

# Yuzuru Tozawa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4255936/publications.pdf>

Version: 2024-02-01

89  
papers

5,527  
citations

94269

37  
h-index

82410

72  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstitution of prenyltransferase activity on nanodiscs by components of the rubber synthesis machinery of the Para rubber tree and guayule. <i>Scientific Reports</i> , 2022, 12, 3734.	1.6	5
2	Characterization of <i>Plasmodium falciparum</i> Pantothenate Kinase and Identification of Its Inhibitors From Natural Products. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 639065.	1.8	11
3	Catalytic promiscuity of rice 2-oxoglutarate/Fe(II)-dependent dioxygenases supports xenobiotic metabolism. <i>Plant Physiology</i> , 2021, 187, 816-828.	2.3	3
4	Lateral voltage as a new input for artificial lipid bilayer systems. <i>Faraday Discussions</i> , 2021, 233, 244-256.	1.6	2
5	Characterization of mitochondrial carrier proteins of malaria parasite <i>Plasmodium falciparum</i> based on in vitro translation and reconstitution. <i>Parasitology International</i> , 2020, 79, 102160.	0.6	8
6	Establishment of a cell-free translation system from rice callus extracts. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 2028-2036.	0.6	5
7	Advances in Artificial Cell Membrane Systems as a Platform for Reconstituting Ion Channels. <i>Chemical Record</i> , 2020, 20, 730-742.	2.9	22
8	Substrate specificity of plastid phosphate transporters in a non-photosynthetic diatom and its implication in evolution of red alga-derived complex plastids. <i>Scientific Reports</i> , 2020, 10, 1167.	1.6	16
9	A rice gene that confers broad-spectrum resistance to $\hat{2}$ -triketone herbicides. <i>Science</i> , 2019, 365, 393-396.	6.0	60
10	Novel lineage-specific transmembrane $\hat{2}$ -barrel proteins in the endoplasmic reticulum of <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2019, 286, 3416-3432.	2.2	4
11	<i>N</i> -myristoylation and <i>S</i> -acylation are common modifications of $\text{Ca}^{2+}$ -regulated <i>Arabidopsis</i> kinases and are required for activation of the SLAC1 anion channel. <i>New Phytologist</i> , 2018, 218, 1504-1521.	3.5	59
12	The checkpoint kinase <i>TOR</i> (target of rapamycin) regulates expression of a nuclear-encoded chloroplast <i>RelA-SpoT</i> homolog ( <i>RSH</i> ) and modulates chloroplast ribosomal <i>RNA</i> synthesis in a unicellular red alga. <i>Plant Journal</i> , 2018, 94, 327-339.	2.8	28
13	Molecular mutagenesis of ppGpp: turning a <i>RelA</i> activator into an inhibitor. <i>Scientific Reports</i> , 2017, 7, 41839.	1.6	21
14	Mechanically stable solvent-free lipid bilayers in nano- and micro-tapered apertures for reconstitution of cell-free synthesized hERG channels. <i>Scientific Reports</i> , 2017, 7, 17736.	1.6	34
15	Identification and reconstitution of the rubber biosynthetic machinery on rubber particles from <i>Hevea brasiliensis</i> . <i>ELife</i> , 2016, 5, .	2.8	114
16	Auxotrophy-based High Throughput Screening assay for the identification of <i>Bacillus subtilis</i> stringent response inhibitors. <i>Scientific Reports</i> , 2016, 6, 35824.	1.6	17
17	A Novel Mitosomal $\hat{2}$ -Barrel Outer Membrane Protein in <i>Entamoeba</i> . <i>Scientific Reports</i> , 2015, 5, 8545.	1.6	16
18	An enzymatic method to estimate the content of L-hydroxyproline. <i>Journal of Biotechnology</i> , 2015, 199, 9-16.	1.9	23

#	ARTICLE	IF	CITATIONS
19	Evidence that the <i>Entamoeba histolytica</i> Mitochondrial Carrier Family Links Mitosomal and Cytosolic Pathways through Exchange of $3\text{-}^2\text{-Phosphoadenosine } 5\text{-}^2\text{-Phosphosulfate}$ and ATP. <i>Eukaryotic Cell</i> , 2015, 14, 1144-1150.	3.4	21
20	Diversity in Guanosine $3\text{-}^2,5\text{-}^2\text{-Bisdiphosphate}$ (ppGpp) Sensitivity among Guanylate Kinases of Bacteria and Plants. <i>Journal of Biological Chemistry</i> , 2014, 289, 15631-15641.	1.6	34
21	Biochemical analyses of ppGpp effect on adenylosuccinate synthetases, key enzymes in purine biosynthesis in rice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 1022-1025.	0.6	8
22	Identification and characterization of $3\text{-}^2\text{-Hydroxy-L-proline dehydratase}$ and $\text{P}^1\text{-pyrroline-2-carboxylate reductase}$ involved in $3\text{-}^2\text{-Hydroxy-L-proline}$ metabolism of bacteria. <i>FEBS Open Bio</i> , 2014, 4, 240-250.		17
23	Modifications of Wheat Germ Cell-Free System for Functional Proteomics of Plant Membrane Proteins. <i>Methods in Molecular Biology</i> , 2014, 1072, 259-272.	0.4	11
24	Ornithine cyclodeaminase/ $1/4\text{-crystallin}$ homolog from the hyperthermophilic archaeon <i>Thermococcus litoralis</i> functions as a novel $\text{P}^1\text{-pyrroline-2-carboxylate reductase}$ involved in putative $3\text{-}^2\text{-Hydroxy-L-proline}$ metabolism. <i>FEBS Open Bio</i> , 2014, 4, 617-626.	1.0	13
25	Incorporation of adenine nucleotide transporter, Ant1p, into proteoliposomes facilitates ATP translocation and activation of encapsulated luciferase. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 130-133.	1.1	4
26	Cell-free expression—making a mark. <i>Current Opinion in Structural Biology</i> , 2013, 23, 374-380.	2.6	66
27	Theophylline-Dependent Riboswitch as a Novel Genetic Tool for Strict Regulation of Protein Expression in Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Plant and Cell Physiology</i> , 2013, 54, 1724-1735.	1.5	124
28	Characterization of the Plastidic Phosphate Translocators in the Inducible Crassulacean Acid Metabolism Plant <i>Mesembryanthemum crystallinum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1511-1516.	0.6	19
29	Overproduction of Hyperthermostable $\text{I}^2\text{-1,4-Endoglucanase}$ from the Archaeon <i>Pyrococcus horikoshii</i> by Tobacco Chloroplast Engineering. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2140-2143.	0.6	20
30	Effect of Counter Ions on the Transport Current Across Membranes Containing KAT1 Potassium Channel. <i>Analytical Sciences</i> , 2013, 29, 161-164.	0.8	4
31	Eukaryotic-type plastid nucleoid protein pTAC3 is essential for transcription by the bacterial-type plastid RNA polymerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7541-7546.	3.3	87
32	Identification and Characterization of d-Hydroxyproline Dehydrogenase and $\text{P}^1\text{-Pyrroline-4-hydroxy-2-carboxylate Deaminase}$ Involved in Novel l-Hydroxyproline Metabolism of Bacteria. <i>Journal of Biological Chemistry</i> , 2012, 287, 32674-32688.	1.6	39
33	Exploration of a Possible Partnership among Orphan Two-Component System Proteins in Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1484-1491.	0.6	16
34	Expression of a small (p)ppGpp synthetase, YwaC, in the (p)ppGpp <sup>0</sup> mutant of <i>Bacillus subtilis</i> triggers YvyD-dependent dimerization of ribosome. <i>MicrobiologyOpen</i> , 2012, 1, 115-134.	1.2	72
35	ppGpp inhibits peptide elongation cycle of chloroplast translation system in vitro. <i>Plant Molecular Biology</i> , 2012, 78, 185-196.	2.0	17
36	Anti-viral effects of interferon administration on sevenband grouper, <i>Epinephelus septemfasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2011, 30, 1064-1071.	1.6	32

#	ARTICLE	IF	CITATIONS
37	Cell-free synthesis, reconstitution, and characterization of a mitochondrial dicarboxylate-tricarboxylate carrier of <i>Plasmodium falciparum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 612-617.	1.0	28
38	Tolerance of Spermatogonia to Oxidative Stress Is Due to High Levels of Zn and Cu/Zn Superoxide Dismutase. <i>PLoS ONE</i> , 2011, 6, e16938.	1.1	94
39	Co-translational function of Cosmc, core 1 synthase specific molecular chaperone, revealed by a cell-free translation system. <i>FEBS Letters</i> , 2011, 585, 1276-1280.	1.3	10
40	Differences of two polychaete species reflected in enzyme activities. <i>Marine Biology</i> , 2011, 158, 1211-1221.	0.7	6
41	In Vitro Protein Import of a Putative Amino Acid Transporter from <i>Arabidopsis thaliana</i> into Chloroplasts and Its Suborganellar Localization. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 2200-2206.	0.6	3
42	Expression of bacterial tyrosine ammonia-lyase creates a novel p-coumaric acid pathway in the biosynthesis of phenylpropanoids in <i>Arabidopsis</i> . <i>Planta</i> , 2010, 232, 209-218.	1.6	39
43	The consensus motif for N-myristoylation of plant proteins in a wheat germ cell-free translation system. <i>FEBS Journal</i> , 2010, 277, 3596-3607.	2.2	31
44	Ribosome rescue by <i>Escherichia coli</i> ArfA (YhdL) in the absence of trans-translation system. <i>Molecular Microbiology</i> , 2010, 78, 796-808.	1.2	136
45	Production of Membrane Proteins Through the Wheat-Germ Cell-Free Technology. <i>Methods in Molecular Biology</i> , 2010, 607, 213-218.	0.4	14
46	Efficient production and purification of functional bacteriorhodopsin with a wheat-germ cell-free system and a combination of Fos-choline and CHAPS detergents. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 638-642.	1.0	20
47	Control of translational initiation in the wheat-embryo cell-free protein expression system for producing homogenous products. <i>Protein Expression and Purification</i> , 2010, 73, 15-22.	0.6	6
48	Protein Engineering Accelerated by Cell-Free Technology. <i>Methods in Molecular Biology</i> , 2010, 607, 85-99.	0.4	5
49	Novel Bacterial N-Acetyltransferase Gene for Herbicide Detoxification in Land Plants and Selection Marker in Plant Transformation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1000-1006.	0.6	16
50	The contribution of endogenous cellulase to the cellulose digestion in the gut of earthworm ( <i>Pheretima hilgendorfi</i> : Megascolecidae). <i>Soil Biology and Biochemistry</i> , 2009, 41, 762-769.	4.2	42
51	Transcription Activity of Individual <i>rrn</i> Operons in <i>Bacillus subtilis</i> Mutants Deficient in (p)ppGpp Synthetase Genes, <i>relA</i> , <i>yjbM</i> , and <i>ywaC</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4555-4561.	1.0	43
52	Identification and functional analysis of novel (p)ppGpp synthetase genes in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2008, 67, 291-304.	1.2	208
53	Possible targets of "magic spots" in plant signalling. <i>Plant Signaling and Behavior</i> , 2008, 3, 1021-1023.	1.2	15
54	The Bacterial Stringent Response, Conserved in Chloroplasts, Controls Plant Fertilization. <i>Plant and Cell Physiology</i> , 2008, 49, 135-141.	1.5	73

#	ARTICLE	IF	CITATIONS
55	Mutation of a Rice Gene Encoding a Phenylalanine Biosynthetic Enzyme Results in Accumulation of Phenylalanine and Tryptophan. <i>Plant Cell</i> , 2008, 20, 1316-1329.	3.1	89
56	Expression of Parsley Flavone Synthase I Establishes the Flavone Biosynthetic Pathway in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 968-973.	0.6	23
57	Two Novel Nuclear Genes, OsSIG5 and OsSIG6 , Encoding Potential Plastid Sigma Factors of RNA Polymerase in Rice: Tissue-Specific and Light-Responsive Gene Expression. <i>Plant and Cell Physiology</i> , 2007, 48, 186-192.	1.5	21
58	A Cell-Free Translation and Proteoliposome Reconstitution System for Functional Analysis of Plant Solute Transporters. <i>Plant and Cell Physiology</i> , 2007, 48, 1815-1820.	1.5	83
59	Sequence specificity and efficiency of protein N-terminal methionine elimination in wheat-embryo cell-free system. <i>Protein Expression and Purification</i> , 2007, 52, 59-65.	0.6	16
60	Calcium-activated (p)ppGpp Synthetase in Chloroplasts of Land Plants. <i>Journal of Biological Chemistry</i> , 2007, 282, 35536-35545.	1.6	75
61	Oxidation of elongation factor G inhibits the synthesis of the D1 protein of photosystem II. <i>Molecular Microbiology</i> , 2007, 65, 936-947.	1.2	116
62	The plastid sigma factor SIG1 maintains photosystem I activity via regulated expression of the <i>psaA</i> operon in rice chloroplasts. <i>Plant Journal</i> , 2007, 52, 124-132.	2.8	32
63	Functional similarities of a thermostable protein-disulfide oxidoreductase identified in the archaeon <i>Pyrococcus horikoshii</i> to bacterial DsbA enzymes. <i>Extremophiles</i> , 2007, 11, 85-94.	0.9	2
64	Roles of 11 $\beta$ -Hydroxysteroid Dehydrogenase in Fish Spermatogenesis. <i>Endocrinology</i> , 2006, 147, 5139-5146.	1.4	95
65	Covalent circularization of exogenous RNA during incubation with a wheat embryo cell extract. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 1080-1087.	1.0	10
66	Tolerance for random recombination of domains in prokaryotic and eukaryotic translation systems: Limited interdomain misfolding in a eukaryotic translation system. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 343-354.	1.5	25
67	High-level tryptophan accumulation in seeds of transgenic rice and its limited effects on agronomic traits and seed metabolite profile. <i>Journal of Experimental Botany</i> , 2006, 57, 3069-3078.	2.4	111
68	Identification of three shikimate kinase genes in rice: characterization of their differential expression during panicle development and of the enzymatic activities of the encoded proteins. <i>Planta</i> , 2005, 222, 438-447.	1.6	69
69	Use of a feedback-insensitive $\gamma$ subunit of anthranilate synthase as a selectable marker for transformation of rice and potato. <i>Molecular Breeding</i> , 2005, 14, 363-373.	1.0	8
70	Structure-Based in Vitro Engineering of the Anthranilate Synthase, a Metabolic Key Enzyme in the Plant Tryptophan Pathway. <i>Plant Physiology</i> , 2005, 138, 2260-2268.	2.3	29
71	Differential Expression of Three Plastidial Sigma Factors, OsSIG1, OsSIG2A, and OsSIG2B, during Leaf Development in Rice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 973-977.	0.6	25
72	Guanosine tetra- and pentaphosphate synthase activity in chloroplasts of a higher plant: association with 70S ribosomes and inhibition by tetracycline. <i>Nucleic Acids Research</i> , 2004, 32, 5732-5741.	6.5	62

#	ARTICLE	IF	CITATIONS
73	The virescent-2 Mutation Inhibits Translation of Plastid Transcripts for the Plastid Genetic System at an Early Stage of Chloroplast Differentiation. <i>Plant and Cell Physiology</i> , 2004, 45, 985-996.	1.5	113
74	Characterization of a Rice Nuclear-Encoded Plastid RNA Polymerase Gene OsRpoTp. <i>Plant and Cell Physiology</i> , 2004, 45, 1194-1201.	1.5	83
75	In vitro reconstitution of rice anthranilate synthase: distinct functional properties of the $\hat{\pm}$ subunits OASA1 and OASA2. <i>Plant Molecular Biology</i> , 2004, 54, 11-22.	2.0	43
76	Use of a feedback-insensitive $\gamma$ subunit of anthranilate synthase as a selectable marker for transformation of rice and potato. <i>Molecular Breeding</i> , 2004, 14, 363-373.	1.0	42
77	Ribosome Engineering and Secondary Metabolite Production. <i>Advances in Applied Microbiology</i> , 2004, 56, 155-184.	1.3	144
78	Expression Profiling of Translation-associated Genes in Sporulating <i>Bacillus subtilis</i> and Consequence of Sporulation by Gene Inactivation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 2245-2253.	0.6	33
79	OsRALyase1, a Putative F-Box Protein Identified in Rice, <i>Oryza sativa</i> , with Enzyme Activity Identical to That of Wheat RALyase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2727-2731.	0.6	13
80	A RelA-SpoT homolog (Cr-RSH) identified in <i>Chlamydomonas reinhardtii</i> generates stringent factor in vivo and localizes to chloroplasts in vitro. <i>Nucleic Acids Research</i> , 2002, 30, 4985-4992.	6.5	56
81	Genetic and physiological characterization of rpoB mutations that activate antibiotic production in <i>Streptomyces lividans</i> . <i>Microbiology (United Kingdom)</i> , 2002, 148, 3365-3373.	0.7	58
82	Efficient Transformation of Suspension-cultured Rice Cells Mediated by <i>Agrobacterium tumefaciens</i> .. <i>Breeding Science</i> , 2001, 51, 33-38.	0.9	27
83	Characterization of Rice Anthranilate Synthase $\hat{\pm}$ -Subunit Genes OASA1 and OASA2. Tryptophan Accumulation in Transgenic Rice Expressing a Feedback-Insensitive Mutant of OASA1. <i>Plant Physiology</i> , 2001, 126, 1493-1506.	2.3	141
84	Nuclear encoding of a plastid $\hat{\Delta}$ factor in rice and its tissue- and light-dependent expression. <i>Nucleic Acids Research</i> , 1998, 26, 415-419.	6.5	80
85	Characterization of three cDNA species encoding plastid RNA polymerase sigma factors in <i>Arabidopsis thaliana</i> : evidence for the sigma factor heterogeneity in higher plant plastids. <i>FEBS Letters</i> , 1997, 413, 309-313.	1.3	129
86	Differential induction of helper and killer T cells from isolated CD4+CD8+ thymocytes in suspension culture. <i>European Journal of Immunology</i> , 1996, 26, 2081-2086.	1.6	50
87	In vitro differentiation and commitment of CD4+ thymocytes to the CD4+ lineage without TCR engagement. <i>International Immunology</i> , 1996, 8, 297-306.	1.8	55
88	Distinct roles of the receptor tyrosine kinases Tie-1 and Tie-2 in blood vessel formation. <i>Nature</i> , 1995, 376, 70-74.	13.7	1,666
89	Involvement of protein kinase C- $\hat{\epsilon}$ in glucocorticoid-induced apoptosis in thymocytes. <i>International Immunology</i> , 1994, 6, 431-438.	1.8	60