

Jun Ishii

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

2,126
citations

25
h-index

41
g-index

122
ext. papers

2,486
ext. citations

5.2
avg, IF

4.83
L-index

#	Paper	IF	Citations
101	Machine learning discovery of missing links that mediate alternative branches to plant alkaloids.. <i>Nature Communications</i> , 2022 , 13, 1405	17.4	0
100	Increased carvone production in Escherichia coli by balancing limonene conversion enzyme expression via targeted quantification concatamer proteome analysis. <i>Scientific Reports</i> , 2021 , 11, 22126	4.9	0
99	Robust and flexible platform for directed evolution of yeast genetic switches. <i>Nature Communications</i> , 2021 , 12, 1846	17.4	3
98	Synthetic production of prenylated naringenins in yeast using promiscuous microbial prenyltransferases. <i>Metabolic Engineering Communications</i> , 2021 , 12, e00169	6.5	3
97	Metabolic design for selective production of nicotinamide mononucleotide from glucose and nicotinamide. <i>Metabolic Engineering</i> , 2021 , 65, 167-177	9.7	8
96	Comparative analyses of site-directed mutagenesis of human melatonin MTNR1A and MTNR1B receptors using a yeast fluorescent biosensor. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 863-876	4.9	
95	Constitutive cell surface expression of ZZ domain for the easy preparation of yeast-based immunosorbents. <i>Journal of General and Applied Microbiology</i> , 2021 ,	1.5	1
94	Evaluation of the Z-BNC/LP Carrier Encapsulating an Anticancer Drug and a Radiosensitizer.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 7743-7751	4.1	0
93	Exchange of endogenous and heterogeneous yeast terminators in Pichia pastoris to tune mRNA stability and gene expression. <i>Nucleic Acids Research</i> , 2020 , 48, 13000-13012	20.1	10
92	Mechanism-based tuning of insect 3,4-dihydroxyphenylacetaldehyde synthase for synthetic bioproduction of benzylisoquinoline alkaloids. <i>Nature Communications</i> , 2019 , 10, 2015	17.4	17
91	Repression of mitochondrial metabolism for cytosolic pyruvate-derived chemical production in Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , 2019 , 18, 177	6.4	3
90	Heterologous production of free dihomog- γ -linolenic acid by Aspergillus oryzae and its extracellular release via surfactant supplementation. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 451-457	3.3	5
89	Metabolic engineering of the 2-ketobutyrate biosynthetic pathway for 1-propanol production in Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , 2018 , 17, 38	6.4	14
88	Selection of yeast Saccharomyces cerevisiae promoters available for xylose cultivation and fermentation. <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 76-86	3.3	12
87	A pyruvate carbon flux tugging strategy for increasing 2,3-butanediol production and reducing ethanol subgeneration in the yeast. <i>Biotechnology for Biofuels</i> , 2018 , 11, 180	7.8	16
86	Deletion of DNA ligase IV homolog confers higher gene targeting efficiency on homologous recombination in Komagataella phaffii. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	4
85	Short Oligopeptides for Biocompatible and Biodegradable Supramolecular Hydrogels. <i>Langmuir</i> , 2018 , 34, 8065-8074	4	17

84	Modifying Expression Modes of Human Neurotensin Receptor Type 1 Alters Sensing Capabilities for Agonists in Yeast Signaling Biosensor. <i>Biotechnology Journal</i> , 2018 , 13, e1700522	5.6	7
83	Biosensing Techniques in Yeast: G-Protein Signaling and Protein-Protein Interaction Assays for Monitoring Ligand Stimulation and Oligomer Formation of Heterologous GPCRs 2018 ,		1
82	Biosynthesis of Novel Statins by Combining Heterologous Genes from Xylaria and Aspergillus. <i>ACS Synthetic Biology</i> , 2018 , 7, 2783-2789	5.7	6
81	A Stable, Autonomously Replicating Plasmid Vector Containing Pichia pastoris Centromeric DNA. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	23
80	Split luciferase complementation assay for the analysis of G protein-coupled receptor ligand response in Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1354-1361	4.9	3
79	Positive Detection of GPCR Antagonists Using a System for Inverted Expression of a Fluorescent Reporter Gene. <i>ACS Synthetic Biology</i> , 2017 , 6, 1554-1562	5.7	6
78	Affibody-displaying bio-nanocapsules effective in EGFR, typical biomarker, expressed in various cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 336-341	2.9	5
77	Heterologous expression of bacterial phosphoenol pyruvate carboxylase and Entner-Doudoroff pathway in Saccharomyces cerevisiae for improvement of isobutanol production. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 263-270	3.3	12
76	Glutathione production from mannan-based bioresource by mannanase/mannosidase expressing Saccharomyces cerevisiae. <i>Bioresource Technology</i> , 2017 , 245, 1400-1406	11	11
75	Positive Feedback Genetic Circuit Incorporating a Constitutively Active Mutant Gal3 into Yeast GAL Induction System. <i>ACS Synthetic Biology</i> , 2017 , 6, 928-935	5.7	9
74	Transporter engineering in biomass utilization by yeast. <i>FEMS Yeast Research</i> , 2017 , 17,	3.1	26
73	Enhancement of astaxanthin production in Xanthophyllomyces dendrorhous by efficient method for the complete deletion of genes. <i>Microbial Cell Factories</i> , 2016 , 15, 155	6.4	29
72	Dual-color reporter switching system to discern dimer formations of G-protein-coupled receptors using Cre/loxP site-specific recombination in yeast. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2178-90	4.9	3
71	Identification of a novel hedycaryol synthase gene isolated from Camellia brevistyla flowers and floral scent of Camellia cultivars. <i>Planta</i> , 2016 , 243, 959-72	4.7	22
70	Overexpressing enzymes of the Ehrlich pathway and deleting genes of the competing pathway in Saccharomyces cerevisiae for increasing 2-phenylethanol production from glucose. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 34-9	3.3	27
69	FudC, a protein primarily responsible for furfural detoxification in Corynebacterium glutamicum. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2685-92	5.7	14
68	Current Techniques for Studying Oligomer Formations of G-Protein-Coupled Receptors Using Mammalian and Yeast Cells. <i>Current Medicinal Chemistry</i> , 2016 , 23, 1638-56	4.3	2
67	Enhanced cell-surface display and secretory production of cellulolytic enzymes with Saccharomyces cerevisiae Sed1 signal peptide. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2358-66	4.9	36

66	Expression of varied GFPs in <i>Saccharomyces cerevisiae</i> : codon optimization yields stronger than expected expression and fluorescence intensity. <i>Scientific Reports</i> , 2016 , 6, 35932	4.9	42
65	From mannan to bioethanol: cell surface co-display of β mannanase and β mannosidase on yeast <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2016 , 9, 188	7.8	22
64	Continuous crossbreeding of sake yeasts using growth selection systems for α -type and β -type cells. <i>AMB Express</i> , 2016 , 6, 45	4.1	9
63	Rational design and evolutionary fine tuning of <i>Saccharomyces cerevisiae</i> for biomass breakdown. <i>Current Opinion in Chemical Biology</i> , 2015 , 29, 1-9	9.7	32
62	Mutation of arginine residues to avoid non-specific cellular uptakes for hepatitis B virus core particles. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 15	9.4	3
61	Rational design of a degradable polyanion for layer-by-layer assembly for encapsulation and release of cationic functional biomolecules. <i>Chemical Communications</i> , 2015 , 51, 17447-50	5.8	2
60	Complete Genome Sequence of <i>Kluyveromyces marxianus</i> NBRC1777, a Nonconventional Thermotolerant Yeast. <i>Genome Announcements</i> , 2015 , 3,		36
59	Improving the odorant sensitivity of olfactory receptor-expressing yeast with accessory proteins. <i>Analytical Biochemistry</i> , 2015 , 471, 1-8	3.1	21
58	G β recruitment systems specifically select PPI and affinity-enhanced candidate proteins that interact with membrane protein targets. <i>Scientific Reports</i> , 2015 , 5, 16723	4.9	2
57	Applications of yeast-based signaling sensor for characterization of antagonist and analysis of site-directed mutants of the human serotonin 1A receptor. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1906-15	4.9	20
56	Current Status and Future Perspectives of Bio-Refinery. <i>Kagaku To Seibutsu</i> , 2015 , 53, 689-695	0	2
55	Efficient co-displaying and artificial ratio control of β amylase and glucoamylase on the yeast cell surface by using combinations of different anchoring domains. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1655-63	5.7	27
54	Eliminating the isoleucine biosynthetic pathway to reduce competitive carbon outflow during isobutanol production by <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 62	6.4	34
53	Polyamino acid display on cell surfaces enhances salt and alcohol tolerance of <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2015 , 37, 429-35	3	2
52	The mapping of yeast's G-protein coupled receptor with an atomic force microscope. <i>Nanoscale</i> , 2015 , 7, 4956-63	7.7	8
51	Three gene expression vector sets for concurrently expressing multiple genes in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2014 , 14, 399-411	3.1	25
50	Microbial fluorescence sensing for human neurotensin receptor type 1 using G β engineered yeast cells. <i>Analytical Biochemistry</i> , 2014 , 446, 37-43	3.1	14
49	Detoxification of furfural in <i>Corynebacterium glutamicum</i> under aerobic and anaerobic conditions. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 8675-83	5.7	20

48	A display of pH-sensitive fusogenic GALA peptide facilitates endosomal escape from a Bio-nanocapsule via an endocytic uptake pathway. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 11	9.4	31
47	2P317 Peptide-based ligand screening system for G protein-coupled receptors (GPCRs) using water-in-oil microdroplets(28. Bioengineering,Poster,The 52nd Annual Meeting of the Biophysical Society of Japan(BSJ2014)). <i>Seibutsu Butsuri</i> , 2014 , 54, S247	0	
46	Genetic engineering of bio-nanoparticles for drug delivery: a review. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 2063-85	4	14
45	Desired alteration of protein affinities: competitive selection of protein variants using yeast signal transduction machinery. <i>PLoS ONE</i> , 2014 , 9, e108229	3.7	4
44	Simultaneous method for analyzing dimerization and signaling of G-protein-coupled receptor in yeast by dual-color reporter system. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 586-96	4.9	12
43	Construction of a yeast-based signaling biosensor for human angiotensin II type 1 receptor via functional coupling between Asn295-mutated receptor and Gpa1/Gi3 chimeric G β . <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2220-8	4.9	10
42	Targeting cancer cell-specific RNA interference by siRNA delivery using a complex carrier of affibody-displaying bio-nanocapsules and liposomes. <i>Journal of Nanobiotechnology</i> , 2013 , 11, 19	9.4	24
41	Reduction of furan derivatives by overexpressing NADH-dependent Adh1 improves ethanol fermentation using xylose as sole carbon source with <i>Saccharomyces cerevisiae</i> harboring XR-XDH pathway. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 2597-607	5.7	27
40	Implementation of a transhydrogenase-like shunt to counter redox imbalance during xylose fermentation in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 1669-78	5.7	23
39	Regulation of central carbon metabolism in <i>Saccharomyces cerevisiae</i> by metabolic inhibitors. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 116, 59-64	3.3	2
38	An affinity chromatography method used to purify His-tag-displaying bio-nanocapsules. <i>Journal of Virological Methods</i> , 2013 , 189, 393-6	2.6	5
37	Granting specificity for breast cancer cells using a hepatitis B core particle with a HER2-targeted affibody molecule. <i>Journal of Biochemistry</i> , 2013 , 153, 251-6	3.1	11
36	Increased isobutanol production in <i>Saccharomyces cerevisiae</i> by eliminating competing pathways and resolving cofactor imbalance. <i>Microbial Cell Factories</i> , 2013 , 12, 119	6.4	102
35	A review of enzymes and microbes for lignocellulosic biorefinery and the possibility of their application to consolidated bioprocessing technology. <i>Bioresource Technology</i> , 2013 , 135, 513-22	11	240
34	Development of microbial cell factories for bio-refinery through synthetic bioengineering. <i>Journal of Biotechnology</i> , 2013 , 163, 204-16	3.7	46
33	1P312 Yeast-based fluorescence assay system for detecting human G protein-coupled receptor activation in water-in-oil droplets(28. Bioengineering,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S157	0	
32	Rapid, Facile Detection of Heterodimer Partners for Target Human G-Protein-Coupled Receptors Using a Modified Split-Ubiquitin Membrane Yeast Two-Hybrid System. <i>PLoS ONE</i> , 2013 , 8, e66793	3.7	13
31	Bright fluorescence monitoring system utilizing <i>Zoanthus</i> sp. green fluorescent protein (ZsGreen) for human G-protein-coupled receptor signaling in microbial yeast cells. <i>PLoS ONE</i> , 2013 , 8, e82237	3.7	19

30	The N-terminal replacement of an olfactory receptor for the development of a yeast-based biomimetic odor sensor. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 205-12	4.9	27
29	Protein-encapsulated bio-nanocapsules production with ER membrane localization sequences. <i>Journal of Biotechnology</i> , 2012 , 157, 124-9	3.7	3
28	Genetic engineering to enhance the Ehrlich pathway and alter carbon flux for increased isobutanol production from glucose by <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2012 , 159, 32-7	3.7	131
27	Cell wall trapping of autocrine peptides for human G-protein-coupled receptors on the yeast cell surface. <i>PLoS ONE</i> , 2012 , 7, e37136	3.7	21
26	An energy-saving glutathione production method from low-temperature cooked rice using amylase-expressing <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2012 , 7, 686-9	5.6	4
25	An improved bioluminescence-based signaling assay for odor sensing with a yeast expressing a chimeric olfactory receptor. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 3143-51	4.9	15
24	Transplantation of the GAL regulon into G-protein signaling circuitry in yeast. <i>Analytical Biochemistry</i> , 2012 , 424, 27-31	3.1	5
23	Improved identification of agonist-mediated G $\beta\gamma$ -specific human G-protein-coupled receptor signaling in yeast cells by flow cytometry. <i>Analytical Biochemistry</i> , 2012 , 426, 129-33	3.1	12
22	Construction of an artificial pathway for isobutanol biosynthesis in the cytosol of <i>Saccharomyces cerevisiae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2012 , 76, 2139-41	2.1	30
21	Complex carriers of affibody-displaying bio-nanocapsules and composition-varied liposomes for HER2-expressing breast cancer cell-specific protein delivery. <i>Journal of Drug Targeting</i> , 2012 , 20, 897-905	5.4	10
20	1PT234 Yeast-based ligand assay system for detecting G protein-coupled receptor activation in water-in-oil droplets(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S108	0	
19	3J1012 Development of effective on-chip cell sorting system for mammalian G-protein coupled receptor ligand screening(3J Bioengineering 1,The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S140	0	
18	G $\beta\gamma$ recruitment system incorporating a novel signal amplification circuit to screen transient protein-protein interactions. <i>FEBS Journal</i> , 2011 , 278, 3086-94	5.7	9
17	Amplification of agonist stimulation of human G-protein-coupled receptor signaling in yeast. <i>Analytical Biochemistry</i> , 2011 , 417, 182-7	3.1	21
16	Metabolic pathway engineering based on metabolomics confers acetic and formic acid tolerance to a recombinant xylose-fermenting strain of <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2011 , 10, 2	6.4	186
15	Engineering strategy of yeast metabolism for higher alcohol production. <i>Microbial Cell Factories</i> , 2011 , 10, 70	6.4	38
14	The competitor-introduced G $\beta\gamma$ recruitment system, a new approach for screening affinity-enhanced proteins. <i>FEBS Journal</i> , 2010 , 277, 1704-12	5.7	10
13	Protein-protein interactions and selection: yeast-based approaches that exploit guanine nucleotide-binding protein signaling. <i>FEBS Journal</i> , 2010 , 277, 1982-95	5.7	25

12	Control of signalling properties of human somatostatin receptor subtype-5 by additional signal sequences on its amino-terminus in yeast. <i>Journal of Biochemistry</i> , 2010 , 147, 875-84	3.1	26
11	Importance of asparagine residues at positions 13 and 26 on the amino-terminal domain of human somatostatin receptor subtype-5 in signalling. <i>Journal of Biochemistry</i> , 2010 , 147, 867-73	3.1	22
10	Construction of a xylose-metabolizing yeast by genome integration of xylose isomerase gene and investigation of the effect of xylitol on fermentation. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 1215-21	5.7	34
9	Displaying non-natural, functional molecules on yeast surfaces via biotin-streptavidin interaction. <i>Journal of Biotechnology</i> , 2010 , 145, 79-83	3.7	12
8	Construction of a novel detection system for protein-protein interactions using yeast G-protein signaling. <i>FEBS Journal</i> , 2009 , 276, 2636-44	5.7	12
7	A simple and immediate method for simultaneously evaluating expression level and plasmid maintenance in yeast. <i>Journal of Biochemistry</i> , 2009 , 145, 701-8	3.1	81
6	Rapid and efficient selection of yeast displaying a target protein using thermo-responsive magnetic nanoparticles. <i>Biotechnology Progress</i> , 2008 , 24, 352-7	2.8	7
5	Yeast-based fluorescence reporter assay of G protein-coupled receptor signalling for flow cytometric screening: FAR1-disruption recovers loss of episomal plasmid caused by signalling in yeast. <i>Journal of Biochemistry</i> , 2008 , 143, 667-74	3.1	29
4	Development of a yeast protein fragment complementation assay (PCA) system using dihydrofolate reductase (DHFR) with specific additives. <i>Applied Microbiology and Biotechnology</i> , 2008 , 80, 735-43	5.7	14
3	Construction of a novel synergistic system for production and recovery of secreted recombinant proteins by the cell surface engineering. <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 821-8	5.7	26
2	High-efficiency recovery of target cells using improved yeast display system for detection of protein-protein interactions. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 151-8	5.7	23
1	Quantitative and dynamic analyses of G protein-coupled receptor signaling in yeast using Fus1, enhanced green fluorescence protein (EGFP), and His3 fusion protein. <i>Biotechnology Progress</i> , 2006 , 22, 954-60	2.8	25