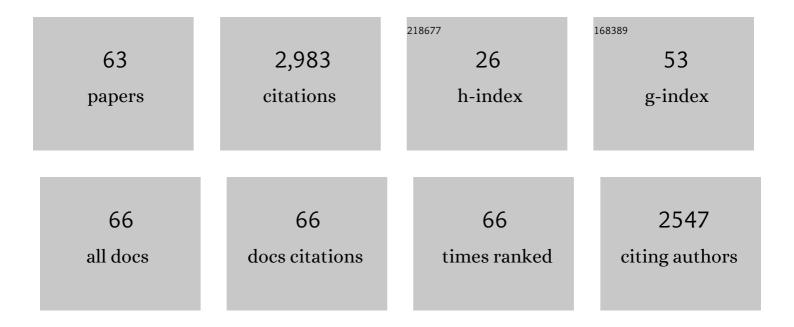
Yohei Yokobayashi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3552877/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATION |
|----|--|------|----------|
| 1 | Directed evolution of a genetic circuit. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16587-16591. | 7.1 | 406 |
| 2 | A chiroselective peptide replicator. Nature, 2001, 409, 797-801. | 27.8 | 292 |
| 3 | Emergence of symbiosis in peptide self-replication through a hypercyclic network. Nature, 1997, 390, 591-594. | 27.8 | 246 |
| 4 | Development of an Aptamer Beacon for Detection of Interferon-Gamma. Analytical Chemistry, 2010, 82, 1851-1857. | 6.5 | 141 |
| 5 | Artificial control of gene expression in mammalian cells by modulating RNA interference through aptamer-small molecule interaction. Rna, 2006, 12, 710-716. | 3.5 | 127 |
| 6 | Reengineering a Natural Riboswitch by Dual Genetic Selection. Journal of the American Chemical Society, 2007, 129, 13814-13815. | 13.7 | 107 |
| 7 | Engineering Complex Riboswitch Regulation by Dual Genetic Selection. Journal of the American Chemical Society, 2008, 130, 16310-16315. | 13.7 | 100 |
| 8 | An efficient platform for genetic selection and screening of gene switches in Escherichia coli. Nucleic Acids Research, 2009, 37, e39-e39. | 14.5 | 100 |
| 9 | Conditional RNA Interference Mediated by Allosteric Ribozyme. Journal of the American Chemical Society, 2009, 131, 13906-13907. | 13.7 | 88 |
| 10 | Controlling Mammalian Gene Expression by Allosteric Hepatitis Delta Virus Ribozymes. ACS Synthetic Biology, 2013, 2, 684-689. | 3.8 | 83 |
| 11 | Engineering Artificial Small RNAs for Conditional Gene Silencing in <i>Escherichia coli</i> . ACS Synthetic Biology, 2012, 1, 6-13. | 3.8 | 82 |
| 12 | Photonic boolean logic gates based on DNA aptamers. Chemical Communications, 2007, , 195-197. | 4.1 | 76 |
| 13 | Programmable Artificial Cells Using Histamine-Responsive Synthetic Riboswitch. Journal of the American Chemical Society, 2019, 141, 11103-11114. | 13.7 | 70 |
| 14 | Aptamer-based and aptazyme-based riboswitches in mammalian cells. Current Opinion in Chemical Biology, 2019, 52, 72-78. | 6.1 | 65 |
| 15 | Graphene based field-effect transistor biosensors functionalized using gas-phase synthesized gold nanoparticles. Sensors and Actuators B: Chemical, 2020, 320, 128432. | 7.8 | 59 |
| 16 | Highâ€Throughput Mutational Analysis of a Twister Ribozyme. Angewandte Chemie - International Edition, 2016, 55, 10354-10357. | 13.8 | 51 |
| 17 | Synthetic mammalian riboswitches based on guanine aptazyme. Chemical Communications, 2012, 48, 7215. | 4.1 | 46 |
| 18 | Dual selection of a genetic switch by a single selection marker. BioSystems, 2007, 90, 115-120. | 2.0 | 42 |

2

Υοήει Υοκοβαγάσηι

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | High-throughput assay and engineering of self-cleaving ribozymes by sequencing. Nucleic Acids Research, 2015, 43, e85-e85. | 14.5 | 41 |
| 20 | Modulating endogenous gene expression of mammalian cells via RNA–small molecule interaction. Biochemical and Biophysical Research Communications, 2008, 376, 169-173. | 2.1 | 39 |
| 21 | Mechanismâ€Guided Library Design and Dual Genetic Selection of Synthetic OFF Riboswitches. ChemBioChem, 2009, 10, 2375-2381. | 2.6 | 39 |
| 22 | Directed evolution of trypsin inhibiting peptides using a genetic algorithm. Journal of the Chemical Society Perkin Transactions 1, 1996, , 2435. | 0.9 | 38 |
| 23 | Enhancing the Selectivity of Molecularly Imprinted Polymers. Chemistry Letters, 1997, 26, 1297-1298. | 1.3 | 35 |
| 24 | A synthetic riboswitch with chemical band-pass response. Chemical Communications, 2010, 46, 6825. | 4.1 | 32 |
| 25 | Deep Sequencing Analysis of Aptazyme Variants Based on a Pistol Ribozyme. ACS Synthetic Biology, 2017, 6, 1283-1288. | 3.8 | 32 |
| 26 | Firefly Luciferase Mutant with Enhanced Activity and Thermostability. ACS Omega, 2018, 3, 2628-2633. | 3.5 | 29 |
| 27 | EVOLUTIONARY DESIGN OF GENETIC CIRCUITS AND CELL-CELL COMMUNICATIONS. International Journal of Modeling, Simulation, and Scientific Computing, 2003, 06, 37-45. | 1.4 | 26 |
| 28 | Efficient Design Strategy for Whole-Cell and Cell-Free Biosensors based on Engineered Riboswitches. Analytical Letters, 2009, 42, 108-122. | 1.8 | 26 |
| 29 | Programmable Macroscopic Self-Assembly of DNA-Decorated Hydrogels. Journal of the American Chemical Society, 2022, 144, 2149-2155. | 13.7 | 26 |
| 30 | RNA Signal Amplifier Circuit with Integrated Fluorescence Output. ACS Synthetic Biology, 2015, 4, 655-658. | 3.8 | 24 |
| 31 | A Dual Selection Module for Directed Evolution of Genetic Circuits. Natural Computing, 2005, 4, 245-254. | 3.0 | 23 |
| 32 | Reversible Gene Regulation in Mammalian Cells Using Riboswitch-Engineered Vesicular Stomatitis Virus Vector. ACS Synthetic Biology, 2019, 8, 1976-1982. | 3.8 | 23 |
| 33 | Design of Mammalian ON-Riboswitches Based on Tandemly Fused Aptamer and Ribozyme. ACS Synthetic Biology, 2020, 9, 19-25. | 3.8 | 23 |
| 34 | Engineering proteins that bind, move, make and break DNA. Current Opinion in Biotechnology, 2003, 14, 371-378. | 6.6 | 22 |
| 35 | Development of a histamine aptasensor for food safety monitoring. Scientific Reports, 2019, 9, 16659. | 3.3 | 21 |
| 36 | Large Scale Mutational and Kinetic Analysis of a Self-Hydrolyzing Deoxyribozyme. ACS Chemical Biology, 2017, 12, 2940-2945. | 3.4 | 20 |

Υοήει Υοκοβαγάσηι

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Knockdown of recA gene expression by artificial small RNAs in Escherichia coli. Biochemical and Biophysical Research Communications, 2013, 430, 256-259. | 2.1 | 19 |
| 38 | Posttranscriptional Signal Integration of Engineered Riboswitches Yields Bandâ€Pass Output. Angewandte Chemie - International Edition, 2010, 49, 4653-4655. | 13.8 | 18 |
| 39 | Controlling <i>Bdellovibrio bacteriovorus</i> Gene Expression and Predation Using Synthetic Riboswitches. ACS Synthetic Biology, 2017, 6, 2035-2041. | 3.8 | 18 |
| 40 | High-Throughput Analysis and Engineering of Ribozymes and Deoxyribozymes by Sequencing. Accounts of Chemical Research, 2020, 53, 2903-2912. | 15.6 | 18 |
| 41 | Riboswitch Signal Amplification by Controlling Plasmid Copy Number. ACS Synthetic Biology, 2019, 8, 245-250. | 3.8 | 17 |
| 42 | Combinatorially Inducible RNA Interference Triggered by Chemically Modified Oligonucleotides. Journal of the American Chemical Society, 2011, 133, 2783-2788. | 13.7 | 16 |
| 43 | Analyzing and Tuning Ribozyme Activity by Deep Sequencing To Modulate Gene Expression Level in Mammalian Cells. ACS Synthetic Biology, 2018, 7, 371-376. | 3.8 | 16 |
| 44 | Cell-free riboswitches. RSC Chemical Biology, 2021, 2, 1430-1440. | 4.1 | 16 |
| 45 | Optochemical control of gene expression by photocaged guanine and riboswitches. Chemical Communications, 2018, 54, 6181-6183. | 4.1 | 15 |
| 46 | Applications of high-throughput sequencing to analyze and engineer ribozymes. Methods, 2019, 161, 41-45. | 3.8 | 14 |
| 47 | Direct screening for ribozyme activity in mammalian cells. Chemical Communications, 2017, 53, 12540-12543. | 4.1 | 13 |
| 48 | Systematic minimization of RNA ligase ribozyme through large-scale design-synthesis-sequence cycles. Nucleic Acids Research, 2019, 47, 8950-8960. | 14.5 | 13 |
| 49 | High-throughput screening of cell-free riboswitches by fluorescence-activated droplet sorting. Nucleic Acids Research, 2022, 50, 3535-3550. | 14.5 | 10 |
| 50 | Engineering proteins that bind, move, make and break DNA. Current Opinion in Biotechnology, 2003, 14, 665. | 6.6 | 9 |
| 51 | Exploration of structural features of monomeric helical peptides designed with a genetic algorithm. Proteins: Structure, Function and Bioinformatics, 2003, 53, 193-200. | 2.6 | 9 |
| 52 | Circularly-Permuted Pistol Ribozyme: A Synthetic Ribozyme Scaffold for Mammalian Riboswitches. ACS Synthetic Biology, 2021, 10, 2040-2048. | 3.8 | 9 |
| 53 | Selection of silk-binding peptides by phage display. Biotechnology Letters, 2011, 33, 1069-1073. | 2.2 | 7 |
| 54 | Directed evolution of orthogonal RNA–RBP pairs through library-vs-library <i>in vitro</i> selection. Nucleic Acids Research, 2022, 50, 601-616. | 14.5 | 6 |

Υόμει Υοκοβαγάσμι

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Highâ€Throughput Mutational Analysis of a Twister Ribozyme. Angewandte Chemie, 2016, 128, 10510-10513. | 2.0 | 4 |
| 56 | Self-powered RNA nanomachine driven by metastable structure. Nucleic Acids Research, 2019, 47, 6007-6014. | 14.5 | 4 |
| 57 | Aptazyme-Based Riboswitches and Logic Gates in Mammalian Cells. Methods in Molecular Biology, 2015, 1316, 141-148. | 0.9 | 4 |
| 58 | Dual Genetic Selection of Synthetic Riboswitches in Escherichia coli. Methods in Molecular Biology, 2014, 1111, 131-140. | 0.9 | 4 |
| 59 | In Vivo Screening of Artificial Small RNAs for Silencing Endogenous Genes in Escherichia coli. Methods in Molecular Biology, 2013, 1073, 75-84. | 0.9 | 3 |
| 60 | Novel RNA Viral Vectors for Chemically Regulated Gene Expression in Embryonic Stem Cells. ACS Synthetic Biology, 2021, 10, 2959-2967. | 3.8 | 2 |
| 61 | Enzymatic Probing Analysis of an Engineered Riboswitch Reveals Multiple off Conformations. Nucleosides, Nucleotides and Nucleic Acids, 2011, 30, 696-705. | 1.1 | 1 |
| 62 | Editorial overview: Mammalian synthetic biology: from devices to multicellular systems. Current Opinion in Chemical Biology, 2019, 52, A1-A2. | 6.1 | 1 |
| 63 | Aptazyme-Based Riboswitches and Logic Gates in Mammalian Cells. Methods in Molecular Biology, 2021, 2323, 213-220. | 0.9 | 1 |