

# 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  | Sulfur~Gold Orbital Interactions which Determine the Structure of Alkanethiolate/Au(111) Self-Assembled Monolayer Systems. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12727-12736.                                     | 2.6  | 135       |
| 2  | 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       |
| 3  | An Artificial Aptazyme~Based Riboswitch and its Cascading System in <i>E. coli</i> . <i>ChemBioChem</i> , 2008, 9, 206-209.   | 2.6  | 98        |
| 4  | 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        |
| 5  | 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        |
| 6  | Easy design of logic gates based on aptazymes and noncrosslinking gold nanoparticle aggregation. <i>Chemical Communications</i> , 2009, , 4666.   | 4.1  | 60        |
| 7  | 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        |
| 8  | Hole Trapping at N6-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        |
| 9  | Suppression of DNA-Mediated Charge Transport by BamHI Binding. <i>Chemistry and Biology</i> , 2002, 9, 361-366.   | 6.0  | 34        |
| 10 | In vitro selection of RNA aptamer against <i>Escherichia coli</i> release factor 1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 1216-1220.  | 2.2  | 34        |
| 11 | [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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | Lewis Acidity of Gallium Halides. <i>Inorganic Chemistry</i> , 2002, 41, 4888-4894.   | 4.0  | 24        |
| 17 | Ligand~Dependent Upregulation of Ribosomal Shunting. <i>ChemBioChem</i> , 2013, 14, 1539-1543.  | 2.6  | 19        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | Detection of Gold Nanoparticles Aggregation Using Light Scattering for Molecular Sensing. <i>Analytical Sciences</i> , 2019, 35, 685-690.  | 1.6 | 16        |
| 21 | Reexamination of orbital interactions in Diels-Alder reactions. <i>Tetrahedron Letters</i> , 2002, 43, 2055-2057.  | 1.4 | 15        |
| 22 | 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        |
| 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 | Ligand-responsive upregulation of 3 <sup>â€²</sup> CITE-mediated translation in a wheat germ cell-free expression system. <i>Molecular BioSystems</i> , 2017, 13, 314-319.   | 2.9 | 13        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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        |
| 28 | Detector-free and Multiple Sensing of Various Molecules Using Gold Nanoparticles and Aptazymes. <i>Chemistry Letters</i> , 2009, 38, 848-849.  | 1.3 | 11        |
| 29 | 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        |
| 30 | 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        |
| 31 | 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        |
| 32 | 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        |
| 33 | Rational Design of Artificial ON-Riboswitches. <i>Methods in Molecular Biology</i> , 2014, 1111, 165-181.  | 0.9 | 10        |
| 34 | Termination-Free Prokaryotic Protein Translation by Using Anticodon-Adjusted E. coli tRNAs 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         |
| 35 | <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         |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | 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         |
| 38 | 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         |
| 39 | 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         |
| 40 | 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         |
| 41 | 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         |
| 42 | 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         |
| 43 | Investigation of end processing and degradation of premature tRNAs and their application to stabilization of <i>in vitro</i> transcripts in wheat germ extract. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1008-1012.               | 2.8 | 6         |
| 44 | 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         |
| 45 | <i>In vitro</i> 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         |
| 46 | 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         |
| 47 | 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         |
| 48 | 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         |
| 49 | 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         |
| 50 | Rational Design of Artificial Riboswitches. , 2018, , 79-93.   |     | 2         |
| 51 | 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         |
| 52 | Suppressor tRNA-based Biosensors for Detecting Analytes. <i>Analytical Sciences</i> , 2021, 37, 407-414.   | 1.6 | 2         |
| 53 | <i>In vitro</i> selection of RNA aptamers for the Escherichia coli release factor 1. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 269-270.  | 0.3 | 1         |
| 54 | <i>In vitro</i> read-through polysome/ribosome display of full-length protein ORF and it's applications. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 267-268.  | 0.3 | 1         |

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|----|---|-----|-----------|
| 55 | 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         |
| 56 | 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         |
| 57 | 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         |