

# Tomohisa Hasunuma

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,409  
citations

411340

20  
h-index

388640

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pretreatment of extruded Napier grass by hydrothermal process with dilute sulfuric acid and fermentation using a cellulose-hydrolyzing and xylose-assimilating yeast for ethanol production. <i>Bioresource Technology</i> , 2022, 343, 126071.	4.8	12
2	Metabolomics-based engineering for biofuel and bio-based chemical production in microalgae and cyanobacteria: A review. <i>Bioresource Technology</i> , 2022, 344, 126196.	4.8	31
3	Resveratrol production of a recombinant <i>Scheffersomyces stipitis</i> strain from molasses. <i>Biotechnology Notes</i> , 2022, 3, 1-7.	0.7	3
4	Enzyme display technology for lignocellulosic biomass valorization by yeast cell factories. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 33, 100584.	3.2	9
5	Machine learning discovery of missing links that mediate alternative branches to plant alkaloids. <i>Nature Communications</i> , 2022, 13, 1405.	5.8	10
6	Pulsed-Ultrasound Irradiation Induces the Production of Itaconate and Attenuates Inflammatory Responses in Macrophages. <i>Journal of Inflammation Research</i> , 2022, Volume 15, 2387-2395.	1.6	4
7	Construction of an <i>l</i> -Tyrosine Chassis in <i>Pichia pastoris</i> Enhances Aromatic Secondary Metabolite Production from Glycerol. <i>ACS Synthetic Biology</i> , 2022, 11, 2098-2107.	1.9	19
8	Avoiding entry into intracellular protein degradation pathways by signal mutations increases protein secretion in <i>Pichia pastoris</i> . <i>Microbial Biotechnology</i> , 2022, 15, 2364-2378.	2.0	8
9	A streamlined strain engineering workflow with genome-wide screening detects enhanced protein secretion in <i>Komagataella phaffii</i> . <i>Communications Biology</i> , 2022, 5, .	2.0	6
10	An ion-pair free LC-MS/MS method for quantitative metabolite profiling of microbial bioproduction systems. <i>Talanta</i> , 2021, 222, 121625.	2.9	10
11	Metabolic Engineering for Carotenoid Production Using Eukaryotic Microalgae and Prokaryotic Cyanobacteria. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1261, 121-135.	0.8	9
12	Disruption of alpha-tubulin releases carbon catabolite repression and enhances enzyme production in <i>Trichoderma reesei</i> even in the presence of glucose. <i>Biotechnology for Biofuels</i> , 2021, 14, 39.	6.2	13
13	Development of a Method for Fucoxanthin Production Using the Haptophyte Marine Microalga <i>Pavlova</i> sp. OPMS 30543. <i>Marine Biotechnology</i> , 2021, 23, 331-341.	1.1	19
14	Morphological Indicator for Directed Evolution of <i>Euglena gracilis</i> with a High Heavy Metal Removal Efficiency. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7880-7889.	4.6	7
15	Enhancing carbohydrate repartitioning into lipid and carotenoid by disruption of microalgae starch debranching enzyme. <i>Communications Biology</i> , 2021, 4, 450.	2.0	30
16	Innovative Tools and Strategies for Optimizing Yeast Cell Factories. <i>Trends in Biotechnology</i> , 2021, 39, 488-504.	4.9	37
17	Improving the functionality of surface-engineered yeast cells by altering the cell wall morphology of the host strain. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5895-5904.	1.7	19
18	Development of mutant microalgae that accumulate lipids under nitrate-replete conditions. <i>Algal Research</i> , 2021, 60, 102544.	2.4	4

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19	Resveratrol production from several types of saccharide sources by a recombinant <i>Scheffersomyces stipitis</i> strain. <i>Metabolic Engineering Communications</i> , 2021, 13, e00188.	1.9	13
20	Nitrogen Availability Affects the Metabolic Profile in Cyanobacteria. <i>Metabolites</i> , 2021, 11, 867.	1.3	4
21	Dynamic Metabolomics for Engineering Biology: Accelerating Learning Cycles for Bioproduction. <i>Trends in Biotechnology</i> , 2020, 38, 68-82.	4.9	20
22	Novel strategy for anchorage position control of GPI-attached proteins in the yeast cell wall using different GPI-anchoring domains. <i>Metabolic Engineering</i> , 2020, 57, 110-117.	3.6	25
23	Raman image-activated cell sorting. <i>Nature Communications</i> , 2020, 11, 3452.	5.8	116
24	Sequentially addressable dielectrophoretic array for high-throughput sorting of large-volume biological compartments. <i>Science Advances</i> , 2020, 6, eaba6712.	4.7	56
25	Malic Enzyme Facilitates $\alpha$ -Lactate Production through Increased Pyruvate Supply during Anoxic Dark Fermentation in <i>Synechocystis</i> sp. PCC 6803. <i>ACS Synthetic Biology</i> , 2020, 9, 260-268.	1.9	25
26	Production of 1,2,4-butanetriol from xylose by <i>Saccharomyces cerevisiae</i> through Fe metabolic engineering. <i>Metabolic Engineering</i> , 2019, 56, 17-27.	3.6	31
27	Single-Stage Astaxanthin Production Enhances the Nonmevalonate Pathway and Photosynthetic Central Metabolism in <i>Synechococcus</i> sp. PCC 7002. <i>ACS Synthetic Biology</i> , 2019, 8, 2701-2709.	1.9	37
28	Mechanism-based tuning of insect 3,4-dihydroxyphenylacetaldehyde synthase for synthetic bioproduction of benzylisoquinoline alkaloids. <i>Nature Communications</i> , 2019, 10, 2015.	5.8	26
29	Increased flux in acetyl-CoA synthetic pathway and TCA cycle of <i>Kluyveromyces marxianus</i> under respiratory conditions. <i>Scientific Reports</i> , 2019, 9, 5319.	1.6	39
30	Short-Term Temporal Metabolic Behavior in Halophilic Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002 after Salt Shock. <i>Metabolites</i> , 2019, 9, 297.	1.3	18
31	Sustainable production of glutathione from lignocellulose-derived sugars using engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1243-1254.	1.7	8
32	Temperature enhanced succinate production concurrent with increased central metabolism turnover in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2018, 48, 109-120.	3.6	59
33	Evolutionary engineering of salt-resistant <i>Chlamydomonas</i> sp. strains reveals salinity stress-activated starch-to-lipid biosynthesis switching. <i>Bioresource Technology</i> , 2017, 245, 1484-1490.	4.8	50
34	Hyperphosphorylation of DegU cancels CcpA-dependent catabolite repression of rocG in <i>Bacillus subtilis</i> . <i>BMC Microbiology</i> , 2015, 15, 43.	1.3	6
35	Evaluation of genes involved in oxidative phosphorylation in yeast by developing a simple and rapid method to measure mitochondrial ATP synthetic activity. <i>Microbial Cell Factories</i> , 2015, 14, 56.	1.9	5
36	Development of bio-based fine chemical production through synthetic bioengineering. <i>Microbial Cell Factories</i> , 2014, 13, 173.	1.9	42

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37	Development of a GIN11/FRT-based multiple-gene integration technique affording inhibitor-tolerant, hemicellulolytic, xylose-utilizing abilities to industrial <i>Saccharomyces cerevisiae</i> strains for ethanol production from undetoxified lignocellulosic hemicelluloses. <i>Microbial Cell Factories</i> , 2014, 13, 145.	1.9	24
38	Development of lipid productivities under different CO <sub>2</sub> conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014, 152, 247-252.	4.8	82
39	Co-expression of TAL1 and ADH1 in recombinant xylose-fermenting <i>Saccharomyces cerevisiae</i> improves ethanol production from lignocellulosic hydrolysates in the presence of furfural. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 165-169.	1.1	68
40	Aqueous size-exclusion chromatographic method for the quantification of cyanobacterial native glycogen. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 930, 90-97.	1.2	20
41	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. <i>Journal of Experimental Botany</i> , 2013, 64, 2943-2954.	2.4	132
42	Consolidated bioprocessing and simultaneous saccharification and fermentation of lignocellulose to ethanol with thermotolerant yeast strains. <i>Process Biochemistry</i> , 2012, 47, 1287-1294.	1.8	158
43	Widely targeted metabolic profiling analysis of yeast central metabolites. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 665-673.	1.1	94