

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 | Biological Valorization of Poly(ethylene terephthalate) Monomers for Upcycling Waste PET. ACS Sustainable Chemistry and Engineering, 2019, 7, 19396-19406. | 6.7 | 141 |
| 2 | Metabolic engineering for the synthesis of polyesters: A 100-year journey from polyhydroxyalkanoates to non-natural microbial polyesters. Metabolic Engineering, 2020, 58, 47-81. | 7.0 | 138 |
| 3 | Recent Advances in Sustainable Plastic Upcycling and Biopolymers. Biotechnology Journal, 2020, 15, e1900489. | 3.5 | 92 |
| 4 | Pretreatment and saccharification of red macroalgae to produce fermentable sugars. Bioresource Technology, 2016, 199, 311-318. | 9.6 | 87 |
| 5 | Metabolic Engineering of <i>Corynebacterium glutamicum</i> for the High-Level Production of Cadaverine That Can Be Used for the Synthesis of Biopolyamide 510. ACS Sustainable Chemistry and Engineering, 2018, 6, 5296-5305. | 6.7 | 83 |
| 6 | A Novel Agarolytic β -Galactosidase Acts on Agarooligosaccharides for Complete Hydrolysis of Agarose into Monomers. Applied and Environmental Microbiology, 2014, 80, 5965-5973. | 3.1 | 78 |
| 7 | Metabolic engineering of <i>Corynebacterium glutamicum</i> for fermentative production of chemicals in biorefinery. Applied Microbiology and Biotechnology, 2018, 102, 3915-3937. | 3.6 | 60 |
| 8 | One-Pot Chemo-bioprocess of PET Depolymerization and Recycling Enabled by a Biocompatible Catalyst, Betaine. ACS Catalysis, 2021, 11, 3996-4008. | 11.2 | 58 |
| 9 | Metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of glutaric acid, a C5 dicarboxylic acid platform chemical. Metabolic Engineering, 2019, 51, 99-109. | 7.0 | 50 |
| 10 | Chemoautotroph <i>Cupriavidus necator</i> as a potential game-changer for global warming and plastic waste problem: A review. Bioresource Technology, 2021, 340, 125693. | 9.6 | 50 |
| 11 | Enhanced production of gamma-aminobutyrate (GABA) in recombinant <i>Corynebacterium glutamicum</i> strains from empty fruit bunch biosugar solution. Microbial Cell Factories, 2018, 17, 129. | 4.0 | 42 |
| 12 | A chemo-microbial hybrid process for the production of 2-pyrone-4,6-dicarboxylic acid as a promising bioplastic monomer from PET waste. Green Chemistry, 2020, 22, 3461-3469. | 9.0 | 36 |
| 13 | Chemo-Biological Upcycling of Poly(ethylene terephthalate) to Multifunctional Coating Materials. ChemSusChem, 2021, 14, 4251-4259. | 6.8 | 36 |
| 14 | Recent advances in metabolic engineering of <i>Corynebacterium glutamicum</i> as a potential platform microorganism for biorefinery. Biofuels, Bioproducts and Biorefining, 2018, 12, 899-925. | 3.7 | 34 |
| 15 | Recent Advances in the Metabolic Engineering of <i>Klebsiella pneumoniae</i> : A Potential Platform Microorganism for Biorefineries. Biotechnology and Bioprocess Engineering, 2019, 24, 48-64. | 2.6 | 34 |
| 16 | Recent progress and challenges in biological degradation and biotechnological valorization of lignin as an emerging source of bioenergy: A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2022, 157, 112025. | 16.4 | 32 |
| 17 | Biosynthesis of polyhydroxyalkanoates from sucrose by metabolically engineered <i>Escherichia coli</i> strains. International Journal of Biological Macromolecules, 2020, 149, 593-599. | 7.5 | 30 |
| 18 | Development of Metabolically Engineered <i>Corynebacterium glutamicum</i> for Enhanced Production of Cadaverine and Its Use for the Synthesis of Bio-Polyamide 510. ACS Sustainable Chemistry and Engineering, 2020, 8, 129-138. | 6.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 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 | 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 |
| 28 | 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 |
| 29 | Recent advances in the microbial production of C4 alcohols by metabolically engineered microorganisms. <i>Biotechnology Journal</i> , 2022, 17, e2000451. | 3.5 | 5 |
| 30 | 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 |