

# Takuya Matsumoto

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

52  
papers

476  
citations

13  
h-index

20  
g-index

56  
ext. papers

641  
ext. citations

4.3  
avg, IF

4.04  
L-index

#	Paper	IF	Citations
52	Bioengineering for the industrial production of 2,3-butanediol by the yeast, <i>Saccharomyces cerevisiae</i> . <i>World Journal of Microbiology and Biotechnology</i> , <b>2022</b> , 38, 38	4.4	0
51	Stress-transfer analyses in cellulose nanofiber/montmorillonite nanocomposites with X-ray diffraction and chemical interaction between cellulose nanofiber and montmorillonite. <i>Cellulose</i> , <b>2022</b> , 29, 2949	5.5	0
50	Direct conversion of raw wood to TEMPO-oxidized cellulose nanofibers. <i>Carbohydrate Polymers</i> , <b>2021</b> , 262, 117938	10.3	16
49	Improvement of 2,3-butanediol tolerance in <i>Saccharomyces cerevisiae</i> by using a novel mutagenesis strategy. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 131, 283-289	3.3	1
48	Improvement of lactic acid tolerance by cocktail integration strategy and identification of the transcription factor PDR3 responsible for lactic acid tolerance in yeast <i>Saccharomyces cerevisiae</i> . <i>World Journal of Microbiology and Biotechnology</i> , <b>2021</b> , 37, 19	4.4	2
47	Preparation and characterization of cellulose nanofiber cryogels as oil absorbents and enzymatic lipolysis scaffolds. <i>Carbohydrate Research</i> , <b>2020</b> , 493, 108020	2.9	2
46	Metabolic engineering of <i>E. coli</i> for improving mevalonate production to promote NADPH regeneration and enhance acetyl-CoA supply. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2153-2164	4.9	9
45	Effect of Solvent Combination on Electrospun Stereocomplex Polylactic Acid Nanofiber Properties. <i>Macromolecular Symposia</i> , <b>2020</b> , 391, 1900134	0.8	3
44	Construction of yeast producing patchoulol by global metabolic engineering strategy. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1348-1356	4.9	8
43	Construction of lactic acid-tolerant <i>Saccharomyces cerevisiae</i> by using CRISPR-Cas-mediated genome evolution for efficient D-lactic acid production. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 9147-9158	5.7	8
42	Identification of genes responsible for reducing palladium ion in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , <b>2020</b> , 324, 7-10	3.7	1
41	Structural deformation of elastic polythiophene with disiloxane moieties under stretching. <i>Polymer Journal</i> , <b>2020</b> , 52, 1273-1278	2.7	1
40	Butyralization of poly(vinyl alcohol) under supercritical carbon dioxide for a humidity-resistant adhesive to glass substrates. <i>Polymer Journal</i> , <b>2020</b> , 52, 1349-1356	2.7	1
39	Surface Modification and Adhesion Mechanism of Polypropylene with Low-Energy Electron-Beam Treatments. <i>Langmuir</i> , <b>2020</b> , 36, 10846-10852	4	4
38	N-linked glycosylation of thermostable lipase from <i>Bacillus thermocatenulatus</i> to improve organic solvent stability. <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 132, 109416	3.8	8
37	n-Butylamine production from glucose using a transaminase-mediated synthetic pathway in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2020</b> , 129, 99-103	3.3	0
36	Formal preparation of regioregular and alternating thiophene-thiophene copolymers bearing different substituents. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 317-324	2.5	2

35	Organogelators of 5,17-Difunctionalized Calix[4]arenes. <i>Chemistry Letters</i> , <b>2019</b> , 48, 43-46	1.7	2
34	Surface Modification of Poly(ether ether ketone) through Friedel-Crafts Reaction for High Adhesion Strength. <i>Langmuir</i> , <b>2019</b> , 35, 9761-9768	4	4
33	Modification of lipase from <i>Candida cylindracea</i> with dextran using the borane-pyridine complex to improve organic solvent stability. <i>Journal of Biotechnology</i> , <b>2019</b> , 296, 1-6	3.7	8
32	Chemical treatments for modification and immobilization to improve the solvent-stability of lipase. <i>World Journal of Microbiology and Biotechnology</i> , <b>2019</b> , 35, 193	4.4	10
31	Improvement of the organic solvent stability of a commercial lipase by chemical modification with dextran. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 142, 1-6	4.2	11
30	Fabrication and characterization of elastomeric semiconductive thiophene polymers by peroxide crosslinking. <i>Polymer Journal</i> , <b>2019</b> , 51, 257-263	2.7	7
29	Tuned Surface and Mechanical Properties of Polymeric Film Prepared by Random Copolymers Consisting of Methacrylate-POSS and 2-(Methacryloyloxy)ethyl Phosphorylcholine. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1700572	2.6	6
28	Synthesis of furan dimer-based polyamides with a high melting point. <i>Journal of Polymer Science Part A</i> , <b>2018</b> , 56, 1516-1519	2.5	15
27	Acrylic pressure-sensitive adhesives with nanodiamonds and acidBase dependence of the pressure-sensitive adhesive properties. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46349	2.9	4
26	Enhancement of adhesion by applying amine primer to isotactic polypropylene and open time dependence of primer effect. <i>International Journal of Adhesion and Adhesives</i> , <b>2018</b> , 84, 173-177	3.4	5
25	Streptavidin-hydrogel prepared by sortase A-assisted click chemistry for enzyme immobilization on an electrode. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 56-61	11.8	13
24	Sortase A-Assisted Metabolic Enzyme Ligation in <i>Escherichia coli</i> for Enhancing Metabolic Flux. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1772, 125-136	1.4	1
23	On-demand easy peeling of acrylic adhesives containing ionic liquids through a microwave irradiation stimulus. <i>Polymer Journal</i> , <b>2018</b> , 50, 1051-1056	2.7	2
22	Mechanical and thermal properties of cellulose nanofiber composites with nanodiamond as nanocarbon filler. <i>Nanocomposites</i> , <b>2018</b> , 4, 127-136	3.4	8
21	Cellulose nanofiber nanocomposites with aligned silver nanoparticles. <i>Nanocomposites</i> , <b>2018</b> , 4, 167-177	3.4	13
20	Enhancing 3-hydroxypropionic acid production in combination with sugar supply engineering by cell surface-display and metabolic engineering of <i>Schizosaccharomyces pombe</i> . <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 176	6.4	12
19	Collagen/Cellulose Nanofiber Blend Scaffolds Prepared at Various pH Conditions.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1362-1368	4.1	6
18	Engineering metabolic pathways in <i>Escherichia coli</i> for constructing a "microbial chassis" for biochemical production. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1362-1368	11	35

17	1,5-Diaminopentane production from xylooligosaccharides using metabolically engineered <i>Corynebacterium glutamicum</i> displaying beta-xylosidase on the cell surface. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1684-1691	11	32
16	Metabolic engineering of via CRISPR-Cas9 genome editing for lactic acid production from glucose and cellobiose. <i>Metabolic Engineering Communications</i> , <b>2017</b> , 5, 60-67	6.5	15
15	Mechanical, Thermal, and Electrical Properties of Flexible Polythiophene with Disiloxane Side Chains. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1700197	2.6	20
14	Preparation of Furan Dimer-based Biopolyester Showing High Melting Points. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1535-1538	1.7	18
13	2,3-Butanediol production from cellobiose using exogenous beta-glucosidase-expressing <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 5781-9	5.7	8
12	Improvement of ectoine productivity by using sugar transporter-overexpressing <i>Halomonas elongata</i> . <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 89, 63-8	3.8	15
11	Twiggged streptavidin polymer as a scaffold for protein assembly. <i>Journal of Biotechnology</i> , <b>2016</b> , 225, 61-6	3.7	8
10	Sortase A-Mediated Metabolic Enzyme Ligation in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 1284-1289	3.7	8
9	Secretory production of tetrameric native full-length streptavidin with thermostability using <i>Streptomyces lividans</i> as a host. <i>Microbial Cell Factories</i> , <b>2015</b> , 14, 5	6.4	3
8	Multi-functional glycoside hydrolase: Blon_0625 from <i>Bifidobacterium longum</i> subsp. <i>infantis</i> ATCC 15697. <i>Enzyme and Microbial Technology</i> , <b>2015</b> , 68, 10-4	3.8	7
7	C-Terminal-oriented Immobilization of Enzymes Using Sortase A-mediated Technique. <i>Macromolecular Bioscience</i> , <b>2015</b> , 15, 1375-80	5.5	7
6	Starchy biomass-powered enzymatic biofuel cell based on amylases and glucose oxidase multi-immobilized bioanode. <i>New Biotechnology</i> , <b>2013</b> , 30, 531-5	6.4	19
5	Two-Stage Oxidation of Glucose by an Enzymatic Bioanode. <i>Fuel Cells</i> , <b>2013</b> , 13, 960-964	2.9	8
4	Sortase A-catalyzed site-specific coimmobilization on microparticles via streptavidin. <i>Langmuir</i> , <b>2012</b> , 28, 3553-7	4	25
3	Site-specific protein labeling with amine-containing molecules using <i>Lactobacillus plantarum</i> sortase. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 642-8	5.6	16
2	Enzyme-mediated methodologies for protein modification and bioconjugate synthesis. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 1137-46	5.6	21
1	Site-specific tetrameric streptavidin-protein conjugation using sortase A. <i>Journal of Biotechnology</i> , <b>2011</b> , 152, 37-42	3.7	17