

Wataru Yoshida

List of Publications by Year in descending order

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73
papers

1,408
citations

331670

21
h-index

377865

34
g-index

75
all docs

75
docs citations

75
times ranked

1778
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Photonic boolean logic gates based on DNA aptamers. <i>Chemical Communications</i> , 2007, , 195-197.	4.1	76
4	Aptameric Enzyme Subunit for Biosensing Based on Enzymatic Activity Measurement. <i>Analytical Chemistry</i> , 2006, 78, 3296-3303.	6.5	72
5	A green-light inducible lytic system for cyanobacterial cells. <i>Biotechnology for Biofuels</i> , 2014, 7, 56.	6.2	59
6	Methylation screening of reciprocal genome-wide UPDs identifies novel human-specific imprinted genes. <i>Human Molecular Genetics</i> , 2011, 20, 3188-3197.	2.9	55
7	Methylation dynamics of IG-DMR and Gtl2-DMR during murine embryonic and placental development. <i>Genomics</i> , 2011, 98, 120-127.	2.9	52
8	Fluorescent Ligand-Mediated Screening of G-Quadruplex Structures Using a DNA Microarray. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12052-12055.	13.8	45
9	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
10	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
11	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
12	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 245-252.	2.1	39
13	Design of riboregulators for control of cyanobacterial (<i>Synechocystis</i>) protein expression. <i>Biotechnology Letters</i> , 2014, 36, 287-294.	2.2	38
14	Detection of DNA Methylation of G-Quadruplex and i-Motif-Forming Sequences by Measuring the Initial Elongation Efficiency of Polymerase Chain Reaction. <i>Analytical Chemistry</i> , 2016, 88, 7101-7107.	6.5	30
15	Aptamer Selection Based on G4-Forming Promoter Region. <i>PLoS ONE</i> , 2013, 8, e65497.	2.5	29
16	CpG Methylation Changes G-Quadruplex Structures Derived from Gene Promoters and Interaction with VEGF and SP1. <i>Molecules</i> , 2018, 23, 944.	3.8	29
17	Identification of G-quadruplex clusters by high-throughput sequencing of whole-genome amplified products with a G-quadruplex ligand. <i>Scientific Reports</i> , 2018, 8, 3116.	3.3	28
18	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

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19	An Aptamer-Based Bound/Free Separation System for Protein Detection. <i>Electroanalysis</i> , 2009, 21, 1297-1302.	2.9	24
20	Global DNA Methylation Detection System Using MBD-Fused Luciferase Based on Bioluminescence Resonance Energy Transfer Assay. <i>Analytical Chemistry</i> , 2016, 88, 9264-9268.	6.5	24
21	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. <i>Biotechnology Letters</i> , 2008, 30, 421-425.	2.2	22
22	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
23	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
24	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
25	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
26	Aptameric enzyme subunit for homogeneous DNA sensing. <i>Biotechnology Letters</i> , 2008, 30, 243-252.	2.2	18
27	Partial Peptide of β -Synuclein Modified with Small-Molecule Inhibitors Specifically Inhibits Amyloid Fibrillation of β -Synuclein. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2590-2600.	4.1	18
28	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
29	Emerging techniques employed in aptamer-based diagnostic tests. <i>Expert Review of Molecular Diagnostics</i> , 2014, 14, 143-151.	3.1	16
30	Destabilisation of the c-kit1 G-quadruplex structure by N6-methyladenosine modification. <i>Biochemical and Biophysical Research Communications</i> , 2020, 524, 472-476.	2.1	16
31	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
32	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
33	Stabilization of G-quadruplex structure on vascular endothelial growth factor gene promoter depends on CpG methylation site and cation type. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1933-1937.	2.4	13
34	Global DNA Methylation Level Monitoring by methyl-CpG Binding Domain-Fused Luciferase. <i>Analytical Letters</i> , 2019, 52, 754-760.	1.8	13
35	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
36	Electrochemical Biosensors Using Aptamers for Theranostics. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 183-202.	1.1	11

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37	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
38	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
39	A quantitative homogeneous assay for global DNA methylation levels using CpG-binding domain- and methyl-CpG-binding domain-fused luciferase. <i>Analytica Chimica Acta</i> , 2017, 990, 168-173.	5.4	11
40	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
41	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
42	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
43	Aptameric sensors based on structural change for diagnosis. <i>Faraday Discussions</i> , 2011, 149, 93-106.	3.2	9
44	Multicolor bioluminescence resonance energy transfer assay for quantification of global DNA methylation. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4765-4773.	3.7	9
45	Stabilization of VEGF i-motif structure by CpG methylation. <i>Biochemical and Biophysical Research Communications</i> , 2022, 594, 88-92.	2.1	8
46	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
47	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
48	Direct Detection of Hemi-methylated DNA by SRA-fused Luciferase Based on Bioluminescence Resonance Energy Transfer. <i>Analytical Letters</i> , 2019, 52, 1258-1267.	1.8	7
49	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. <i>Electrochemistry</i> , 2016, 84, 305-307.	1.4	6
50	Effects of CpG methylation on the thermal stability of c-kit2, c-kit*, and c-kit1 G-quadruplex structures. <i>BBA Advances</i> , 2021, 1, 100007.	1.6	6
51	An Insulator Element Located at the Cyclin B1 Interacting Protein 1 Gene Locus Is Highly Conserved among Mammalian Species. <i>PLoS ONE</i> , 2015, 10, e0131204.	2.5	6
52	Aptameric enzyme subunit for homogeneous protein sensing. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 99-100.	0.3	5
53	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
54	Thermal Stability Changes in Telomeric G-Quadruplex Structures Due to N6-Methyladenine Modification. <i>Epigenomes</i> , 2021, 5, 5.	1.8	5

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55	Destabilization of DNA and RNA G-quadruplex structures formed by GGA repeat due to N6-methyladenine modification. <i>Biochemical and Biophysical Research Communications</i> , 2022, 597, 134-139.	2.1	5
56	Quantification of Global DNA Hydroxymethylation Level Using UHRF2 SRA-Luciferase Based on Bioluminescence Resonance Energy Transfer. <i>Analytical Chemistry</i> , 2022, 94, 8618-8624.	6.5	5
57	In silico Maturation: Processing Sequences to Improve Biopolymer Functions Based on Genetic Algorithms. , 2014, , 271-288.		4
58	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
59	Quantification of global DNA methylation level using 5-methylcytosine dioxygenase. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5299-5305.	3.7	4
60	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
61	G-quadruplex-forming GGA repeat region functions as a negative regulator of the Ccnb1p1 enhancer. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1697-1702.	1.3	3
62	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
63	Fluorescent-Ligand-Mediated Screening of G-Quadruplex Structures Using a DNA Microarray. <i>Angewandte Chemie</i> , 2013, 125, 12274-12277.	2.0	2
64	DNA Detection Technology Using Zinc Finger Protein. <i>Journal of Microbial & Biochemical Technology</i> , 2015, 07, .	0.2	2
65	Development of a novel sensing probe using DNA aptamer inhibiting enzymatic activity. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 83-84.	0.3	1
66	Biosensors Using the Aptameric Enzyme Subunit: The Use of Aptamers in the Allosteric Control of Enzymes. , 0, , 129-138.		1
67	Bioluminescence Resonance Energy Transfer for Global DNA Methylation Quantification. <i>Methods in Molecular Biology</i> , 2022, , 267-279.	0.9	1
68	Development of a novel DNA sensing system using DNA aptamer inhibited enzymatic activity 1. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 231-232.	0.3	0
69	Development of a novel DNA sensing system using DNA aptamer that inhibits enzymatic activity 2. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 309-310.	0.3	0
70	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
71	Inhibition of an Allergen-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
72	Global DNA Methylation Analysis Using Methylcytosine Dioxygenase. <i>Springer Protocols</i> , 2022, , 93-102.	0.3	0

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73	Quantitative detection of CpG methylation level on G-quadruplex and i-motif-forming DNA by recombinase polymerase amplification. Analytical and Bioanalytical Chemistry, 0, , .	3.7	0