Insensitive Direct-Electron-Transfer-Type Nitrous Oxide Reductase. Electrochemistry, 2012, 80, 371-374.	1.4	8
115	Biomolecular Engineering of Biosensing Molecules —The Challenges in Creating Sensing Molecules for Glycated Protein Biosensing—. Electrochemistry, 2012, 80, 293-298.	1.4	9
116	Electrochemical SNP Detection Using Glucose Dehydrogenase. Electrochemistry, 2012, 80, 345-347.	1.4	2
117	BioLC-Oscillator: A Self-Powered Wireless Glucose-Sensing System with the Glucose Dependent Resonance Frequency. Electrochemistry, 2012, 80, 367-370.	1.4	18
118	Selection of DNA Aptamers That Recognize Î±-Synuclein Oligomers Using a Competitive Screening Method. Analytical Chemistry, 2012, 84, 5542-5547.	6.5	167
119	Detection of Pathogenic Bacteria by Using Zinc Finger Protein Fused with Firefly Luciferase. Analytical Chemistry, 2012, 84, 8028-8032.	6.5	24
120	Construction of Mutant Glucose Oxidases with Increased Dye-Mediated Dehydrogenase Activity. International Journal of Molecular Sciences, 2012, 13, 14149-14157.	4.1	34
121	Construction of engineered fructosyl peptidyl oxidase for enzyme sensor applications under normal atmospheric conditions. Biotechnology Letters, 2012, 34, 491-497.	2.2	31
122	Aptameric sensors based on structural change for diagnosis. Faraday Discussions, 2011, 149, 93-106.	3.2	9
123	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
124	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.	10.1	15
125	Screening of Aspergillus-derived FAD-glucose dehydrogenases from fungal genome database. Biotechnology Letters, 2011, 33, 2255-2263.	2.2	33
126	Construction of a novel glucoseâ€sensing molecule based on a substrateâ€binding protein for intracellular sensing. Biotechnology and Bioengineering, 2011, 108, 725-733.	3.3	10

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127	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.	0.5	0
128	Tuning Fructosyl Peptidyl Oxidase into Dehydrogenase and Its Application for the Construction of an Enzyme Electrode. ECS Transactions, 2011, 35, 113-116.	0.5	1
129	BioRadioTransmitter: A Self-Powered Wireless Glucose-Sensing System. Journal of Diabetes Science and Technology, 2011, 5, 1030-1035.	2.2	52
130	Wireless monitoring of blood glucose levels in flatfish with a needle biosensor. Fisheries Science, 2010, 76, 687-694.	1.6	17
131	Screening of DNA aptamer which binds to Î±-synuclein. Biotechnology Letters, 2010, 32, 643-648.	2.2	42
132	Functional expression of Phanerochaete chrysosporium cellobiose dehydrogenase flavin domain in Escherichia coli. Biotechnology Letters, 2010, 32, 855-859.	2.2	26
133	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
134	Constructing an improved pyrroloquinoline quinone glucose dehydrogenase binding aptamer for enzyme labeling. Biotechnology Letters, 2010, 32, 1293-1298.	2.2	2
135	Motifâ€based search for a novel fructosyl peptide oxidase from genome databases. Biotechnology and Bioengineering, 2010, 106, 358-366.	3.3	14
136	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
137	The inhibitory effect of pyrroloquinoline quinone on the amyloid formation and cytotoxicity of truncated alpha-synuclein. Molecular Neurodegeneration, 2010, 5, 20.	10.8	36
138	Screening and Improvement of an Anti-VEGF DNA Aptamer. Molecules, 2010, 15, 215-225.	3.8	116
139	Pyrroloquinoline quinone inhibits the fibrillation of amyloid proteins. Prion, 2010, 4, 26-31.	1.8	29
140	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.	2.1	12
141	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
142	Development of Nitrous Oxide Enzyme Sensor Based on Direct Electron Transfer. ECS Meeting Abstracts, 2009, , .	0.0	0
143	BioRadioTransmitter ~ A Self-empowered Wireless Glucose Sensing System~. ECS Meeting Abstracts, 2009, , .	0.0	0
144	Novel Enzyme Sensor for Glycated Protein Biosensing without the Proteolytic Processes. ECS Meeting Abstracts, 2009, , .	0.0	1

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145	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
146	An Aptamerâ€Based Bound/Free Separation System for Protein Detection. Electroanalysis, 2009, 21, 1297-1302.	2.9	24
147	DNA Aptamers that Bind to PQQGDH as an Electrochemical Labeling Tool. Electroanalysis, 2009, 21, 1303-1308.	2.9	13
148	BioCapacitorâ€"A novel category of biosensor. Biosensors and Bioelectronics, 2009, 24, 1837-1842.	10.1	71
149	The construction of a glucose-sensing luciferase. Biosensors and Bioelectronics, 2009, 25, 76-81.	10.1	20
150	Zn finger-based direct detection system for PCR products of Salmonella spp. and the Influenza A virus. Biotechnology Letters, 2009, 31, 725-733.	2.2	13
151	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
152	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
153	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
154	Wireless enzyme sensor system for real-time monitoring of blood glucose levels in fish. Biosensors and Bioelectronics, 2009, 24, 1417-1423.	10.1	59
155	Kinetic Mechanism and Inhibitor Characterization of WNK1 Kinase. Biochemistry, 2009, 48, 10255-10266.	2.5	20
156	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
157	The Inhibition of Amyloid Fibrillation Using the Proteolytic Products of PQQ-Modified Î±-Synuclein. Open Biotechnology Journal, 2009, 3, 40-45.	1.2	6
158	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
159	Nanostructure Fabrication Based on Engineered Î±-Synuclein. Nanobiotechnology, 2008, 4, 50-55.	1.2	10
160	Aptameric enzyme subunit for homogeneous DNA sensing. Biotechnology Letters, 2008, 30, 243-252.	2.2	18
161	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. Biotechnology Letters, 2008, 30, 421-425.	2.2	22
162	Selection of DNA aptamers against VEGF165 using a protein competitor and the aptamer blotting method. Biotechnology Letters, 2008, 30, 829-834.	2.2	74

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163	Engineering of ligand specificity of periplasmic binding protein for glucose sensing. Biotechnology Letters, 2008, 30, 1453-1460.	2.2	36
164	Biofuel cell system employing thermostable glucose dehydrogenase. Biotechnology Letters, 2008, 30, 1753-1758.	2.2	37
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