

# Atsushi Ogawa

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,203  
citations

471509

17  
h-index

395702

33  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eukaryotic artificial ON-riboswitches that respond efficiently to mid-sized short peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 71, 128839.	2.2	3
2	Molecular detection using aptamer-modified gold nanoparticles with an immobilized DNA brush for the prevention of non-specific aggregation. <i>RSC Advances</i> , 2021, 11, 11984-11991.	3.6	10
3	Suppressor tRNA-based Biosensors for Detecting Analytes. <i>Analytical Sciences</i> , 2021, 37, 407-414.	1.6	2
4	A Detailed Protocol for Preparing Millimeter-sized Supergiant Liposomes that Permit Efficient Eukaryotic Cell-free Translation in the Interior. <i>Bio-protocol</i> , 2021, 11, e4054.	0.4	1
5	Coupled in vitro transcription/translation based on wheat germ extract for efficient expression from PCR-generated templates in short-time batch reactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 52, 128412.	2.2	1
6	<i>In Vitro</i> Selection of RNA Aptamers Binding to Nanosized DNA for Constructing Artificial Riboswitches. <i>ACS Synthetic Biology</i> , 2020, 9, 2648-2655.	3.8	8
7	Development of Human CBF1-Targeting Single-Stranded DNA Aptamers with Antiangiogenic Activity <i>In Vitro</i> . <i>Nucleic Acid Therapeutics</i> , 2020, 30, 365-378.	3.6	8
8	Preparation of a Millimeter-Sized Supergiant Liposome That Allows for Efficient, Eukaryotic Cell-Free Translation in the Interior by Spontaneous Emulsion Transfer. <i>ACS Synthetic Biology</i> , 2020, 9, 1608-1614.	3.8	7
9	In vitro selection of a 3' terminal short protector that stabilizes transcripts to improve the translation efficiency in a wheat germ extract. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 2141-2144.	2.2	5
10	Mutation of the start codon to enhance Cripavirus internal ribosome entry site-mediated translation in a wheat germ extract. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 126729.	2.2	2
11	Detection of Gold Nanoparticles Aggregation Using Light Scattering for Molecular Sensing. <i>Analytical Sciences</i> , 2019, 35, 685-690.	1.6	16
12	Modification of carbon metabolism in <i>Synechococcus elongatus</i> PCC 7942 by cyanophage-derived sigma factors for bioproduction improvement. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 256-264.	2.2	13
13	Canonical translation-modulating OFF-riboswitches with a single aptamer binding to a small molecule that function in a higher eukaryotic cell-free expression system. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2353-2357.	2.2	7
14	Rational Design of Artificial Riboswitches. , 2018, , 79-93.		2
15	Artificial OFF-Riboswitches That Downregulate Internal Ribosome Entry without Hybridization Switches in a Eukaryotic Cell-Free Translation System. <i>ACS Synthetic Biology</i> , 2017, 6, 1656-1662.	3.8	16
16	Ligand-responsive upregulation of 3' CITE-mediated translation in a wheat germ cell-free expression system. <i>Molecular BioSystems</i> , 2017, 13, 314-319.	2.9	13
17	Biofunction-assisted DNA detection through RNase H-enhanced 3' processing of a premature tRNA probe in a wheat germ extract. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3658-3661.	2.2	4
18	Rational optimization of amber suppressor tRNAs toward efficient incorporation of a non-natural amino acid into protein in a eukaryotic wheat germ extract. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2671-2678.	2.8	6

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19	Biofunction-assisted aptasensors based on ligand-dependent 3' processing of a suppressor tRNA in a wheat germ extract. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6681-6685.	2.8	6
20	Investigation of end processing and degradation of premature tRNAs and their application to stabilization of in vitro transcripts in wheat germ extract. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1008-1012.	2.8	6
21	Engineering of Ribosomal Shunt-Modulating Eukaryotic ON Riboswitches by Using a Cell-Free Translation System. <i>Methods in Enzymology</i> , 2015, 550, 109-128.	1.0	7
22	Thermodynamics-based Rational Design of DNA Block Copolymers for Quantitative Detection of Single-Nucleotide Polymorphisms by Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2014, 86, 11425-11433.	6.5	7
23	Identification of short untranslated regions that sufficiently enhance translation in high-quality wheat germ extract. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3724-3727.	2.2	13
24	Rational Design of Artificial ON-Riboswitches. <i>Methods in Molecular Biology</i> , 2014, 1111, 165-181.	0.9	10
25	Theophylline-Dependent Riboswitch as a Novel Genetic Tool for Strict Regulation of Protein Expression in <i>Cyanobacterium Synechococcus elongatus</i> PCC 7942. <i>Plant and Cell Physiology</i> , 2013, 54, 1724-1735.	3.1	124
26	Multiple-input and visible-output logic gates using signal-converting DNA machines and gold nanoparticle aggregation. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3272.	2.8	11
27	Dumbbell-Shaped DNA Analytes Amplified by Polymerase Chain Reaction for Robust Single-Nucleotide Polymorphism Genotyping by Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2013, 85, 5347-5352.	6.5	4
28	Ligand-Dependent Upregulation of Ribosomal Shunting. <i>ChemBioChem</i> , 2013, 14, 1539-1543.	2.6	19
29	A Concept for Selection of Codon-Suppressor tRNAs Based on Read-Through Ribosome Display in an <i>In Vitro</i> Compartmentalized Cell-Free Translation System. <i>Journal of Nucleic Acids</i> , 2012, 2012, 1-7.	1.2	7
30	Rational construction of eukaryotic OFF-riboswitches that downregulate internal ribosome entry site-mediated translation in response to their ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1639-1642.	2.2	25
31	Improvement of in vitro-transcribed amber suppressor tRNAs toward higher suppression efficiency in wheat germ extract. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8495.	2.8	11
32	Multiple Catalytic Sensing of Nucleic Acid Sequences by Utilising a DNA-RNA-DNA Chimeric Antisense Probe and RNase H with a Eukaryotic Cell-Free Translation System. <i>ChemBioChem</i> , 2011, 12, 881-885.	2.6	12
33	RNA aptazyme-tethered large gold nanoparticles for on-the-spot sensing of the aptazyme ligand. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 155-159.	2.2	12
34	Rational design of artificial riboswitches based on ligand-dependent modulation of internal ribosome entry in wheat germ extract and their applications as label-free biosensors. <i>Rna</i> , 2011, 17, 478-488.	3.5	86
35	Isothermal sensitive detection of microRNA using an autonomous DNA machine recycling output as input. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6056-6060.	2.2	13
36	Biofunction-Assisted Sensors Based on a New Method for Converting Aptazyme Activity into Reporter Protein Expression with High Efficiency in Wheat Germ Extract. <i>ChemBioChem</i> , 2009, 10, 2465-2468.	2.6	26

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37	Easy design of logic gates based on aptazymes and noncrosslinking gold nanoparticle aggregation. <i>Chemical Communications</i> , 2009, , 4666.	4.1	60
38	Detector-free and Multiple Sensing of Various Molecules Using Gold Nanoparticles and Aptazymes. <i>Chemistry Letters</i> , 2009, 38, 848-849.	1.3	11
39	An Artificial Aptazyme-Based Riboswitch and its Cascading System in <i>E. coli</i> . <i>ChemBioChem</i> , 2008, 9, 206-209.	2.6	98
40	A Novel Label-Free Biosensor Using an Aptazyme-Suppressor tRNA Conjugate and an Amber Mutated Reporter Gene. <i>ChemBioChem</i> , 2008, 9, 2204-2208.	2.6	25
41	Simple and rapid colorimetric detection of cofactors of aptazymes using noncrosslinking gold nanoparticle aggregation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 6517-6520.	2.2	26
42	Simple and Rapid Colorimetric Detection of Low-Weight Molecules Using Aptazymes in Combination with Noncrosslinking Gold Nanoparticle Aggregation. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 527-528.	0.3	1
43	Development of a New-type Riboswitch Using an Aptazyme and an anti-RBS Sequence. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 389-390.	0.3	3
44	In vitro selection of RNA aptamer against Escherichia coli release factor 1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 1216-1220.	2.2	34
45	Aptazyme-based riboswitches as label-free and detector-free sensors for cofactors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3156-3160.	2.2	47
46	Termination-Free Prokaryotic Protein Translation by Using Anticodon-Adjusted E. coli tRNA <sup>Ser</sup> as Unified Suppressors of the UAA/UGA/UAG Stop Codons. Read-Through Ribosome Display of Full-Length DHFR with Translated UTR as a Buried Spacer Arm. <i>ChemBioChem</i> , 2006, 7, 249-252.	2.6	8
47	In vitro selection of RNA aptamers for the Escherichia coli release factor 1. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 269-270.	0.3	1
48	In vitro read-through polysome/ribosome display of full-length protein ORF and its applications. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 267-268.	0.3	1
49	Aptamer selection for the inhibition of cell adhesion with fibronectin as target. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 4001-4004.	2.2	16
50	Theoretical Analysis of Lewis Basicity Based on Local Electron-Donating Ability. Origin of Basic Strength of Cyclic Amines. <i>Journal of Organic Chemistry</i> , 2004, 69, 7486-7494.	3.2	61
51	Orbital Interactions between a C <sub>60</sub> Molecule and Cu(111) Surface. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12672-12679.	2.6	10
52	Hole Trapping at N <sup>6</sup> -Cyclopropyldeoxyadenosine Suggests a Direct Contribution of Adenine Bases to Hole Transport through DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 10154-10155.	13.7	41
53	Lewis Acidity of Gallium Halides. <i>Inorganic Chemistry</i> , 2002, 41, 4888-4894.	4.0	24
54	[2+1] Cycloaddition reaction of bis(iodozincio)methane with 1,2-diketones: face-to-face complex of bis(iodozincio)methane and 1,2-diketones as a reaction intermediate. <i>Tetrahedron</i> , 2002, 58, 8255-8262.	1.9	28

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55	Reexamination of orbital interactions in Diels-Alder reactions. Tetrahedron Letters, 2002, 43, 2055-2057.	1.4	15
56	Suppression of DNA-Mediated Charge Transport by BamHI Binding. Chemistry and Biology, 2002, 9, 361-366.	6.0	34
57	Sulfur-Gold Orbital Interactions which Determine the Structure of Alkanethiolate/Au(111) Self-Assembled Monolayer Systems. Journal of Physical Chemistry B, 2002, 106, 12727-12736.	2.6	135