

Koji Sode

List of Publications by Citations

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

353
papers

7,634
citations

43
h-index

67
g-index

377
ext. papers

8,481
ext. citations

5.1
avg, IF

6
L-index

#	Paper	IF	Citations
353	Uniform molecularly imprinted microspheres and nanoparticles prepared by precipitation polymerization: the control of particle size suitable for different analytical applications. <i>Analytica Chimica Acta</i> , 2007 , 584, 112-21	6.6	342
352	Review of glucose oxidases and glucose dehydrogenases: a bird's eye view of glucose sensing enzymes. <i>Journal of Diabetes Science and Technology</i> , 2011 , 5, 1068-76	4.1	263
351	Novel electrochemical sensor system for protein using the aptamers in sandwich manner. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2168-72	11.8	236
350	Selection of DNA aptamer against prostate specific antigen using a genetic algorithm and application to sensing. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1386-91	11.8	129
349	An iron-regulated gene, magA, encoding an iron transport protein of <i>Magnetospirillum</i> sp. strain AMB-1. <i>Journal of Biological Chemistry</i> , 1995 , 270, 28392-6	5.4	118
348	Improvement of Aptamer Affinity by Dimerization. <i>Sensors</i> , 2008 , 8, 1090-1098	3.8	115
347	Selection of DNA aptamers that recognize Bsynuclein oligomers using a competitive screening method. <i>Analytical Chemistry</i> , 2012 , 84, 5542-7	7.8	111
346	Screening and improvement of an anti-VEGF DNA aptamer. <i>Molecules</i> , 2010 , 15, 215-25	4.8	100
345	Selection of DNA aptamers against insulin and construction of an aptameric enzyme subunit for insulin sensing. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1116-20	11.8	97
344	Development of a novel glucose enzyme fuel cell system employing protein engineered PQQ glucose dehydrogenase. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2145-50	11.8	97
343	Electrochemical Detection of Protein Using a Double Aptamer Sandwich. <i>Analytical Letters</i> , 2004 , 37, 2901-2909	2.2	93
342	Production of hydrogen and methane from organic solid wastes by phase-separation of anaerobic process. <i>Bioresource Technology</i> , 2007 , 98, 1861-5	11	91
341	A novel wireless glucose sensor employing direct electron transfer principle based enzyme fuel cell. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2250-5	11.8	90
340	Biosensor for detection of organophosphate and carbamate insecticides. <i>Electroanalysis</i> , 1992 , 4, 249-252		88
339	Gene transfer in magnetic bacteria: transposon mutagenesis and cloning of genomic DNA fragments required for magnetosome synthesis. <i>Journal of Bacteriology</i> , 1992 , 174, 2748-53	3.5	86
338	Disinfection of drinking water by using a novel electrochemical reactor employing carbon-cloth electrodes. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 686-9	4.8	80
337	Glutamate production from CO ₂ by Marine Cyanobacterium <i>Synechococcus</i> sp.. <i>Applied Biochemistry and Biotechnology</i> , 1991 , 28-29, 157-167	3.2	73

336	Structural analysis of fungus-derived FAD glucose dehydrogenase. <i>Scientific Reports</i> , 2015 , 5, 13498	4.9	68
335	Aptameric enzyme subunit for biosensing based on enzymatic activity measurement. <i>Analytical Chemistry</i> , 2006 , 78, 3296-303	7.8	67
334	Selection of DNA aptamers against VEGF165 using a protein competitor and the aptamer blotting method. <i>Biotechnology Letters</i> , 2008 , 30, 829-34	3	66
333	BioCapacitor: A novel principle for biosensors. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 20-8	11.8	65
332	Towards the use of molecularly imprinted polymers containing imidazoles and bivalent metal complexes for the detection and degradation of organophosphotriester pesticides. <i>Analytica Chimica Acta</i> , 2001 , 435, 209-214	6.6	63
331	Integrated biosensor for glucose and galactose. <i>Analytica Chimica Acta</i> , 1989 , 218, 137-142	6.6	63
330	CO2 removal by high-density culture of a marine cyanobacterium <i>synechococcus</i> sp. using an improved photobioreactor employing light-diffusing optical fibers. <i>Applied Biochemistry and Biotechnology</i> , 1992 , 34-35, 449-458	3.2	62
329	BioCapacitor--a novel category of biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1837-42	11.8	61
328	Fluorescence resonance energy transfer from pyrene to perylene labels for nucleic acid hybridization assays under homogeneous solution conditions. <i>Nucleic Acids Research</i> , 2000 , 28, E34	20.1	60
327	Methanogenesis from acetate and propionate by thermophilic down-flow anaerobic packed-bed reactor. <i>Bioresource Technology</i> , 2008 , 99, 4786-95	11	59
326	Increasing the thermal stability of the water-soluble pyrroloquinoline quinone glucose dehydrogenase by single amino acid replacement. <i>Enzyme and Microbial Technology</i> , 2000 , 26, 491-496	3.8	58
325	Extended-range glucose sensor employing engineered glucose dehydrogenases. <i>Analytical Chemistry</i> , 2000 , 72, 4689-93	7.8	55
324	Engineering of a green-light inducible gene expression system in <i>Synechocystis</i> sp. PCC6803. <i>Microbial Biotechnology</i> , 2014 , 7, 177-83	6.3	54
323	Wireless enzyme sensor system for real-time monitoring of blood glucose levels in fish. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1417-23	11.8	54
322	Pyrroloquinoline quinone (PQQ) prevents fibril formation of alpha-synuclein. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 349, 1139-44	3.4	53
321	Engineering PQQ glucose dehydrogenase with improved substrate specificity. Site-directed mutagenesis studies on the active center of PQQ glucose dehydrogenase. <i>New Biotechnology</i> , 2004 , 21, 81-9		53
320	A green-light inducible lytic system for cyanobacterial cells. <i>Biotechnology for Biofuels</i> , 2014 , 7, 56	7.8	52
319	Construction of a molecular imprinting catalyst using target analogue template and its application for an amperometric fructosylamine sensor. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 1485-90	11.8	51

318	A novel thermostable glucose dehydrogenase varying temperature properties by altering its quaternary structures. <i>Enzyme and Microbial Technology</i> , 1996 , 19, 82-85	3.8	50
317	Conjugative gene transfer in marine cyanobacteria: <i>Synechococcus</i> sp., <i>Synechocystis</i> sp. and <i>Pseudanabaena</i> sp. <i>Applied Microbiology and Biotechnology</i> , 1992 , 37, 369-73	5.7	49
316	Development of a flow-injection analysis (FIA) enzyme sensor for fructosyl amine monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 211-4	4.4	48
315	Application of bacterial magnetic particles for highly selective mRNA recovery system. <i>Biotechnology Letters</i> , 1993 , 7, 688-694		48
314	Development of acetylcholine sensor using carbon fiber (amperometric determination). <i>Biosensors and Bioelectronics</i> , 1991 , 6, 675-80	11.8	47
313	BioRadioTransmitter: a self-powered wireless glucose-sensing system. <i>Journal of Diabetes Science and Technology</i> , 2011 , 5, 1030-5	4.1	46
312	Construction and characterization of mutant water-soluble PQQ glucose dehydrogenases with altered K(m) values--site-directed mutagenesis studies on the putative active site. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 264, 820-4	3.4	46
311	Development of a third-generation glucose sensor based on the open circuit potential for continuous glucose monitoring. <i>Biosensors and Bioelectronics</i> , 2019 , 124-125, 216-223	11.8	45
310	Cloning and functional expression of glucose dehydrogenase complex of <i>Burkholderia cepacia</i> in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2006 , 123, 127-36	3.7	43
309	Development of a compact high-density microbial hydrogen reactor for portable bio-fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1484-1489	6.7	43
308	Enhancement of the catalytic activity of an artificial phosphotriesterase using a molecular imprinting technique. <i>Biotechnology Letters</i> , 2003 , 25, 1075-80	3	43
307	Amperometric determination of choline and acetylcholine with enzymes immobilized in a photocross-linkable polymer. <i>Analytica Chimica Acta</i> , 1990 , 228, 49-53	6.6	43
306	Review of fructosyl amino acid oxidase engineering research: a glimpse into the future of hemoglobin A1c biosensing. <i>Journal of Diabetes Science and Technology</i> , 2009 , 3, 585-92	4.1	42
305	Direct electron transfer type disposable sensor strip for glucose sensing employing an engineered FAD glucose dehydrogenase. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 123-8	3.8	41
304	PQQ glucose dehydrogenase with novel electron transfer ability. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 793-7	3.4	40
303	FAD dependent glucose dehydrogenases - Discovery and engineering of representative glucose sensing enzymes. <i>Bioelectrochemistry</i> , 2020 , 132, 107414	5.6	40
302	Molecular engineering of PQQGDH and its applications. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 428, 52-63	4.1	37
301	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 245-52	3.4	36

300	Continuous glucose monitoring systems - Current status and future perspectives of the flagship technologies in biosensor research. <i>Biosensors and Bioelectronics</i> , 2021 , 181, 113054	11.8	36
299	Cloning and expression of the gene encoding catalytic subunit of thermostable glucose dehydrogenase from <i>Burkholderia cepacia</i> in <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1645, 133-8	4	35
298	Novel fungal FAD glucose dehydrogenase derived from <i>Aspergillus niger</i> for glucose enzyme sensor strips. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 305-311	11.8	34
297	Design of riboregulators for control of cyanobacterial (<i>Synechocystis</i>) protein expression. <i>Biotechnology Letters</i> , 2014 , 36, 287-94	3	34
296	Screening of DNA aptamer which binds to alpha-synuclein. <i>Biotechnology Letters</i> , 2010 , 32, 643-8	3	34
295	Biofuel cell system employing thermostable glucose dehydrogenase. <i>Biotechnology Letters</i> , 2008 , 30, 1753-8	3	34
294	Screening of DNA aptamer against mouse prion protein by competitive selection. <i>Prion</i> , 2007 , 1, 248-54	2.3	34
293	Molecular Imprinting Catalyst Based Artificial Enzyme Sensor for Fructosylamines. <i>Analytical Letters</i> , 2003 , 36, 75-89	2.2	34
292	Increasing stability of water-soluble PQQ glucose dehydrogenase by increasing hydrophobic interaction at dimeric interface. <i>BMC Biochemistry</i> , 2005 , 6, 1	4.8	34
291	Effect of reparation of repeat sequences in the human alpha-synuclein on fibrillation ability. <i>International Journal of Biological Sciences</i> , 2006 , 3, 1-7	11.2	33
290	Engineering of ligand specificity of periplasmic binding protein for glucose sensing. <i>Biotechnology Letters</i> , 2008 , 30, 1453-60	3	33
289	Amperometric DNA sensor using the pyrroquinoline quinone glucose dehydrogenase-avidin conjugate. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 1075-80	11.8	33
288	High-rate thermophilic methane fermentation on short-chain fatty acids in a down-flow anaerobic packed-bed reactor. <i>Bioprocess and Biosystems Engineering</i> , 2005 , 27, 105-13	3.7	33
287	Screening and characterization of fructosyl-valine-utilizing marine microorganisms. <i>Marine Biotechnology</i> , 2001 , 3, 126-32	3.4	33
286	Development of an Enzyme Sensor Utilizing a Novel Fructosyl Amine Oxidase from a Marine Yeast. <i>Electrochemistry</i> , 2000 , 68, 869-871	1.2	33
285	Microbial BOD Sensor Utilizing Thermophilic Bacteria. <i>Analytical Letters</i> , 1989 , 22, 791-801	2.2	33
284	The electrochemical behavior of a FAD dependent glucose dehydrogenase with direct electron transfer subunit by immobilization on self-assembled monolayers. <i>Bioelectrochemistry</i> , 2018 , 121, 1-6	5.6	31
283	Improving the gene-regulation ability of small RNAs by scaffold engineering in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2014 , 3, 152-62	5.7	31

282	Detection system based on the conformational change in an aptamer and its application to simple bound/free separation. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1372-6	11.8	31
281	Peptide ligand screening of alpha-synuclein aggregation modulators by in silico panning. <i>BMC Bioinformatics</i> , 2007 , 8, 451	3.6	31
280	A molecularly imprinted catalyst designed by a computational approach in catalysing a transesterification process. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 1068-75	11.8	31
279	Thermostable chimeric PQQ glucose dehydrogenase. <i>FEBS Letters</i> , 1995 , 364, 325-7	3.8	31
278	Screening of Aspergillus-derived FAD-glucose dehydrogenases from fungal genome database. <i>Biotechnology Letters</i> , 2011 , 33, 2255-63	3	30
277	A new concept for the construction of an artificial dehydrogenase for fructosylamine compounds and its application for an amperometric fructosylamine sensor. <i>Analytica Chimica Acta</i> , 2001 , 435, 151-156	6.6	30
276	Engineering a chimeric pyrroloquinoline quinone glucose dehydrogenase: improvement of EDTA tolerance, thermal stability and substrate specificity. <i>Protein Engineering, Design and Selection</i> , 1999 , 12, 63-70	1.9	29
275	Development of a glucose sensor employing quick and easy modification method with mediator for altering electron acceptor preference. <i>Bioelectrochemistry</i> , 2018 , 121, 185-190	5.6	28
274	Construction of mutant glucose oxidases with increased dye-mediated dehydrogenase activity. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 14149-57	6.3	28
273	The inhibitory effect of pyrroloquinoline quinone on the amyloid formation and cytotoxicity of truncated alpha-synuclein. <i>Molecular Neurodegeneration</i> , 2010 , 5, 20	19	28
272	Elucidation of the region responsible for EDTA tolerance in PQQ glucose dehydrogenases by constructing Escherichia coli and Acinetobacter calcoaceticus chimeric enzymes. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 211, 268-73	3.4	28
271	Subzero temperature operating biosensor utilizing an organic solvent and quinoprotein glucose dehydrogenase. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 251-4	4.9	28
270	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 114-123	11.8	27
269	Development of fructosyl amine oxidase specific to fructosyl valine by site-directed mutagenesis. <i>Protein Engineering, Design and Selection</i> , 2008 , 21, 233-9	1.9	27
268	Stabilization of quaternary structure of water-soluble quinoprotein glucose dehydrogenase. <i>Molecular Biotechnology</i> , 2003 , 24, 97-104	3	27
267	Subunit analyses of a novel thermostable glucose dehydrogenase showing different temperature properties according to its quaternary structure. <i>Applied Biochemistry and Biotechnology</i> , 1999 , 77, 325-336	3.2	27
266	Pyrroloquinoline quinone inhibits the fibrillation of amyloid proteins. <i>Prion</i> , 2010 , 4, 26-31	2.3	26
265	An Fe-S cluster in the conserved Cys-rich region in the catalytic subunit of FAD-dependent dehydrogenase complexes. <i>Bioelectrochemistry</i> , 2016 , 112, 178-83	5.6	25

264	Construction of engineered fructosyl peptidyl oxidase for enzyme sensor applications under normal atmospheric conditions. <i>Biotechnology Letters</i> , 2012 , 34, 491-7	3	25
263	Active site analysis of fructosyl amine oxidase using homology modeling and site-directed mutagenesis. <i>Biotechnology Letters</i> , 2006 , 28, 1895-900	3	25
262	Purification of a marine bacterial glucose dehydrogenase from <i>Cytophaga marinoflava</i> and its application for measurement of 1,5-anhydro-D-glucitol. <i>Applied Biochemistry and Biotechnology</i> , 1996 , 56, 301-10	3.2	25
261	Engineered Glucose Oxidase Capable of Quasi-Direct Electron Transfer after a Quick-and-Easy Modification with a Mediator. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	24
260	Engineering glucose oxidase to minimize the influence of oxygen on sensor response. <i>Electrochimica Acta</i> , 2014 , 126, 158-161	6.7	24
259	Scaffold-fused riboregulators for enhanced gene activation in <i>Synechocystis</i> sp. PCC 6803. <i>MicrobiologyOpen</i> , 2015 , 4, 533-40	3.4	24
258	Stabilization of fungi-derived recombinant FAD-dependent glucose dehydrogenase by introducing a disulfide bond. <i>Biotechnology Letters</i> , 2015 , 37, 1091-9	3	24
257	Improved substrate specificity and dynamic range for glucose measurement of <i>Escherichia coli</i> PQQ glucose dehydrogenase by site directed mutagenesis. <i>Biotechnology Letters</i> , 1997 , 19, 1073-1077	3	24
256	SPCE based glucose sensor employing novel thermostable glucose dehydrogenase, FADGDH: blood glucose measurement with 150nL sample in one second. <i>Journal of Diabetes Science and Technology</i> , 2007 , 1, 28-35	4.1	24
255	Essential role of the small subunit of thermostable glucose dehydrogenase from <i>Burkholderia cepacia</i> . <i>Biotechnology Letters</i> , 2004 , 26, 1757-61	3	24
254	Glucose enzyme electrode using cytochrome b(562) as an electron mediator. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 699-704	11.8	24
253	A novel microbial sensor using luminous bacteria. <i>Biosensors and Bioelectronics</i> , 1992 , 7, 273-7	11.8	24
252	On-line monitoring of marine cyanobacterial cultivation based on phycocyanin fluorescence. <i>Journal of Biotechnology</i> , 1991 , 21, 209-17	3.7	24
251	Site directed mutagenesis studies of FAD-dependent glucose dehydrogenase catalytic subunit of <i>Burkholderia cepacia</i> . <i>Biotechnology Letters</i> , 2008 , 30, 1967-72	3	23
250	Isolation and characterization of a fructosyl-amine oxidase from an <i>Arthrobacter</i> sp. <i>Biotechnology Letters</i> , 2005 , 27, 27-32	3	23
249	Construction of Engineered Water-soluble PQQ Glucose Dehydrogenase with Improved Substrate Specificity. <i>Biocatalysis and Biotransformation</i> , 2002 , 20, 405-412	2.5	23
248	On-line monitoring of the viscosity in dextran fermentation using piezoelectric quartz crystal. <i>Biotechnology and Bioengineering</i> , 1990 , 36, 636-41	4.9	23
247	Detection of pathogenic bacteria by using zinc finger protein fused with firefly luciferase. <i>Analytical Chemistry</i> , 2012 , 84, 8028-32	7.8	22

246	Construction and Characterization of Direct Electron Transfer-Type Continuous Glucose Monitoring System Employing Thermostable Glucose Dehydrogenase Complex. <i>Analytical Letters</i> , 2008 , 41, 2363-2373	2.3	22
245	Microbial conversion of beta-ionone by immobilized <i>Aspergillus niger</i> in the presence of an organic solvent. <i>Biotechnology and Bioengineering</i> , 1989 , 33, 1191-5	4.9	22
244	Functional expression of <i>Phanerochaete chrysosporium</i> cellobiose dehydrogenase flavin domain in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2010 , 32, 855-9	3	21
243	Engineering of dye-mediated dehydrogenase property of fructosyl amino acid oxidases by site-directed mutagenesis studies of its putative proton relay system. <i>Biotechnology Letters</i> , 2010 , 32, 1123-9	3	21
242	In silico panning for a non-competitive peptide inhibitor. <i>BMC Bioinformatics</i> , 2007 , 8, 11	3.6	21
241	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. <i>Biotechnology Letters</i> , 2008 , 30, 421-5	3	21
240	A screening method for DNA aptamers that bind to a specific, unidentified protein in tissue samples. <i>Biotechnology Letters</i> , 2006 , 28, 1377-81	3	21
239	Biodegradation of formaldehyde by a formaldehyde-resistant bacterium isolated from seawater. <i>Applied Biochemistry and Biotechnology</i> , 2001 , 91-93, 213-7	3.2	21
238	Increased thermal stability of glucose dehydrogenase by cross-linking chemical modification. <i>Biotechnology Letters</i> , 1999 , 21, 199-202	3	21
237	Screening of marine cyanobacteria for high palmitoleic acid production. <i>FEMS Microbiology Letters</i> , 1995 , 133, 137-141	2.9	21
236	Production of gamma-linolenic acid from the marine green alga <i>Chlorella</i> sp. NKG 042401. <i>FEMS Microbiology Letters</i> , 1993 , 107, 163-7	2.9	21
235	The development of an autonomous self-powered bio-sensing actuator. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 429-433	8.5	20
234	Development of a screen-printed carbon electrode based disposable enzyme sensor strip for the measurement of glycated albumin. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 167-173	11.8	20
233	Mediator Preference of Two Different FAD-Dependent Glucose Dehydrogenases Employed in Disposable Enzyme Glucose Sensors. <i>Sensors</i> , 2017 , 17,	3.8	20
232	An Aptamer-Based Bound/Free Separation System for Protein Detection. <i>Electroanalysis</i> , 2009 , 21, 1297-1302	3.1	20
231	Glu742 substitution to Lys enhances the EDTA tolerance of <i>Escherichia coli</i> PQQ glucose dehydrogenase. <i>Biotechnology Letters</i> , 1994 , 16, 455-460	3	20
230	Application of microbiological sensors in fermentation processes. <i>Analytica Chimica Acta</i> , 1988 , 213, 69-77	6.6	20
229	Fructosyl Amine Sensing Based on Prussian Blue Modified Enzyme Electrode. <i>Electrochemistry</i> , 2001 , 69, 973-975	1.2	20

228	Third generation impedimetric sensor employing direct electron transfer type glucose dehydrogenase. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 189-197	11.8	20
227	Cumulative effect of amino acid substitution for the development of fructosyl valine-specific fructosyl amine oxidase. <i>Enzyme and Microbial Technology</i> , 2009 , 44, 52-56	3.8	19
226	Kinetic mechanism and inhibitor characterization of WNK1 kinase. <i>Biochemistry</i> , 2009 , 48, 10255-66	3.2	19
225	The Application of Engineered Glucose Dehydrogenase to a Direct Electron Transfer-Type Continuous Glucose Monitoring System and a Compartmentless Biofuel Cell. <i>Analytical Letters</i> , 2007 , 40, 431-440	2.2	19
224	Increased production of recombinant pyrroloquinoline quinone (PQQ) glucose dehydrogenase by metabolically engineered Escherichia coli strain capable of PQQ biosynthesis. <i>Journal of Biotechnology</i> , 1996 , 49, 239-43	3.7	19
223	Improvement of the VEGF binding ability of DNA aptamers through in silico maturation and multimerization strategy. <i>Journal of Biotechnology</i> , 2015 , 212, 99-105	3.7	18
222	Construction of a Miniaturized Chromatic Acclimation Sensor from Cyanobacteria with Reversed Response to a Light Signal. <i>Scientific Reports</i> , 2016 , 6, 37595	4.9	18
221	Simultaneous improvement of specificity and affinity of aptamers against Streptococcus mutans by in silico maturation for biosensor development. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 454-61	4.9	18
220	The construction of a glucose-sensing luciferase. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 76-81	11.8	18
219	Fluorescent measurement of 1,5-anhydro-d-glucitol based on a novel marine bacterial glucose dehydrogenase. <i>Enzyme and Microbial Technology</i> , 1998 , 22, 269-274	3.8	18
218	Development of a compact stacked flatbed reactor with immobilized high-density bacteria for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1593-1597	6.7	18
217	Continuous Asymmetric Reduction Of 4-Oxoisophorone By Thermophilic Bacteria Using A Hollow Fiber Reactor. <i>Biocatalysis</i> , 1987 , 1, 77-86		18
216	Development of Highly-sensitive Fructosyl-valine Enzyme Sensor Employing Recombinant Fructosyl Amine Oxidase. <i>Electrochemistry</i> , 2003 , 71, 442-445	1.2	18
215	Affinity sensor for haemoglobin A1c based on single-walled carbon nanotube field-effect transistor and fructosyl amino acid binding protein. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 254-259	11.8	18
214	Direct electron transfer (DET) mechanism of FAD dependent dehydrogenase complexes ~from the elucidation of intra- and inter-molecular electron transfer pathway to the construction of engineered DET enzyme complexes~. <i>Current Opinion in Electrochemistry</i> , 2018 , 12, 92-100	7.2	17
213	The effect of amino acid substitution in the imperfect repeat sequences of alpha-synuclein on fibrillation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009 , 1792, 998-1003	6.9	17
212	BioLC-Oscillator: A Self-Powered Wireless Glucose-Sensing System with the Glucose Dependent Resonance Frequency. <i>Electrochemistry</i> , 2012 , 80, 367-370	1.2	17
211	The simple and rapid detection of specific PCR products from bacterial genomes using Zn finger proteins. <i>Nucleic Acids Research</i> , 2008 , 36, e68	20.1	17

210	Salinity-dependent copy number increase of a marine cyanobacterial endogenous plasmid. <i>FEMS Microbiology Letters</i> , 1991 , 90, 95-98	2.9	17
209	Rational engineering of <i>Aerococcus viridans</i> -lactate oxidase for the mediator modification to achieve quasi-direct electron transfer type lactate sensor. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 111974	11.8	17
208	Minimizing the effects of oxygen interference on l-lactate sensors by a single amino acid mutation in <i>Aerococcus viridans</i> -lactate oxidase. <i>Biosensors and Bioelectronics</i> , 2018 , 103, 163-170	11.8	16
207	Development of an electrochemical detection system for measuring DNA methylation levels using methyl CpG-binding protein and glucose dehydrogenase-fused zinc finger protein. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 118-123	11.8	16
206	Continuous operation of an ultra-low-power microcontroller using glucose as the sole energy source. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 335-339	11.8	16
205	Structural basis of efficient electron transport between photosynthetic membrane proteins and plastocyanin in spinach revealed using nuclear magnetic resonance. <i>Plant Cell</i> , 2012 , 24, 4173-86	11.6	16
204	Aptameric enzyme subunit for homogeneous DNA sensing. <i>Biotechnology Letters</i> , 2008 , 30, 243-52	3	16
203	Maintenance of broad host range vector pKT230 in marine unicellular cyanobacteria. <i>FEMS Microbiology Letters</i> , 1992 , 99, 73-78	2.9	16
202	Engineering fructosyl peptide oxidase to improve activity toward the fructosyl hexapeptide standard for HbA1c measurement. <i>Molecular Biotechnology</i> , 2013 , 54, 939-43	3	15
201	The development and characterization of an exogenous green-light-regulated gene expression system in marine cyanobacteria. <i>Marine Biotechnology</i> , 2015 , 17, 245-51	3.4	15
200	Characterization and application of aptamers for Taq DNA polymerase selected using an evolution-mimicking algorithm. <i>Biotechnology Letters</i> , 2006 , 28, 1939-44	3	15
199	THE APPLICATION OF CYTOCHROMES AS THE INTERFACE MOLECULE TO FACILITATE THE ELECTRON TRANSFER FOR PQQ GLUCOSE DEHYDROGENASE EMPLOYING MEDIATOR TYPE GLUCOSE SENSOR. <i>Analytical Letters</i> , 2002 , 35, 1465-1478	2.2	15
198	Electrochemical disinfection of marine bacteria attached on a plastic electrode. <i>Bioelectrochemistry</i> , 1992 , 27, 191-198		15
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196	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. <i>Chemical Communications</i> , 2016 , 52, 12646-12649	5.8	15
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