

# Hee Taek Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,254  
citations

361413

20  
h-index

454955

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the microbial production of C4 alcohols by metabolically engineered microorganisms. <i>Biotechnology Journal</i> , 2022, 17, e2000451.	3.5	5
2	Recent progress and challenges in biological degradation and biotechnological valorization of lignin as an emerging source of bioenergy: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112025.	16.4	32
3	Development of a bio-chemical route to C5 plasticizer synthesis using glutaric acid produced by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Green Chemistry</i> , 2022, 24, 1590-1602.	9.0	6
4	Gamma aminobutyric acid (GABA) production in <i>Escherichia coli</i> with pyridoxal kinase (pdxY) based regeneration system. <i>Enzyme and Microbial Technology</i> , 2022, 155, 109994.	3.2	16
5	Microbial production of 2-pyrone-4,6-dicarboxylic acid from lignin derivatives in an engineered <i>Pseudomonas putida</i> and its application for the synthesis of bio-based polyester. <i>Bioresource Technology</i> , 2022, 352, 127106.	9.6	15
6	Development of a glutaric acid production system equipped with stepwise feeding of monosodium glutamate by whole-cell bioconversion. <i>Enzyme and Microbial Technology</i> , 2022, 159, 110053.	3.2	3
7	One-Pot Chemo-bioprocess of PET Depolymerization and Recycling Enabled by a Biocompatible Catalyst, Betaine. <i>ACS Catalysis</i> , 2021, 11, 3996-4008.	11.2	58
8	Recent progress in metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of C4, C5, and C6 chemicals. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1291-1307.	2.7	6
9	Biosynthesis of polyhydroxyalkanoates from sugarcane molasses by recombinant <i>Ralstonia eutropha</i> strains. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1452-1459.	2.7	15
10	Chemo-Biological Upcycling of Poly(ethylene terephthalate) to Multifunctional Coating Materials. <i>ChemSusChem</i> , 2021, 14, 4251-4259.	6.8	36
11	Improving the organic solvent resistance of lipase a from <i>Bacillus subtilis</i> in water-ethanol solvent through rational surface engineering. <i>Bioresource Technology</i> , 2021, 337, 125394.	9.6	11
12	Chemoautotroph <i>Cupriavidus necator</i> as a potential game-changer for global warming and plastic waste problem: A review. <i>Bioresource Technology</i> , 2021, 340, 125693.	9.6	50
13	Fermentative High-Level Production of 5-Hydroxyvaleric Acid by Metabolically Engineered <i>Corynebacterium glutamicum</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2523-2533.	6.7	21
14	Metabolic engineering for the synthesis of polyesters: A 100-year journey from polyhydroxyalkanoates to non-natural microbial polyesters. <i>Metabolic Engineering</i> , 2020, 58, 47-81.	7.0	138
15	Development of Metabolically Engineered <i>Corynebacterium glutamicum</i> for Enhanced Production of Cadaverine and Its Use for the Synthesis of Bio-Polyamide 510. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 129-138.	6.7	23
16	Recent Advances in Systems Metabolic Engineering Strategies for the Production of Biopolymers. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 848-861.	2.6	21
17	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. <i>Biotechnology Journal</i> , 2020, 15, e1900489.	3.5	92
18	Biosynthesis of polyhydroxyalkanoates from sucrose by metabolically engineered <i>Escherichia coli</i> strains. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 593-599.	7.5	30

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19	A chemo-microbial hybrid process for the production of 2-pyrone-4,6-dicarboxylic acid as a promising bioplastic monomer from PET waste. <i>Green Chemistry</i> , 2020, 22, 3461-3469.	9.0	36
20	Metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of glutaric acid, a C5 dicarboxylic acid platform chemical. <i>Metabolic Engineering</i> , 2019, 51, 99-109.	7.0	50
21	High-Level Conversion of l-lysine into Cadaverine by <i>Escherichia coli</i> Whole Cell Biocatalyst Expressing <i>Hafnia alvei</i> l-lysine Decarboxylase. <i>Polymers</i> , 2019, 11, 1184.	4.5	21
22	Biological Valorization of Poly(ethylene terephthalate) Monomers for Upcycling Waste PET. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19396-19406.	6.7	141
23	Recent Advances in the Metabolic Engineering of <i>Klebsiella pneumoniae</i> : A Potential Platform Microorganism for Biorefineries. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 48-64.	2.6	34
24	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for the High-Level Production of Cadaverine That Can Be Used for the Synthesis of Biopolyamide 510. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5296-5305.	6.7	83
25	Metabolic engineering of <i>Corynebacterium glutamicum</i> for fermentative production of chemicals in biorefinery. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3915-3937.	3.6	60
26	Construction of a <i>Vitreoscilla</i> Hemoglobin Promoter-Based Tunable Expression System for <i>Corynebacterium glutamicum</i> . <i>Catalysts</i> , 2018, 8, 561.	3.5	10
27	Enhanced production of gamma-aminobutyrate (GABA) in recombinant <i>Corynebacterium glutamicum</i> strains from empty fruit bunch biosugar solution. <i>Microbial Cell Factories</i> , 2018, 17, 129.	4.0	42
28	Recent advances in metabolic engineering of <i>Corynebacterium glutamicum</i> as a potential platform microorganism for biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 899-925.	3.7	34
29	Pretreatment and saccharification of red macroalgae to produce fermentable sugars. <i>Bioresource Technology</i> , 2016, 199, 311-318.	9.6	87
30	A Novel Agarolytic $\beta$ -Galactosidase Acts on Agarooligosaccharides for Complete Hydrolysis of Agarose into Monomers. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5965-5973.	3.1	78