

Kazunori Ikebukuro

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8539891/publications.pdf>

Version: 2024-02-01

251
papers

7,236
citations

57758

44
h-index

88630

70
g-index

255
all docs

255
docs citations

255
times ranked

6136
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel electrochemical sensor system for protein using the aptamers in sandwich manner. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2168-2172.	10.1	259
2	Methods for Improving Aptamer Binding Affinity. <i>Molecules</i> , 2016, 21, 421.	3.8	181
3	Selection of DNA Aptamers That Recognize β -Synuclein Oligomers Using a Competitive Screening Method. <i>Analytical Chemistry</i> , 2012, 84, 5542-5547.	6.5	167
4	Electrochemical Protein Chip with Arrayed Immunosensors with Antibodies Immobilized in a Plasma-Polymerized Film. <i>Analytical Chemistry</i> , 2003, 75, 1116-1122.	6.5	162
5	Selection of DNA aptamer against prostate specific antigen using a genetic algorithm and application to sensing. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1386-1391.	10.1	147
6	Improvement of Aptamer Affinity by Dimerization. <i>Sensors</i> , 2008, 8, 1090-1098.	3.8	136
7	Selection of DNA aptamers against insulin and construction of an aptameric enzyme subunit for insulin sensing. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1116-1120.	10.1	116
8	Screening and Improvement of an Anti-VEGF DNA Aptamer. <i>Molecules</i> , 2010, 15, 215-225.	3.8	116
9	Electrochemical Detection of Protein Using a Double Aptamer Sandwich. <i>Analytical Letters</i> , 2004, 37, 2901-2909.	1.8	115
10	Development of a novel glucose enzyme fuel cell system employing protein engineered PQQ glucose dehydrogenase. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2145-2150.	10.1	109
11	Detection of PCR Products in Solution Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 1999, 71, 796-800.	6.5	100
12	Photocatalytic sensor for the determination of chemical oxygen demand using flow injection analysis. <i>Analytica Chimica Acta</i> , 2001, 432, 59-66.	5.4	99
13	Simple and rapid detection method using surface plasmon resonance for dioxins, polychlorinated biphenyls and atrazine. <i>Analytica Chimica Acta</i> , 2001, 434, 223-230.	5.4	97
14	Affinity Improvement of a VEGF Aptamer by <i>in Silico</i> Maturation for a Sensitive VEGF-Detection System. <i>Analytical Chemistry</i> , 2013, 85, 1132-1137.	6.5	92
15	A Plasma-Polymerized Film for Surface Plasmon Resonance Immunosensing. <i>Analytical Chemistry</i> , 1997, 69, 4649-4652.	6.5	91
16	Application of peptide nucleic acid to the direct detection of deoxyribonucleic acid amplified by polymerase chain reaction. <i>Biosensors and Bioelectronics</i> , 1999, 14, 397-404.	10.1	88
17	A novel method of screening thrombin-inhibiting DNA aptamers using an evolution-mimicking algorithm. <i>Nucleic Acids Research</i> , 2005, 33, e108-e108.	14.5	87
18	Highly sensitive quartz crystal immunosensors for multisample detection of herbicides. <i>Analytica Chimica Acta</i> , 1995, 304, 139-145.	5.4	83

#	ARTICLE	IF	CITATIONS
19	Optical fiber biosensor for the determination of low biochemical oxygen demand. <i>Biosensors and Bioelectronics</i> , 2000, 15, 371-376.	10.1	82
20	Cyanide hydrolysis in a cyanide-degrading bacterium, <i>Pseudomonas stutzeri</i> AK61, by cyanidase. <i>Microbiology (United Kingdom)</i> , 1998, 144, 1677-1682.	1.8	79
21	Photocatalytic Sensor for Chemical Oxygen Demand Determination Based on Oxygen Electrode. <i>Analytical Chemistry</i> , 2000, 72, 3379-3382.	6.5	77
22	Selection of DNA aptamers against VEGF165 using a protein competitor and the aptamer blotting method. <i>Biotechnology Letters</i> , 2008, 30, 829-834.	2.2	74
23	Recognition of barbiturates in molecularly imprinted copolymers using multiple hydrogen bonding. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2303.	2.0	73
24	A Flow Method with Photocatalytic Oxidation of Dissolved Organic Matter Using a Solid-Phase (TiO ₂) Reactor Followed by Amperometric Detection of Consumed Oxygen. <i>Analytical Chemistry</i> , 2002, 74, 3858-3864.	6.5	72
25	Aptameric Enzyme Subunit for Biosensing Based on Enzymatic Activity Measurement. <i>Analytical Chemistry</i> , 2006, 78, 3296-3303.	6.5	72
26	BioCapacitor—A novel category of biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1837-1842.	10.1	71
27	Selective piezoelectric odor sensors using molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 1999, 390, 93-100.	5.4	70
28	Molecularly imprinted polymers which mimic multiple hydrogen bonds between nucleotide bases. <i>Analytica Chimica Acta</i> , 1998, 363, 111-117.	5.4	68
29	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.	10.1	68
30	Engineering of a green light inducible gene expression system in <i>Synechocystis</i> sp. PCC 6803. <i>Microbial Biotechnology</i> , 2014, 7, 177-183.	4.2	66
31	G-quadruplex: Flexible conformational changes by cations, pH, crowding and its applications to biosensing. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113030.	10.1	66
32	The Conserved Residue Tyrosine 34 Is Essential for Maximal Activity of Iron-Superoxide Dismutase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1997, 36, 4925-4933.	2.5	64
33	Pyroloquinoline quinone (PQQ) prevents fibril formation of α -synuclein. <i>Biochemical and Biophysical Research Communications</i> , 2006, 349, 1139-1144.	2.1	64
34	Application of a linear alkylbenzene sulfonate biosensor to river water monitoring. <i>Biosensors and Bioelectronics</i> , 1998, 13, 1047-1053.	10.1	61
35	Visualization of G-quadruplexes by using a BODIPY-labeled macrocyclic heptaaxazole. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2749.	2.8	61
36	Application of polymer-embedded proteins to fabrication of DNA array. <i>Biotechnology and Bioengineering</i> , 2000, 69, 323-329.	3.3	60

#	ARTICLE	IF	CITATIONS
37	A green-light inducible lytic system for cyanobacterial cells. <i>Biotechnology for Biofuels</i> , 2014, 7, 56.	6.2	59
38	Interaction of three-way DNA junctions with steroids. <i>Nucleic Acids Research</i> , 2000, 28, 1963-1968.	14.5	52
39	BioRadioTransmitter: A Self-Powered Wireless Glucose-Sensing System. <i>Journal of Diabetes Science and Technology</i> , 2011, 5, 1030-1035.	2.2	52
40	A Novel Microbial Sensor for Anionic Surfactant Determination. <i>Analytical Letters</i> , 1994, 27, 3095-3108.	1.8	48
41	Recognition in Novel Molecularly Imprinted Polymer Sialic Acid Receptors in Aqueous Media. <i>Analytical Letters</i> , 1996, 29, 1099-1107.	1.8	48
42	Development of photocatalytic biosensor for the evaluation of biochemical oxygen demand. <i>Biosensors and Bioelectronics</i> , 2005, 21, 67-73.	10.1	48
43	In vitro selection of DNA aptamers which bind to cholic acid. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1493, 12-18.	2.4	47
44	Refractive-index and thickness sensitivity in surface plasmon resonance spectroscopy. <i>Applied Optics</i> , 1999, 38, 4058.	2.1	46
45	Relationship between theoretical oxygen demand and photocatalytic chemical oxygen demand for specific classes of organic chemicals. <i>Analyst, The</i> , 2000, 125, 1915-1918.	3.5	46
46	Fluorescentâ€Ligandâ€Mediated Screening of Câ€Quadruplex Structures Using a DNA Microarray. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12052-12055.	13.8	45
47	A novel biosensor system for the determination of phosphate. <i>Journal of Biotechnology</i> , 1996, 48, 67-72.	3.8	44
48	Stereoselective recognition of dipeptide derivatives in molecularly imprinted polymers which incorporate an l-valine derivative as a novel functional monomer. <i>Analytica Chimica Acta</i> , 1997, 357, 91-98.	5.4	44
49	An automatic flow-injection analysis system for determining phosphate ion in river water using pyruvate oxidase G (from <i>Aerococcus viridans</i>). <i>Talanta</i> , 1999, 50, 799-807.	5.5	44
50	Increasing the sensitivity of piezoelectric odour sensors based on molecularly imprinted polymers. <i>Biosensors and Bioelectronics</i> , 2000, 15, 403-409.	10.1	44
51	Development of a Method To Measure DNA Methylation Levels by Using Methyl CpG-Binding Protein and Luciferase-Fused Zinc Finger Protein. <i>Analytical Chemistry</i> , 2012, 84, 8259-8264.	6.5	43
52	Rational engineering of <i>Aerococcus viridans</i> l-lactate oxidase for the mediator modification to achieve quasi-direct electron transfer type lactate sensor. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111974.	10.1	43
53	Flow injection microbial trichloroethylene sensor. <i>Talanta</i> , 2002, 57, 271-276.	5.5	42
54	Screening of DNA aptamer which binds to Î±-synuclein. <i>Biotechnology Letters</i> , 2010, 32, 643-648.	2.2	42

#	ARTICLE	IF	CITATIONS
55	In silico maturation of binding specificity of DNA aptamers against <i>Proteus mirabilis</i> . <i>Biotechnology and Bioengineering</i> , 2013, 110, 2573-2580.	3.3	42
56	Microbial cyanide sensor for monitoring river water. <i>Journal of Biotechnology</i> , 1996, 48, 73-80.	3.8	41
57	Molecular engineering of PQQGDH and its applications. <i>Archives of Biochemistry and Biophysics</i> , 2004, 428, 52-63.	3.0	41
58	Improving the Gene-Regulation Ability of Small RNAs by Scaffold Engineering in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2014, 3, 152-162.	3.8	41
59	Rational design of direct electron transfer type l-lactate dehydrogenase for the development of multiplexed biosensor. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112933.	10.1	40
60	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 245-252.	2.1	39
61	Screening of DNA Aptamer Against Mouse Prion Protein by Competitive Selection. <i>Prion</i> , 2007, 1, 248-254.	1.8	39
62	Designer fungus FAD glucose dehydrogenase capable of direct electron transfer. <i>Biosensors and Bioelectronics</i> , 2019, 123, 114-123.	10.1	39
63	Directed evolution of trypsin inhibiting peptides using a genetic algorithm. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 2435.	0.9	38
64	Effect of incident angle of light on sensitivity and detection limit for layers of antibody with surface plasmon resonance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2000, 15, 355-362.	10.1	38
65	Detection of PCR products of <i>Escherichia coli</i> O157:H7 in human stool samples using surface plasmon resonance (SPR). <i>FEMS Immunology and Medical Microbiology</i> , 2000, 29, 283-288.	2.7	38
66	Amperometric DNA sensor using the pyrroquinoline quinone glucose dehydrogenase-avidin conjugate. <i>Biosensors and Bioelectronics</i> , 2002, 17, 1075-1080.	10.1	38
67	Peptide ligand screening of α -synuclein aggregation modulators by in silico panning. <i>BMC Bioinformatics</i> , 2007, 8, 451.	2.6	38
68	Design of riboregulators for control of cyanobacterial (<i>Synechocystis</i>) protein expression. <i>Biotechnology Letters</i> , 2014, 36, 287-294.	2.2	38
69	A surface plasmon resonance probe with a novel integrated reference sensor surface. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1447-1453.	10.1	37
70	Optimization of the rate of DNA hybridization and rapid detection of methicillin resistant <i>Staphylococcus aureus</i> DNA using fluorescence polarization. <i>Journal of Biotechnology</i> , 1996, 48, 201-208.	3.8	36
71	Phosphate sensing system using pyruvate oxidase and chemiluminescence detection. <i>Biosensors and Bioelectronics</i> , 1996, 11, 959-965.	10.1	36
72	Microbial sensor for trichloroethylene determination. <i>Analytica Chimica Acta</i> , 2001, 431, 225-230.	5.4	36

#	ARTICLE	IF	CITATIONS
73	A chemiluminescent FIA biosensor for phosphate ion monitoring using pyruvate oxidase1Paper presented at Biosensors '96, Bangkok.1. Biosensors and Bioelectronics, 1997, 12, 959-966.	10.1	35
74	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
75	Disposable Chemical Oxygen Demand Sensor Using a Microfabricated Clark-Type Oxygen Electrode with a TiO ₂ Suspension Solution. Electroanalysis, 2000, 12, 1334-1338.	2.9	33
76	Detection of Atrazine Based on the SPR Determination of P450 mRNA Levels in <i>Saccharomyces cerevisiae</i> . Analytical Chemistry, 2000, 72, 2856-2860.	6.5	31
77	Integration of microfabricated needle-type glucose sensor devices with a novel thin-film Ag/AgCl electrode and plasma-polymerized thin film: mass production techniques. Analyst, The, 2001, 126, 658-663.	3.5	31
78	Development of a highly sensitive chemiluminescence flow-injection analysis sensor for phosphate-ion detection using maltose phosphorylase. Journal of Biotechnology, 1999, 75, 127-133.	3.8	30
79	Aptamer selection based on inhibitory activity using an evolution-mimicking algorithm. Biochemical and Biophysical Research Communications, 2006, 347, 226-231.	2.1	30
80	In silico panning for a non-competitive peptide inhibitor. BMC Bioinformatics, 2007, 8, 11.	2.6	30
81	Detection of DNA Methylation of G-Quadruplex and i-Motif-Forming Sequences by Measuring the Initial Elongation Efficiency of Polymerase Chain Reaction. Analytical Chemistry, 2016, 88, 7101-7107.	6.5	30
82	Pyrrroloquinoline quinone inhibits the fibrillation of amyloid proteins. Prion, 2010, 4, 26-31.	1.8	29
83	Aptamer Selection Based on G4-Forming Promoter Region. PLoS ONE, 2013, 8, e65497.	2.5	29
84	CpG Methylation Changes G-Quadruplex Structures Derived from Gene Promoters and Interaction with VEGF and SP1. Molecules, 2018, 23, 944.	3.8	29
85	Development of highly sensitive BOD sensor and its evaluation using preozonation. Analytica Chimica Acta, 1999, 394, 65-71.	5.4	28
86	Identification of G-quadruplex clusters by high-throughput sequencing of whole-genome amplified products with a G-quadruplex ligand. Scientific Reports, 2018, 8, 3116.	3.3	28
87	Flow-type cyanide sensor using an immobilized microorganism. Electroanalysis, 1996, 8, 876-879.	2.9	27
88	Application of chimeric RNA-DNA oligonucleotides to the detection of pathogenic microorganisms using surface plasmon resonance. Analytica Chimica Acta, 2000, 407, 1-10.	5.4	27
89	Electrochemical Detection of Vascular Endothelial Growth Factor with Aptamer Sandwich. Electrochemistry, 2012, 80, 363-366.	1.4	27
90	DETECTION OF PHYCOBILIN PIGMENTS AND THEIR SEASONAL CHANGE IN LAKE KASUMIGAUURA USING A SENSITIVE IN SITU FLUOROMETRIC SENSOR. Analytical Letters, 2001, 34, 2521-2533.	1.8	26

#	ARTICLE	IF	CITATIONS
91	Selection of DNA aptamers against uropathogenic <i>Escherichia coli</i> NSM59 by quantitative PCR controlled Cell-SELEX. <i>Journal of Microbiological Methods</i> , 2014, 104, 94-100.	1.6	26
92	Micromachined electroporation system for transgenic fish. <i>Journal of Biotechnology</i> , 1994, 34, 35-42.	3.8	25
93	Estimation of sensitivity for refractive index and immunoreaction in a surface plasmon resonance sensor probe. <i>Analytica Chimica Acta</i> , 2000, 417, 125-131.	5.4	25
94	High-Throughput Bioanalysis of Bevacizumab in Human Plasma Based on Enzyme-Linked Aptamer Assay Using Anti-Idiotypic DNA Aptamer. <i>Analytical Chemistry</i> , 2019, 91, 3125-3130.	6.5	25
95	Determination of cyanide using a microbial sensor. <i>Applied Biochemistry and Biotechnology</i> , 1996, 60, 97-106.	2.9	24
96	Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids. <i>Analytica Chimica Acta</i> , 1997, 340, 41-48.	5.4	24
97	A screening method for DNA aptamers that bind to a specific, unidentified protein in tissue samples. <i>Biotechnology Letters</i> , 2006, 28, 1377-1381.	2.2	24
98	An Aptamer-Based Bound/Free Separation System for Protein Detection. <i>Electroanalysis</i> , 2009, 21, 1297-1302.	2.9	24
99	Detection of Pathogenic Bacteria by Using Zinc Finger Protein Fused with Firefly Luciferase. <i>Analytical Chemistry</i> , 2012, 84, 8028-8032.	6.5	24
100	Scaffold-fused riboregulators for enhanced gene activation in <i>Synechocystis</i> sp. PCC 6803. <i>MicrobiologyOpen</i> , 2015, 4, 533-540.	3.0	24
101	Development of an odorant sensor using polymer-coated quartz crystals modified with unusual lipids. <i>Biosensors and Bioelectronics</i> , 1998, 13, 397-405.	10.1	23
102	Single nucleotide polymorphism typing on DNA array with hydrophobic surface fabricated by plasma-polymerization technique. <i>Biosensors and Bioelectronics</i> , 2004, 20, 184-189.	10.1	23
103	The effect of amino acid substitution in the imperfect repeat sequences of I \pm -synuclein on fibrillation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 998-1003.	3.8	23
104	The development of an autonomous self-powered bio-sensing actuator. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 429-433.	7.8	23
105	Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton <i>Heterosigma carterae</i> . <i>Analytica Chimica Acta</i> , 1999, 390, 237-244.	5.4	22
106	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. <i>Biotechnology Letters</i> , 2008, 30, 421-425.	2.2	22
107	Simultaneous improvement of specificity and affinity of aptamers against <i>Streptococcus mutans</i> by in silico maturation for biosensor development. <i>Biotechnology and Bioengineering</i> , 2014, 111, 454-461.	3.3	22
108	Biosensing based on NADH detection coupled to electrogenerated chemiluminescence from ruthenium tris(2,2'-bipyridine). <i>Talanta</i> , 1994, 41, 1035-1040.	5.5	21

#	ARTICLE	IF	CITATIONS
109	Bioassay of bile acids using an enzyme-linked DNA aptamer. <i>Analyst</i> , The, 2000, 125, 1371-1373.	3.5	21
110	Characterization and application of aptamers for Taq DNA polymerase selected using an evolution-mimicking algorithm. <i>Biotechnology Letters</i> , 2006, 28, 1939-1944.	2.2	21
111	The simple and rapid detection of specific PCR products from bacterial genomes using Zn finger proteins. <i>Nucleic Acids Research</i> , 2008, 36, e68-e68.	14.5	21
112	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.	10.1	21
113	A novel biosensor system for cyanide based on a chemiluminescence reaction. <i>Analytica Chimica Acta</i> , 1996, 329, 111-116.	5.4	20
114	A Glucose Sensor with a Plasma-Polymerized Thin Film Fabricated by Dry Processes. <i>Electroanalysis</i> , 1999, 11, 1098-1100.	2.9	20
115	Biosensor for the evaluation of biochemical oxygen demand using photocatalytic pretreatment. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 15-20.	7.8	20
116	Improvement of a CL-FIA System Using Maltose Phosphorylase for the Determination of Phosphate-Ion in Freshwater. <i>Analytical Letters</i> , 2003, 36, 1805-1817.	1.8	20
117	Kinetic Mechanism and Inhibitor Characterization of WNK1 Kinase. <i>Biochemistry</i> , 2009, 48, 10255-10266.	2.5	20
118	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.	3.8	20
119	A simple nitrate sensor system using titanium trichloride and an ammonium electrode. <i>Sensors and Actuators B: Chemical</i> , 2002, 85, 120-125.	7.8	19
120	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. <i>Chemical Communications</i> , 2016, 52, 12646-12649.	4.1	19
121	G-Quadruplex Structure Improves the Immunostimulatory Effects of CpG Oligonucleotides. <i>Nucleic Acid Therapeutics</i> , 2019, 29, 224-229.	3.6	19
122	Measurement of Sulfite Using Sulfite Oxidase and Luminol Chemiluminescence. <i>Analytical Communications</i> , 1997, 34, 299-302.	2.2	18
123	Development of an enzymatic flow-injection chemiluminescence system for determining inorganic pyrophosphate ion. <i>Analytica Chimica Acta</i> , 2004, 518, 45-49.	5.4	18
124	Aptameric enzyme subunit for homogeneous DNA sensing. <i>Biotechnology Letters</i> , 2008, 30, 243-252.	2.2	18
125	BioLC-Oscillator: A Self-Powered Wireless Glucose-Sensing System with the Glucose Dependent Resonance Frequency. <i>Electrochemistry</i> , 2012, 80, 367-370.	1.4	18
126	Partial Peptide of I \pm -Synuclein Modified with Small-Molecule Inhibitors Specifically Inhibits Amyloid Fibrillation of I \pm -Synuclein. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2590-2600.	4.1	18

#	ARTICLE	IF	CITATIONS
127	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. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112911.	10.1	18
128	Analysis of the evolution of the thrombin-inhibiting DNA aptamers using a genetic algorithm. <i>Biotechnology Letters</i> , 2006, 28, 1933-1937.	2.2	17
129	Applying a riboregulator as a new chromosomal gene regulation tool for higher glycogen production in <i>Synechocystis</i> sp. PCC 6803. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8465-8474.	3.6	17
130	Selective Recognition of 2,4-Dichlorophenoxyacetic Acid Using a Molecularly Imprinted Polymer. <i>Analytical Letters</i> , 1998, 31, 973-980.	1.8	16
131	Detection of toxic chemicals with high sensitivity by measuring the quantity of induced P450 mRNAs based on surface plasmon resonance. <i>Biotechnology and Bioengineering</i> , 2000, 71, 217-222.	3.3	16
132	Emerging techniques employed in aptamer-based diagnostic tests. <i>Expert Review of Molecular Diagnostics</i> , 2014, 14, 143-151.	3.1	16
133	Vascular Endothelial Growth Factor (VEGF) Detection Using an Aptamer and PNA-Based Bound/Free Separation System. <i>Materials</i> , 2014, 7, 1046-1054.	2.9	16
134	Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector. <i>Analytica Chimica Acta</i> , 1996, 329, 127-134.	5.4	15
135	Dioxin detection based on immunoassay using a polyclonal antibody against octa-chlorinated dibenzo-p-dioxin (OCDD). <i>Analyst</i> , The, 2001, 126, 1207-1209.	3.5	15
136	Development of a novel biosensing system based on the structural change of a polymerized guanine-quadruplex DNA nanostructure. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4837-4841.	10.1	15
137	Rapid Cytotoxicity Screening Platform for Amyloid Inhibitors Using a Membrane-Potential Sensitive Fluorescent Probe. <i>Analytical Chemistry</i> , 2013, 85, 185-192.	6.5	15
138	Pipette tip biosensors for bacterial double-stranded DNA using bioluminescence induced by zinc finger luciferase. <i>Mikrochimica Acta</i> , 2017, 184, 1595-1601.	5.0	15
139	Direct determination of etofenprox using surface plasmon resonance. <i>Analytica Chimica Acta</i> , 1998, 363, 229-233.	5.4	14
140	Electrochemical Detection of Vascular Endothelial Growth Factor by an Aptamer-Based Bound/Free Separation System. <i>Electrochemistry</i> , 2012, 80, 348-352.	1.4	14
141	Anti-Idiotypic DNA Aptamer Affinity Purification—High-Temperature Reversed-Phase Liquid Chromatography: A Simple, Accurate, and Selective Bioanalysis of Bevacizumab. <i>Molecules</i> , 2019, 24, 857.	3.8	14
142	Monomeric G-Quadruplex-Based CpG Oligodeoxynucleotides as Potent Toll-Like Receptor 9 Agonists. <i>Biomacromolecules</i> , 2020, 21, 3644-3657.	5.4	14
143	Stopped-flow system with ozonizer for the estimation of low biochemical oxygen demand in environmental samples. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3092-3098.	10.1	13
144	DNA Aptamers that Bind to PQQGDH as an Electrochemical Labeling Tool. <i>Electroanalysis</i> , 2009, 21, 1303-1308.	2.9	13

#	ARTICLE	IF	CITATIONS
145	Zn finger-based direct detection system for PCR products of Salmonella spp. and the Influenza A virus. <i>Biotechnology Letters</i> , 2009, 31, 725-733.	2.2	13
146	Ethanol Detection at the Parts per Billion Level with Single-stranded DNA-Modified Graphene Field-Effect Transistors. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900376.	1.5	13
147	Development of a POCT type insulin sensor employing anti-insulin single chain variable fragment based on faradaic electrochemical impedance spectroscopy under single frequency measurement. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113901.	10.1	13
148	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. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114027.	10.1	13
149	Rapid and homogeneous electrochemical detection by fabricating a high affinity bispecific antibody-enzyme complex using two Catcher/Tag systems. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112885.	10.1	12
150	Development of glycosylated peptide enzyme sensor based flow injection analysis system for haemoglobin A1c monitoring using quasi-direct electron transfer type engineered fructosyl peptide oxidase. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112984.	10.1	12
151	Photo-induced activation of cytochrome P450/reductase fusion enzyme coupled with spinach chloroplasts. <i>Biotechnology Letters</i> , 1996, 10, 717.	0.5	11
152	Continuous Photoreduction of Methyl Viologen Using Disubstituted Terthiophenes and EDTA in Aqueous Solution. <i>Photochemistry and Photobiology</i> , 1997, 66, 180-184.	2.5	11
153	Biosensors for Environmental Monitoring. <i>Annals of the New York Academy of Sciences</i> , 1998, 864, 23-36.	3.8	11
154	PCR-Based Ribosomal DNA Detection Technique for Microalga (<i>Heterosigma carterae</i>) Causing Red Tide and Its Application to a Biosensor Using Labeled Probe. <i>Marine Biotechnology</i> , 2003, 5, 417-423.	2.4	11
155	Selection and characterization of DNA aptamers against VEGF165 with aptamer blotting method and its application. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 399-400.	0.3	11
156	Analysis of the unbinding force between telomestatin derivatives and human telomeric G-quadruplex by atomic force microscopy. <i>Chemical Communications</i> , 2011, 47, 7485.	4.1	11
157	Automatic polymerase chain reaction product detection system for food safety monitoring using zinc finger protein fused to luciferase. <i>Analytica Chimica Acta</i> , 2013, 801, 78-83.	5.4	11
158	Electrochemical Biosensors Using Aptamers for Theranostics. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 183-202.	1.1	11
159	Detection of Histone Modification by Chromatin Immunoprecipitation Combined Zinc Finger Luciferase-Based Bioluminescence Resonance Energy Transfer Assay. <i>Analytical Chemistry</i> , 2013, 85, 6485-6490.	6.5	11
160	DNA aptamers against the Cry j 2 allergen of Japanese cedar pollen for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2015, 63, 159-165.	10.1	11
161	Identification of G-quadruplex structures that possess transcriptional regulating functions in the Dele and Cdc6 CpG islands. <i>BMC Molecular Biology</i> , 2017, 18, 17.	3.0	11
162	Improving the induction fold of riboregulators for cyanobacteria. <i>RNA Biology</i> , 2018, 15, 353-358.	3.1	11

#	ARTICLE	IF	CITATIONS
163	Application of a Glucose Dehydrogenase-Fused with Zinc Finger Protein to Label DNA Aptamers for the Electrochemical Detection of VEGF. <i>Sensors</i> , 2020, 20, 3878.	3.8	11
164	Rapid Detection of Complementary-and Mismatched DNA Sequences Using Fluorescence Polarization. <i>Analytical Letters</i> , 1996, 29, 1741-1749.	1.8	10
165	Investigation of the potential active site of a cyanide dihydratase using site-directed mutagenesis. <i>BBA - Proteins and Proteomics</i> , 1998, 1382, 1-4.	2.1	10
166	Quantitative analysis of polymerase chain reaction using anisotropy ratio and relative hydrodynamic volume of fluorescence polarization method. <i>Nucleic Acids Research</i> , 1998, 26, 3614-3615.	14.5	10
167	Electrochemical detection of pathogenic bacteria by using a glucose dehydrogenase fused zinc finger protein. <i>Analytical Methods</i> , 2014, 6, 4991-4994.	2.7	10
168	Esterification of PQQ Enhances Blood-Brain Barrier Permeability and Inhibitory Activity against Amyloidogenic Protein Fibril Formation. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2898-2903.	3.5	10
169	A Green Light-Regulated T7 RNA Polymerase Gene Expression System for Cyanobacteria. <i>Marine Biotechnology</i> , 2021, 23, 31-38.	2.4	10
170	Rapid, convenient, and highly sensitive detection of human hemoglobin in serum using a high-affinity bivalent antibody-enzyme complex. <i>Talanta</i> , 2021, 234, 122638.	5.5	10
171	Reagentless Phosphate Ion Sensor System for Environmental Monitoring. <i>Electrochemistry</i> , 1998, 66, 579-583.	0.3	10
172	Light-induced production of isobutanol and 3-methyl-1-butanol by metabolically engineered cyanobacteria. <i>Microbial Cell Factories</i> , 2022, 21, 7.	4.0	10
173	Photogeneration of NADPH by oligothiophenes coupled with ferredoxin-NADP reductase. <i>Journal of Biotechnology</i> , 1998, 59, 213-220.	3.8	9
174	Exploration of structural features of monomeric helical peptides designed with a genetic algorithm. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 53, 193-200.	2.6	9
175	Aptameric sensors based on structural change for diagnosis. <i>Faraday Discussions</i> , 2011, 149, 93-106.	3.2	9
176	Highly sensitive trilayer piezoelectric odor sensor. <i>Analytica Chimica Acta</i> , 1999, 387, 39-45.	5.4	8
177	Development of a fluorometric sensor for the measurement of phycobilin pigment and application to freshwater phytoplankton. <i>Field Analytical Chemistry and Technology</i> , 2000, 4, 53-61.	0.8	8
178	A fluorescent nitrate sensing system using a reaction cartridge and titanium trichloride. <i>Talanta</i> , 2001, 54, 903-911.	5.5	8
179	Improved substrate specificity of water-soluble pyrroloquinoline quinone glucose dehydrogenase by a peptide ligand. <i>Biotechnology Letters</i> , 2003, 25, 301-305.	2.2	8
180	Amperometric Glucose Sensor Using Thermostable Co-Factor Binding Glucose Dehydrogenase. <i>IEEE Transactions on Sensors and Micromachines</i> , 2003, 123, 185-189.	0.1	8

#	ARTICLE	IF	CITATIONS
181	Development of a Reactor Type Bio-sensor for Trichloroethylene. <i>Analytical Letters</i> , 2003, 36, 539-547.	1.8	8
182	G-quadruplex-forming aptamer enhances the peroxidase activity of myoglobin against luminol. <i>Nucleic Acids Research</i> , 2021, 49, 6069-6081.	14.5	8
183	Stabilization of VEGF i-motif structure by CpG methylation. <i>Biochemical and Biophysical Research Communications</i> , 2022, 594, 88-92.	2.1	8
184	Micromachining Technology and Biosensors. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 101-108.	3.8	7
185	Chemiluminescence Flow-Injection System for Rapid Detection of Red Tide Phytoplankton. <i>Analytical Letters</i> , 1998, 31, 2279-2288.	1.8	7
186	Preparation of a whole genome phage library using fragmented Escherichia coli genome and its characterization of protein binding properties by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1201-1207.	10.1	7
187	Two-Dimensional Electrophoresis-Based Selection of Aptamers Against an Unidentified Protein in a Tissue Sample. <i>Analytical Letters</i> , 2013, 46, 2954-2963.	1.8	7
188	Identification of RNA Oligonucleotides Binding to Several Proteins from Potential G-Quadruplex Forming Regions in Transcribed Pre-mRNA. <i>Molecules</i> , 2015, 20, 20832-20840.	3.8	7
189	Riboregulator elements as tools to engineer gene expression in cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7717-7723.	3.6	7
190	Generation of C5-desoxy analogs of tetrahydroisoquinoline alkaloids exhibiting potent DNA alkylating ability. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1807-1811.	2.2	7
191	Artificial complementary chromatic acclimation gene expression system in Escherichia coli. <i>Microbial Cell Factories</i> , 2021, 20, 128.	4.0	7
192	Continuous electrochemical monitoring of L-glutamine using redox-probe-modified L-glutamine-binding protein based on intermittent pulse amperometry. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130554.	7.8	7
193	Transient potentiometry based d-serine sensor using engineered d-amino acid oxidase showing quasi-direct electron transfer property. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113927.	10.1	7
194	An Amine-Reactive Phenazine Ethosulfate (arPES)â€”A Novel Redox Probe for Electrochemical Aptamer-Based Sensor. <i>Sensors</i> , 2022, 22, 1760.	3.8	7
195	Novel Measurement of Hypoxanthine in Fish Using Direct Measurement Probe and Chemiluminescence Flow Injection Analysis. <i>Journal of Food Science</i> , 1996, 61, 736-740.	3.1	6
196	Enzyme linking to DNA aptamers via a zinc finger as a bridge. <i>Chemical Communications</i> , 2015, 51, 11467-11469.	4.1	6
197	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. <i>Electrochemistry</i> , 2016, 84, 305-307.	1.4	6
198	DNA aptamers against FokI nuclease domain for genome editing applications. <i>Biosensors and Bioelectronics</i> , 2017, 93, 26-31.	10.1	6

#	ARTICLE	IF	CITATIONS
199	Development of aptamers against unpurified proteins. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2706-2716.	3.3	6
200	The Inhibition of Amyloid Fibrillation Using the Proteolytic Products of PQQ-Modified I \pm -Synuclein. <i>Open Biotechnology Journal</i> , 2009, 3, 40-45.	1.2	6
201	Purification of single stranded DNA from asymmetric PCR product using the SMART system. <i>Biotechnology Letters</i> , 1998, 12, 935-939.	0.5	5
202	Zinc finger protein-based detection system of PCR products for pathogen diagnosis. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 23-24.	0.3	5
203	Development of HGF α -binding aptamers with the combination of G4 promoter α -derived aptamer selection and in silico maturation. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2196-2203.	3.3	5
204	Employment of 1-Methoxy-5-Ethyl Phenazinium Ethyl Sulfate as a Stable Electron Mediator in Flavin Oxidoreductases-Based Sensors. <i>Sensors</i> , 2020, 20, 2825.	3.8	5
205	A self-powered glucose sensor based on BioCapacitor principle with micro-sized enzyme anode employing direct electron transfer type FADGDH. <i>JPhys Energy</i> , 2021, 3, 034009.	5.3	5
206	Synthesis of Fused Oligoribonucleotides with Trideoxyribonucleotide Containing Phosphorothioate to Stabilize Against Nuclease Activity. <i>Nucleosides & Nucleotides</i> , 1991, 10, 1377-1390.	0.5	4
207	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1677-1682.	2.2	4
208	Control of Aptamer Function Using Radiofrequency Magnetic Field. <i>Journal of Nucleic Acids</i> , 2011, 2011, 1-6.	1.2	4
209	In silico Maturation: Processing Sequences to Improve Biopolymer Functions Based on Genetic Algorithms. , 2014, , 271-288.		4
210	Model studies for isolation of G-quadruplex-forming DNA sequences through a pull-down strategy with macrocyclic polyoxazole. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1742-1746.	3.0	4
211	Detection of PCR products of <i>Escherichia coli</i> O157:H7 in human stool samples using surface plasmon resonance (SPR). <i>FEMS Immunology and Medical Microbiology</i> , 2000, 29, 283-288.	2.7	4
212	Electrochemical DNA Sensor Using Genetically Engineered Thermostable Pyrroloquinoline Quinone Glucose Dehydrogenase. <i>Electrochemistry</i> , 2003, 71, 490-495.	1.4	4
213	Development of A Dual Channel Chemiluminescence FIA System for Rapid Measurement of Fish Freshness. <i>Analytical Letters</i> , 1996, 29, 2499-2513.	1.8	3
214	Detection of <i>Escherichia coli</i> O157:H7 DNA using two fluorescence polarization methods. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 365, 452-457.	1.5	3
215	A Bioassay to Detect Contaminant-Induced Messenger RNA Using a Transcriptomic Approach: Detection of RT-PCR-Amplified Single-Stranded DNA Based on the SPR Sensor in Cyanobacteria. <i>Analytical Letters</i> , 2003, 36, 1475-1491.	1.8	3
216	Aggregation and Fibrillation Study of .ALPHA.-synuclein Under Applied Voltage. <i>Electrochemistry</i> , 2008, 76, 614-618.	1.4	3

#	ARTICLE	IF	CITATIONS
217	Non-label homogeneous protein detection based on laser interferometric photo-thermal displacement measurement using aptamers. <i>Biotechnology Journal</i> , 2011, 6, 101-106.	3.5	3
218	An Optical Biosensing System Based on Interference-Enhanced Reflection with Aptameric Enzyme Subunits of Thrombin. <i>Analytical Letters</i> , 2013, 46, 242-249.	1.8	3
219	Development of an automated direct blotting electrophoresis system for bioanalytical applications. <i>Analytical Methods</i> , 2015, 7, 4881-4884.	2.7	3
220	A polymerase chain reaction-based ribosomal DNA detection technique using a surface plasmon resonance detector for a red tide causing microalga, <i>Alexandrium affine</i> . <i>Phycological Research</i> , 2003, 51, 118-125.	1.6	3
221	Enhancement of the Immunostimulatory Effect of Phosphodiester CpG Oligodeoxynucleotides by an Antiparallel Guanine-Quadruplex Structural Scaffold. <i>Biomolecules</i> , 2021, 11, 1617.	4.0	3
222	In Vitro Continuous 3 Months Operation of Direct Electron Transfer Type Open Circuit Potential Based Glucose Sensor: Heralding the Next CGM Sensor. <i>Journal of Diabetes Science and Technology</i> , 2022, 16, 1107-1113.	2.2	3
223	Development of a Lateral Flow Assay for Bevacizumab Using an Anti-Idiotypic DNA Aptamer as a Capture Molecule. <i>Chromatography</i> , 2022, 43, 73-77.	1.7	3
224	Effects of G-Quadruplex Ligands on the Topology, Stability, and Immunostimulatory Properties of G-Quadruplex-Based CpG Oligodeoxynucleotides. <i>ACS Chemical Biology</i> , 2022, 17, 1703-1713.	3.4	3
225	Novel strategy for DNA aptamers inhibiting enzymatic activity using algorithm mimicking evolution. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 205-206.	0.3	2
226	Analysis of DNA and Zinc finger interactions using mechanical force spectroscopy. <i>Nanobiotechnology</i> , 2006, 2, 87-93.	1.2	2
227	Selection of DNA aptamers that inhibit enzymatic activity of PQQGDH and its application. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 403-404.	0.3	2
228	Constructing an improved pyrroloquinoline quinone glucose dehydrogenase binding aptamer for enzyme labeling. <i>Biotechnology Letters</i> , 2010, 32, 1293-1298.	2.2	2
229	Electrochemical SNP Detection Using Glucose Dehydrogenase. <i>Electrochemistry</i> , 2012, 80, 345-347.	1.4	2
230	Screening of Peptide Ligands for Pyrroloquinoline Quinone Glucose Dehydrogenase Using Antagonistic Template-Based Biopanning. <i>International Journal of Molecular Sciences</i> , 2013, 14, 23244-23256.	4.1	2
231	Fluorescent Ligand-Mediated Screening of G-Quadruplex Structures Using a DNA Microarray. <i>Angewandte Chemie</i> , 2013, 125, 12274-12277.	2.0	2
232	Synthesis of a hemin-containing copolymer as a novel immunostimulator that induces IFN-gamma production. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4461-4472.	6.7	2
233	Cytotoxic A β Protofilaments Are Generated in the Process of A β Fibril Disaggregation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12780.	4.1	2
234	CpG Methylation Altered the Stability and Structure of the i-Motifs Located in the CpG Islands. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6467.	4.1	2

#	ARTICLE	IF	CITATIONS
235	Screening of DNA aptamers inhibiting Taq DNA polymerase using algorithm mimicking evolution. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 309-310.	0.3	1
236	Biosensors Using the Aptameric Enzyme Subunit: The Use of Aptamers in the Allosteric Control of Enzymes. , 0, , 129-138.		1
237	2r1/4Žā,ċāf—ā,;āfžāf1/4ā,'ç”ā,āŸæ©Ÿèf1/2æ€šé»æŸµ. <i>Electrochemistry</i> , 2015, 83, 1085-1090.	1.4	1
238	Engineering of Riboregulators for Gene Regulation as a Tool for Synthetic Biology. , 2020, , 173-186.		1
239	Identification of G-quadruplex sequences in severe acute respiratory syndrome coronavirus 2. <i>Translational and Regulatory Sciences</i> , 2021, 3, 89-92.	0.2	1
240	Detection of CpG Methylation in G-Quadruplex Forming Sequences Using G-Quadruplex Ligands. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13159.	4.1	1
241	Construction of target molecule sensing system using aptameric enzyme subunit based on PQQGDH activity. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 401-402.	0.3	0
242	Specific detection of PCR product from <i>Legionella pneumophila</i> strain Philadelphia1 using zinc finger protein Sp2. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 285-286.	0.3	0
243	3P-100 Analysis of binding of telomestatin derivative to G-quadruplex DNA by using AFM(Nucleic Tj ETQq1 1 0.784314 rgBT /Overloc Seibutsu Butsuri, 2009, 49, S168.	0.1	0
244	Aptamer Sensors Combined with Enzymes for Highly Sensitive Detection. , 0, , .		0
245	Inhibition of an Allergenâ€“Antibody Reaction Related to Japanese Cedar Pollinosis Using DNA Aptamers Against the Cry j 2 Allergen. <i>Nucleic Acid Therapeutics</i> , 2015, 25, 311-316.	3.6	0
246	Selection and Characterization of DNA Aptamers Against FokI Nuclease Domain. <i>Methods in Molecular Biology</i> , 2018, 1867, 165-174.	0.9	0
247	Influence of DNA Sequences on Gas Responses Using DNA-modified Graphene Devices. , 2019, , .		0
248	Aptameric sensors utilizing its property as DNA. , 2019, , 117-131.		0
249	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. <i>Data in Brief</i> , 2021, 36, 107028.	1.0	0
250	é...µç'é»æŸµāāžœā,'ç”ā,āŸDNAāfā,āf—āfªāf€ā,ā,1/4āf1/4ā,āfšāf3ā®é«~æ,,Ÿā° æœā†°. <i>Electrochemistry</i> , 2004, 72, 594-597.		
251	The Continuous 3 Month Operation of Open Circuit Potential Based Glucose Sensor Employing Direct Electron Transfer Type Fad Dependent Glucose Dehydrogenase. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2779-2779.	0.0	0