

# Hideo Kawaguchi

## 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.

64

papers

2,700

citations

26

h-index

51

g-index

65

ext. papers

3,010

ext. citations

5.5

avg, IF

4.93

L-index

#	Paper	IF	Citations
64	Recent advances in lignocellulosic biomass white biotechnology for bioplastics. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126165	11	3
63	Direct conversion of raw wood to TEMPO-oxidized cellulose nanofibers. <i>Carbohydrate Polymers</i> , <b>2021</b> , 262, 117938	10.3	16
62	Advances in metabolic engineering of <i>Corynebacterium glutamicum</i> to produce high-value active ingredients for food, feed, human health, and well-being. <i>Essays in Biochemistry</i> , <b>2021</b> , 65, 197-212	7.6	14
61	Ultrahigh Thermoresistant Lightweight Bioplastics Developed from Fermentation Products of Cellulosic Feedstock. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2000193	5.9	7
60	The dominance model for heterosis explains culm length genetics in a hybrid sorghum variety. <i>Scientific Reports</i> , <b>2021</b> , 11, 4532	4.9	5
59	Accelerated glucose metabolism in hyphae-dispersed <i>Aspergillus oryzae</i> is suitable for biological production. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 132, 140-147	3.3	2
58	Enhanced production of amino acid 3-amino-4-hydroxybenzoic acid by recombinant <i>Corynebacterium glutamicum</i> under oxygen limitation.. <i>Microbial Cell Factories</i> , <b>2021</b> , 20, 228	6.4	
57	Automatic Redirection of Carbon Flux between Glycolysis and Pentose Phosphate Pathway Using an Oxygen-Responsive Metabolic Switch in. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 814-826	5.7	14
56	Complete and Draft Genome Sequences of Amino Acid-Producing <i>Corynebacterium glutamicum</i> Strains ATCC 21799 and ATCC 31831 and Their Genomic Islands. <i>Microbiology Resource Announcements</i> , <b>2020</b> , 9,	1.3	1
55	Enhanced Phenyllactic Acid Production in <i>Escherichia coli</i> Via Oxygen Limitation and Shikimate Pathway Gene Expression. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800478	5.6	11
54	Effective usage of sorghum bagasse: Optimization of organosolv pretreatment using 25% 1-butanol and subsequent nanofiltration membrane separation. <i>Bioresource Technology</i> , <b>2018</b> , 252, 157-164	11.4	26
53	Metabolic engineering of <i>Corynebacterium glutamicum</i> for production of sunscreen shinorine. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2018</b> , 82, 1252-1259	2.1	10
52	Repeated ethanol fermentation from membrane-concentrated sweet sorghum juice using the flocculating yeast <i>Saccharomyces cerevisiae</i> F118 strain. <i>Bioresource Technology</i> , <b>2018</b> , 265, 542-547	11	8
51	Metabolome analysis-based design and engineering of a metabolic pathway in <i>Corynebacterium glutamicum</i> to match rates of simultaneous utilization of D-glucose and L-arabinose. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 76	6.4	15
50	Mathematical Model for Small Size Time Series Data of Bacterial Secondary Metabolic Pathways. <i>Bioinformatics and Biology Insights</i> , <b>2018</b> , 12, 1177932218775076	5.3	1
49	Caffeic acid production by simultaneous saccharification and fermentation of kraft pulp using recombinant <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 5279-5290	5.7	27
48	Differences in glucose yield of residues from among varieties of rice, wheat, and sorghum after dilute acid pretreatment. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2017</b> , 81, 1650-1656	2.1	2

47	Sucrose purification and repeated ethanol production from sugars remaining in sweet sorghum juice subjected to a membrane separation process. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 6007-6014	5.7	8
46	Microbial conversion of biomass into bio-based polymers. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1664-1673	11	76
45	Organosolv pretreatment of sorghum bagasse using a low concentration of hydrophobic solvents such as 1-butanol or 1-pentanol. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 27	7.8	45
44	FudC, a protein primarily responsible for furfural detoxification in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 2685-92	5.7	14
43	Characterization of cellulose nanofiber sheets from different refining processes. <i>Cellulose</i> , <b>2016</b> , 23, 403-414	5.5	33
42	Natural variation in the glucose content of dilute sulfuric acid-pretreated rice straw liquid hydrolysates: implications for bioethanol production. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2016</b> , 80, 863-9	2.1	3
41	Bioprocessing of bio-based chemicals produced from lignocellulosic feedstocks. <i>Current Opinion in Biotechnology</i> , <b>2016</b> , 42, 30-39	11.4	153
40	Nanofiltration concentration of extracellular glutathione produced by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 121, 96-100	3.3	5
39	Engineering cell factories for producing building block chemicals for bio-polymer synthesis. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 19	6.4	58
38	Precipitate obtained following membrane separation of hydrothermally pretreated rice straw liquid revealed by 2D NMR to have high lignin content. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 88	7.8	20
37	Repeated ethanol production from sweet sorghum juice concentrated by membrane separation. <i>Bioresource Technology</i> , <b>2015</b> , 186, 351-355	11	17
36	3-Amino-4-hydroxybenzoic acid production from sweet sorghum juice by recombinant <i>Corynebacterium glutamicum</i> . <i>Bioresource Technology</i> , <b>2015</b> , 198, 410-7	11	23
35	Phenyllactic acid production by simultaneous saccharification and fermentation of pretreated sorghum bagasse. <i>Bioresource Technology</i> , <b>2015</b> , 182, 169-178	11	24
34	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D 1H-13C NMR. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128417	3.7	21
33	Two-step production of D-lactate from mixed sugars by growing and resting cells of metabolically engineered <i>Lactobacillus plantarum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 4911-8	5.7	19
32	Simultaneous saccharification and fermentation of kraft pulp by recombinant <i>Escherichia coli</i> for phenyllactic acid production. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 88, 188-194	4.2	36
31	Increased ethanol production from sweet sorghum juice concentrated by a membrane separation process. <i>Bioresource Technology</i> , <b>2014</b> , 169, 821-825	11	14
30	Bio-electrochemical property and phylogenetic diversity of microbial communities associated with bioelectrodes of an electromethanogenic reactor. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 116, 114-7	3.3	33

29	Bio-electrochemical conversion of carbon dioxide to methane in geological storage reservoirs. <i>Energy Conversion and Management</i> , <b>2013</b> , 66, 343-350	10.6	48
28	A thermophilic gram-negative nitrate-reducing bacterium, <i>Calditerrivibrio nitroreducens</i> , exhibiting electricity generation capability. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 12583-90	10.3	49
27	Electrochemical and phylogenetic analyses of current-generating microorganisms in a thermophilic microbial fuel cell. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 115, 268-71	3.3	16
26	Identification of New Microbial Mediators for Electromethanogenic Reduction of Geologically-stored Carbon Dioxide. <i>Energy Procedia</i> , <b>2013</b> , 37, 7006-7013	2.3	8
25	Mechanism of Electromethanogenic Reduction of CO <sub>2</sub> by a Thermophilic Methanogen. <i>Energy Procedia</i> , <b>2013</b> , 37, 7021-7028	2.3	25
24	Electromethanogenic CO <sub>2</sub> Conversion by Subsurface-reservoir Microorganisms. <i>Energy Procedia</i> , <b>2013</b> , 37, 7014-7020	2.3	17
23	Analysis of methane production by microorganisms indigenous to a depleted oil reservoir for application in Microbial Enhanced Oil Recovery. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 84-7 <sup>3</sup> 3	3.3	30
22	Phylogenetic diversity of microbial communities associated with the crude-oil, large-insoluble-particle and formation-water components of the reservoir fluid from a non-flooded high-temperature petroleum reservoir. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 204-10	3.3	58
21	Metabolic engineering of hydrophobic <i>Rhodococcus opacus</i> for biodesulfurization in oil-water biphasic reaction mixtures. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 360-6	3.3	20
20	Dissolved organic compounds in reused process water for steam-assisted gravity drainage oil sands extraction. <i>Water Research</i> , <b>2012</b> , 46, 5566-5574	12.5	26
19	Research for Microbial Conversion of Residual Oil into Methane in Depleted Oil Fields to Develop New EOR Process <b>2010</b> ,		4
18	Methane production by <i>Methanothermobacter thermautotrophicus</i> to recover energy from carbon dioxide sequestered in geological reservoirs. <i>Journal of Bioscience and Bioengineering</i> , <b>2010</b> , 110, 106-8	3.3	12
17	Identification and functional analysis of the gene cluster for L-arabinose utilization in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 3419-29	4.8	61
16	Engineering of pentose transport in <i>Corynebacterium glutamicum</i> to improve simultaneous utilization of mixed sugars. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 85, 105-15	5.7	90
15	Engineering of an L-arabinose metabolic pathway in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 77, 1053-62	5.7	118
14	Effect of lignocellulose-derived inhibitors on growth of and ethanol production by growth-arrested <i>Corynebacterium glutamicum</i> R. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2349-53	4.8	131
13	Efficient induction of formate hydrogen lyase of aerobically grown <i>Escherichia coli</i> in a three-step biohydrogen production process. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 74, 754-60	5.7	42
12	Effect of Lignocellulose-Derived Inhibitors on Growth of and Ethanol Production by Growth-Arrested <i>Corynebacterium glutamicum</i> R. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6328-6328	4.8	1

11	Enhanced hydrogen production from glucose using ldh- and frd-inactivated Escherichia coli strains. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 73, 67-72	5.7	115
10	Engineering of a xylose metabolic pathway in Corynebacterium glutamicum. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 3418-28	4.8	193
9	Enhanced Hydrogen Production from Formic Acid by Formate Hydrogen Lyase-Overexpressing Escherichia coli Strains. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 1716-1716	4.8	2
8	Enhanced hydrogen production from formic acid by formate hydrogen lyase-overexpressing Escherichia coli strains. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6762-8	4.8	180
7	Metabolic analysis of Corynebacterium glutamicum during lactate and succinate productions under oxygen deprivation conditions. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2004</b> , 7, 182-96	0.9	291
6	Metabolic engineering of Corynebacterium glutamicum for fuel ethanol production under oxygen-deprivation conditions. <i>Journal of Molecular Microbiology and Biotechnology</i> , <b>2004</b> , 8, 243-54	0.9	243
5	Effect of algal extract on H <sub>2</sub> production by a photosynthetic bacterium Rhodobium marinum A-501: analysis of stimulating effect using a kinetic model. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 62-69	3.3	4
4	Effect of algal extract on H <sub>2</sub> production by a photosynthetic bacterium Rhodobium marinum A-501: analysis of stimulating effect using a kinetic model. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 62-9	3.3	
3	H <sub>2</sub> production from algal biomass by a mixed culture of Rhodobium marinum A-501 and Lactobacillus amylovorus. <i>Journal of Bioscience and Bioengineering</i> , <b>2001</b> , 91, 277-282	3.3	77
2	H <sub>2</sub> production from algal biomass by a mixed culture of Rhodobium marinum A-501 and Lactobacillus amylovorus. <i>Journal of Bioscience and Bioengineering</i> , <b>2001</b> , 91, 277-82	3.3	18
1	Photoproduction of hydrogen from raw starch using a halophilic bacterial community. <i>Journal of Bioscience and Bioengineering</i> , <b>1999</b> , 88, 72-7	3.3	57