Wataru Yoshida

List of Publications by Citations

72 papers	1,140 citations	19 h-index	31 g-index
75 ext. papers	1,301 ext. citations	4.9 avg, IF	4.31 L-index

#	Paper	IF	Citations
72	Selection of DNA aptamers against insulin and construction of an aptameric enzyme subunit for insulin sensing. *Biosensors and Bioelectronics*, **2009**, 24, 1116-20	11.8	97
71	Affinity improvement of a VEGF aptamer by in silico maturation for a sensitive VEGF-detection system. *Analytical Chemistry*, **2013**, 85, 1132-7	7.8	78
70	Photonic Boolean logic gates based on DNA aptamers. *Chemical Communications*, **2007**, 195-7	5.8	68
69	Aptameric enzyme subunit for biosensing based on enzymatic activity measurement. *Analytical Chemistry*, **2006**, 78, 3296-303	7.8	67
68	A green-light inducible lytic system for cyanobacterial cells. *Biotechnology for Biofuels*, **2014**, 7, 56	7.8	52
67	Methylation screening of reciprocal genome-wide UPDs identifies novel human-specific imprinted genes. *Human Molecular Genetics*, **2011**, 20, 3188-97	5.6	46
66	Methylation dynamics of IG-DMR and Gtl2-DMR during murine embryonic and placental development. *Genomics*, **2011**, 98, 120-7	4.3	41
65	Fluorescent-ligand-mediated screening of G-quadruplex structures using a DNA microarray. *Angewandte Chemie - International Edition*, **2013**, 52, 12052-5	16.4	37
64	Development of a method to measure DNA methylation levels by using methyl CpG-binding protein and luciferase-fused zinc finger protein. *Analytical Chemistry*, **2012**, 84, 8259-64	7.8	36
63	Homogeneous DNA sensing using enzyme-inhibiting DNA aptamers. *Biochemical and Biophysical Research Communications*, **2006**, 348, 245-52	3.4	36
62	Design of riboregulators for control of cyanobacterial (Synechocystis) protein expression. *Biotechnology Letters*, **2014**, 36, 287-94	3	34
61	In silico maturation of binding-specificity of DNA aptamers against Proteus mirabilis. *Biotechnology and Bioengineering*, **2013**, 110, 2573-80	4.9	32
60	Improving the gene-regulation ability of small RNAs by scaffold engineering in Escherichia coli. *ACS Synthetic Biology*, **2014**, 3, 152-62	5.7	31
59	Aptamer selection based on G4-forming promoter region. *PLoS ONE*, **2013**, 8, e65497	3.7	25
58	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, 7101-7	7.8	23
57	Identification of G-quadruplex clusters by high-throughput sequencing of whole-genome amplified products with a G-quadruplex ligand. *Scientific Reports*, **2018**, 8, 3116	4.9	22
56	Label-free homogeneous detection of immunoglobulin E by an aptameric enzyme subunit. *Biotechnology Letters*, **2008**, 30, 421-5	3	21

55	An Aptamer-Based Bound/Free Separation System for Protein Detection. *Electroanalysis*, **2009**, 21, 1297-1302	3	20
54	Global DNA Methylation Detection System Using MBD-Fused Luciferase Based on Bioluminescence Resonance Energy Transfer Assay. *Analytical Chemistry*, **2016**, 88, 9264-8	7.8	19
53	Selection of DNA aptamers against uropathogenic Escherichia coli NSM59 by quantitative PCR controlled Cell-SELEX. *Journal of Microbiological Methods*, **2014**, 104, 94-100	2.8	19
52	Improvement of the VEGF binding ability of DNA aptamers through in silico maturation and multimerization strategy. *Journal of Biotechnology*, **2015**, 212, 99-105	3.7	18
51	CpG Methylation Changes G-Quadruplex Structures Derived from Gene Promoters and Interaction with VEGF and SP1. *Molecules*, **2018**, 23,	4.8	18
50	Simultaneous improvement of specificity and affinity of aptamers against Streptococcus mutans by in silico maturation for biosensor development. *Biotechnology and Bioengineering*, **2014**, 111, 454-61	4.9	18
49	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	11.8	16
48	Aptameric enzyme subunit for homogeneous DNA sensing. *Biotechnology Letters*, **2008**, 30, 243-52	3	16
47	Structural regulation by a G-quadruplex ligand increases binding abilities of G-quadruplex-forming aptamers. *Chemical Communications*, **2016**, 52, 12646-12649	5.8	15
46	Development of a novel biosensing system based on the structural change of a polymerized guanine-quadruplex DNA nanostructure. *Biosensors and Bioelectronics*, **2011**, 26, 4837-41	11.8	14
45	Analysis of the evolution of the thrombin-inhibiting DNA aptamers using a genetic algorithm. *Biotechnology Letters*, **2006**, 28, 1933-7	3	14
44	Partial peptide of □synuclein modified with small-molecule inhibitors specifically inhibits amyloid fibrillation of □synuclein. *International Journal of Molecular Sciences*, **2013**, 14, 2590-600	6.3	13
43	Emerging techniques employed in aptamer-based diagnostic tests. *Expert Review of Molecular Diagnostics*, **2014**, 14, 143-51	3.8	13
42	Destabilisation of the c-kit1 G-quadruplex structure by N-methyladenosine modification. *Biochemical and Biophysical Research Communications*, **2020**, 524, 472-476	3.4	11
41	Rapid cytotoxicity screening platform for amyloid inhibitors using a membrane-potential sensitive fluorescent probe. *Analytical Chemistry*, **2013**, 85, 185-92	7.8	11
40	Stabilization of G-quadruplex structure on vascular endothelial growth factor gene promoter depends on CpG methylation site and cation type. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 1933-1937	4	11
39	DNA aptamers against the Cry j 2 allergen of Japanese cedar pollen for biosensing applications. *Biosensors and Bioelectronics*, **2015**, 63, 159-165	11.8	10
38	Identification of G-quadruplex structures that possess transcriptional regulating functions in the Dele and Cdc6 CpG islands. *BMC Molecular Biology*, **2017**, 18, 17	4.5	10

37	Automatic polymerase chain reaction product detection system for food safety monitoring using zinc finger protein fused to luciferase. *Analytica Chimica Acta*, **2013**, 801, 78-83	6.6	9
36	Electrochemical biosensors using aptamers for theranostics. *Advances in Biochemical Engineering/Biotechnology*, **2014**, 140, 183-202	1.7	9
35	Detection of histone modification by chromatin immunoprecipitation combined zinc finger luciferase-based bioluminescence resonance energy transfer assay. *Analytical Chemistry*, **2013**, 85, 6485-90	7.8	9
34	Global DNA Methylation Level Monitoring by methyl-CpG Binding Domain-Fused Luciferase. *Analytical Letters*, **2019**, 52, 754-760	2.2	9
33	Electrochemical detection of pathogenic bacteria by using a glucose dehydrogenase fused zinc finger protein. *Analytical Methods*, **2014**, 6, 4991-4994	3.2	8
32	A quantitative homogeneous assay for global DNA methylation levels using CpG-binding domain- and methyl-CpG-binding domain-fused luciferase. *Analytica Chimica Acta*, **2017**, 990, 168-173	6.6	7
31	Aptameric sensors based on structural change for diagnosis. *Faraday Discussions*, **2011**, 149, 93-105; discussion 137-57	3.6	7
30	Two-Dimensional Electrophoresis-Based Selection of Aptamers Against an Unidentified Protein in a Tissue Sample. *Analytical Letters*, **2013**, 46, 2954-2963	2.2	6
29	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. *Electrochemistry*, **2016**, 84, 305-307	1.2	6
28	Development of HGF-binding aptamers with the combination of G4 promoter-derived aptamer selection and in silico maturation. *Biotechnology and Bioengineering*, **2017**, 114, 2196-2203	4.9	5
27	Multicolor bioluminescence resonance energy transfer assay for quantification of global DNA methylation. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4765-4773	4.4	5
26	Esterification of PQQ Enhances Blood-Brain Barrier Permeability and Inhibitory Activity against Amyloidogenic Protein Fibril Formation. *ACS Chemical Neuroscience*, **2018**, 9, 2898-2903	5.7	5
25	Identification of RNA Oligonucleotides Binding to Several Proteins from Potential G-Quadruplex Forming Regions in Transcribed Pre-mRNA. *Molecules*, **2015**, 20, 20832-40	4.8	5
24	Aptameric enzyme subunit for homogeneous protein sensing. *Nucleic Acids Symposium Series*, **2007**, 99-100		5
23	An insulator element located at the cyclin B1 interacting protein 1 gene locus is highly conserved among mammalian species. *PLoS ONE*, **2015**, 10, e0131204	3.7	5
22	Direct Detection of Hemi-methylated DNA by SRA-fused Luciferase Based on Bioluminescence Resonance Energy Transfer. *Analytical Letters*, **2019**, 52, 1258-1267	2.2	4
21	G-quadruplex-forming GGA repeat region functions as a negative regulator of the enhancer. *Bioscience, Biotechnology and Biochemistry*, **2019**, 83, 1697-1702	2.1	3
20	An Optical Biosensing System Based on Interference-Enhanced Reflection with Aptameric Enzyme Subunits of Thrombin. *Analytical Letters*, **2013**, 46, 242-249	2.2	3

19	Model studies for isolation of G-quadruplex-forming DNA sequences through a pull-down strategy with macrocyclic polyoxazole. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 1742-1746	3.4	3
18	DNA Detection Technology Using Zinc Finger Protein. *Journal of Microbial & Biochemical Technology* , **2015**, 07,		2
17	Screening of peptide ligands for pyrroloquinoline quinone glucose dehydrogenase using antagonistic template-based biopanning. *International Journal of Molecular Sciences*, **2013**, 14, 23244-56	6.3	2
16	Fluorescent-Ligand-Mediated Screening of G-Quadruplex Structures Using a DNA Microarray. *Angewandte Chemie*, **2013**, 125, 12274-12277	3.6	2
15	Stabilization of VEGF i-motif structure by CpG methylation.. *Biochemical and Biophysical Research Communications*, **2022**, 594, 88-92	3.4	2
14	Thermal Stability Changes in Telomeric G-Quadruplex Structures Due to -Methyladenine Modification.. *Epigenomes*, **2021**, 5,	2.3	2
13	Effects of CpG methylation on the thermal stability of c-kit2, c-kit*, and c-kit1 G-quadruplex structures. *BBA Advances*, **2021**, 1, 100007		2
12	Quantification of global DNA methylation level using 5-methylcytosine dioxygenase. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 5299-5305	4.4	1
11	Destabilization of DNA and RNA G-quadruplex structures formed by GGA repeat due to N-methyladenine modification.. *Biochemical and Biophysical Research Communications*, **2022**, 597, 134-139	3.4	1
10	Development of a novel sensing probe using DNA aptamer inhibiting enzymatic activity. *Nucleic Acids Symposium Series*, **2005**, 83-4		0
9	In silico Maturation: Processing Sequences to Improve Biopolymer Functions Based on Genetic Algorithms **2014**, 271-288		
8	Inhibition of an Allergen-Antibody Reaction Related to Japanese Cedar Pollinosis Using DNA Aptamers Against the Cry j 2 Allergen. *Nucleic Acid Therapeutics*, **2015**, 25, 311-6	4.8	
7	Innentitelbild: Fluorescent-Ligand-Mediated Screening of G-Quadruplex Structures Using a DNA Microarray (Angew. Chem. 46/2013). *Angewandte Chemie*, **2013**, 125, 12162-12162	3.6	
6	Biosensors Using the Aptameric Enzyme Subunit: The Use of Aptamers in the Allosteric Control of Enzymes		129-138
5	Construction of target molecule sensing system using aptameric enzyme subunit based on PQQGDH activity. *Nucleic Acids Symposium Series*, **2007**, 401-2		
4	Development of a novel DNA sensing system using DNA aptamer inhibited enzymatic activity 1. *Nucleic Acids Symposium Series*, **2004**, 231-2		
3	Development of a novel DNA sensing system using DNA aptamer that inhibits enzymatic activity 2. *Nucleic Acids Symposium Series*, **2004**, 309-10		
2	Global DNA Methylation Analysis Using Methylcytosine Dioxygenase. *Springer Protocols*, **2022**, 93-102	0.3	

1 Bioluminescence Resonance Energy Transfer for Global DNA Methylation Quantification. *Methods in Molecular Biology*, **2022**, 267-279 1.4