Pingkai Ouyang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Production of liquid hydrocarbon fuels with acetoin and platform molecules derived from lignocellulose. Green Chemistry, 2016, 18, 2165-2174.	4.6	67
2	An efficient enzymatic production of N-acetyl- <scp>d</scp> -glucosamine from crude chitin powders. Green Chemistry, 2016, 18, 2147-2154.	4.6	63
3	Enzymatic hydrolysis of chitin pretreated by bacterial fermentation to obtain pure <i>N</i> -acetyl- <scp>d</scp> -glucosamine. Green Chemistry, 2018, 20, 2320-2327.	4.6	63
4	Enhancement in the aromatic yield from the catalytic fast pyrolysis of rice straw over hexadecyl trimethyl ammonium bromide modified hierarchical HZSM-5. Bioresource Technology, 2018, 256, 241-246.	4.8	60
5	Enhancing the performance of Escherichia coli-inoculated microbial fuel cells by introduction of the phenazine-1-carboxylic acid pathway. Journal of Biotechnology, 2018, 275, 1-6.	1.9	58
6	Imidodiphosphoric acid as a bifunctional catalyst for the controlled ring-opening polymerization of δ-valerolactone and ε-caprolactone. Polymer Chemistry, 2013, 4, 5432.	1.9	51
7	Enzymatic production of N -acetyl- d -glucosamine from crayfish shell wastes pretreated via high pressure homogenization. Carbohydrate Polymers, 2017, 171, 236-241.	5.1	48
8	Synthesis of rebaudioside D, using glycosyltransferase UGTSL2 and in situ UDP-glucose regeneration. Food Chemistry, 2018, 259, 286-291.	4.2	45
9	Cuâ^'Ni Bimetallic Hydroxide Catalyst for Efficient Electrochemical Conversion of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemElectroChem, 2019, 6, 5797-5801.	1.7	45
10	Histidine-Rich Cell-Penetrating Peptide for Cancer Drug Delivery and Its Uptake Mechanism. Langmuir, 2019, 35, 3513-3523.	1.6	45
11	Enhanced succinic acid production from corncob hydrolysate by microbial electrolysis cells. Bioresource Technology, 2016, 202, 152-157.	4.8	44
12	Confinement of Ultrasmall Cobalt Oxide Clusters within Silicalite-1 Crystals for Efficient Conversion of Fructose into Methyl Lactate. ACS Catalysis, 2019, 9, 1923-1930.	5.5	39
13	An enzyme–copper nanoparticle hybrid catalyst prepared from disassembly of an enzyme–inorganic nanocrystal three-dimensional nanostructure. RSC Advances, 2016, 6, 20772-20776.	1.7	36
14	A Novel Process for Cadaverine Bio-Production Using a Consortium of Two Engineered Escherichia coli. Frontiers in Microbiology, 2018, 9, 1312.	1.5	34
15	d-1,2,4-Butanetriol production from renewable biomass with optimization of synthetic pathway in engineered Escherichia coli. Bioresource Technology, 2018, 250, 406-412.	4.8	33
16	Production of Rebaudioside A from Stevioside Catalyzed by the Engineered Saccharomyces cerevisiae. Applied Biochemistry and Biotechnology, 2016, 178, 1586-1598.	1.4	32
17	Improved photocatalytic activity and mechanism of Cu2O/N–TiO2 prepared by a two-step method. RSC Advances, 2014, 4, 17797.	1.7	31
18	Catalytic <i>In Situ</i> Hydrogenation of Fatty Acids into Fatty Alcohols over Cu-Based Catalysts with Methanol in Hydrothermal Media. Energy & Fuels, 2017, 31, 12624-12632.	2.5	29

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19	Enhanced oral bioavailability of lurasidone by self-nanoemulsifying drug delivery system in fasted state. Drug Development and Industrial Pharmacy, 2016, 42, 1234-1240.	0.9	28
20	Direct electron uptake from a cathode using the inward Mtr pathway in Escherichia coli. Bioelectrochemistry, 2020, 134, 107498.	2.4	28
21	Production of rebaudioside D from stevioside using a UGTSL2 Asn358Phe mutant in a multiâ€enzyme system. Microbial Biotechnology, 2020, 13, 974-983.	2.0	28
22	Synthesis and discovery of andrographolide derivatives as non-steroidal farnesoid X receptor (FXR) antagonists. RSC Advances, 2014, 4, 13533-13545.	1.7	25
23	Direct Production of Aviation Fuel Range Hydrocarbons and Aromatics from Oleic Acid without an Added Hydrogen Donor. Energy & Fuels, 2016, 30, 7291-7297.	2.5	25
24	Carbocation Organocatalysis in Interrupted Povarov Reactions to <i>cis</i> â€Fused Pyrano―and Furanobenzodihydropyrans. European Journal of Organic Chemistry, 2017, 2017, 3996-4003.	1.2	25
25	<scp>d</scp> -Tagatose manufacture through bio-oxidation of galactitol derived from waste xylose mother liquor. Green Chemistry, 2018, 20, 2382-2391.	4.6	25
26	SAR studies of 3,14,19-derivatives of andrographolide on anti-proliferative activity to cancer cells and toxicity to zebrafish: an in vitro and in vivo study. RSC Advances, 2015, 5, 22510-22526.	1.7	24
27	Methanol fermentation increases the production of NAD(P)H-dependent chemicals in synthetic methylotrophic Escherichia coli. Biotechnology for Biofuels, 2019, 12, 17.	6.2	24
28	<i>N</i> -heterocyclic carbenes as organocatalysts in controlled/living ring-opening polymerization of <i>O</i> -carboxyanhydrides derived from <scp>l</scp> <i>-</i> lactic acid and <scp>l</scp> <i>-</i> mandelic acid. Journal of Polymer Science Part A, 2014, 52, 2306-2315.	2.5	23
29	Enhanced succinic acid production from polyacrylamideâ€pretreated cane molasses in microbial electrolysis cells. Journal of Chemical Technology and Biotechnology, 2018, 93, 855-860.	1.6	23
30	Regulation of ATP levels in Escherichia coli using CRISPR interference for enhanced pinocembrin production. Microbial Cell Factories, 2018, 17, 147.	1.9	23
31	Flame Retardancy and Mechanical Properties of Bioâ€Based Furan Epoxy Resins with High Crosslink Density. Macromolecular Materials and Engineering, 2020, 305, 1900587.	1.7	23
32	Improved pinocembrin production in <i>Escherichia coli</i> by engineering fatty acid synthesis. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 557-566.	1.4	22
33	Efficient Biofilm-Based Fermentation Strategies for L-Threonine Production by Escherichia coli. Frontiers in Microbiology, 2019, 10, 1773.	1.5	22
34	Role of Solvent in Catalytic Conversion of Oleic Acid to Aviation Biofuels. Energy & Fuels, 2017, 31, 6163-6172.	2.5	21
35	Towards acetone-uncoupled biofuels production in solventogenic Clostridium through reducing power conservation. Metabolic Engineering, 2018, 47, 102-112.	3.6	21
36	Efficient chemo-enzymatic synthesis of endomorphin-1 using organic solvent stable proteases to green the synthesis of the peptide. Green Chemistry, 2011, 13, 1680.	4.6	20

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37	Directed evolution and mutagenesis of lysine decarboxylase from Hafnia alvei AS1.1009 to improve its activity toward efficient cadaverine production. Biotechnology and Bioprocess Engineering, 2015, 20, 439-446.	1.4	20
38	Enhanced succinic acid production under acidic conditions by introduction of glutamate decarboxylase system in E. coli AFP111. Bioprocess and Biosystems Engineering, 2017, 40, 549-557.	1.7	20
39	Cadaverine Production From L-Lysine With Chitin-Binding Protein-Mediated Lysine Decarboxylase Immobilization. Frontiers in Bioengineering and Biotechnology, 2020, 8, 103.	2.0	20
40	Succinic acid production from hemicellulose hydrolysate by an Escherichia coli mutant obtained by atmospheric and room temperature plasma and adaptive evolution. Enzyme and Microbial Technology, 2014, 66, 10-15.	1.6	19
41	CaCl ₂ molten salt hydrate-promoted conversion of carbohydrates to 5-hydroxymethylfurfural: an experimental and theoretical study. Green Chemistry, 2021, 23, 2058-2068.	4.6	19
42	The influence of the NCO/OH ratio and the 1,6-hexanediol/dimethylol propionic acid molar ratio on the properties of waterborne polyurethane dispersions based on 1,5-pentamethylene diisocyanate. Frontiers of Chemical Science and Engineering, 2019, 13, 80-89.	2.3	18
43	Efficient enzymatic hydrolysis of chitin into <i>N</i> -acetyl glucosamine using alkali as a recyclable pretreatment reagent. Green Chemistry, 2021, 23, 3081-3089.	4.6	18
44	Encapsulation of enzymes in metal ion–surfactant nanocomposites for catalysis in highly polar solvents. Chemical Communications, 2017, 53, 3134-3137.	2.2	17
45	Catalytic Fast Pyrolysis of Rice Straw to Aromatics over Hierarchical HZSM-5 Treated with Different Organosilanes. Energy & Fuels, 2019, 33, 307-312.	2.5	17
46	Characterization of a novel N-acetylneuraminic acid lyase favoring industrial N-acetylneuraminic acid synthesis process. Scientific Reports, 2015, 5, 9341.	1.6	16
47	Identification, characterization and HPLC quantification of process-related impurities in Trelagliptin succinate bulk drug: Six identified as new compounds. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 18-27.	1.4	16
48	High-yield production of D-1,2,4-butanetriol from lignocellulose-derived xylose by using a synthetic enzyme cascade in a cell-free system. Journal of Biotechnology, 2019, 292, 76-83.	1.9	16
49	Artificial Nanometalloenzymes for Cooperative Tandem Catalysis. ACS Applied Materials & Interfaces, 2019, 11, 15718-15726.	4.0	16
50	Design of intelligent chitosan/heparin hollow microcapsules for drug delivery. Journal of Applied Polymer Science, 2017, 134, .	1.3	15
51	Coproduction of succinic acid and cadaverine using lysine as a neutralizer and CO ₂ donor with <scp>l</scp> -lysine decarboxylase overexpressed <i>Escherichia coli</i> AFP111. Green Chemistry, 2018, 20, 2880-2887.	4.6	15
52	Light Signaling Regulates Aspergillus niger Biofilm Formation by Affecting Melanin and Extracellular Polysaccharide Biosynthesis. MBio, 2021, 12, .	1.8	15
53	Tofu processing wastewater as a low-cost substrate for high activity nattokinase production using Bacillus subtilis. BMC Biotechnology, 2021, 21, 57.	1.7	15
54	A fusion protein strategy for soluble expression of Stevia glycosyltransferase UGT76G1 in Escherichia coli. 3 Biotech, 2017, 7, 356.	1.1	14

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55	Highly active nanobiocatalysis in deep eutectic solvents via metal-driven enzyme-surfactant nanocomposite. Journal of Biotechnology, 2019, 292, 39-49.	1.9	14
56	Engineering a Microbial Consortium Based Whole-Cell System for Efficient Production of Glutarate From L-Lysine. Frontiers in Microbiology, 2019, 10, 341.	1.5	14
57	Methanol Assimilation with CO ₂ Reduction in <i>Butyribacterium methylotrophicum</i> and Development of Genetic Toolkits for Its Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 12079-12090.	3.2	14
58	Process optimization for enhancing production of cis-4-hydroxy-l-proline by engineered Escherichia coli. Microbial Cell Factories, 2017, 16, 210.	1.9	13
59	A novel bacterial β-N-acetyl glucosaminidase from Chitinolyticbacter meiyuanensis possessing transglycosylation and reverse hydrolysis activities. Biotechnology for Biofuels, 2020, 13, 115.	6.2	13
60	Efficient carbon dioxide utilization and simultaneous hydrogen enrichment from off-gas of acetone–butanol–ethanol fermentation by succinic acid producing Escherichia coli. Bioresource Technology, 2016, 214, 861-865.	4.8	12
61	Structural elucidation of the impurities in Enzalutamide bulk drug and the development, validation of corresponding HPLC method. Journal of Pharmaceutical and Biomedical Analysis, 2016, 131, 436-443.	1.4	12
62	Efficient production of d-1,2,4-butanetriol from d-xylose by engineered Escherichia coli whole-cell biocatalysts. Frontiers of Chemical Science and Engineering, 2018, 12, 772-779.	2.3	11
63	Engineering of lysine cyclodeaminase conformational dynamics for relieving substrate and product inhibitions in the biosynthesis of <scp>l</scp> -pipecolic acid. Catalysis Science and Technology, 2019, 9, 398-405.	2.1	11
64	Efficient Biofilm-Based Fermentation Strategies by eDNA Formation for <scp>l</scp> -Proline Production with <i>Corynebacterium glutamicum</i> . ACS Omega, 2020, 5, 33314-33322.	1.6	11
65	Nonsterile <scp>l</scp> -Lysine Fermentation Using Engineered Phosphite-Grown <i>Corynebacterium glutamicum</i> . ACS Omega, 2021, 6, 10160-10167.	1.6	11
66	Engineered cytidine triphosphate synthetase with reduced product inhibition. Protein Engineering, Design and Selection, 2014, 27, 225-233.	1.0	10
67	Enhancement of l-phenylalanine production by engineered Escherichia coli using phased exponential l-tyrosine feeding combined with nitrogen source optimization. Journal of Bioscience and Bioengineering, 2015, 120, 36-40.	1.1	10
68	Algorithm, applications and evaluation for protein comparison by Ramanujan Fourier transform. Molecular and Cellular Probes, 2015, 29, 396-407.	0.9	10
69	Potential industrial application of Actinobacillus succinogenes NJ113 for pyruvic acid production by microaerobic fermentation. Korean Journal of Chemical Engineering, 2016, 33, 2908-2914.	1.2	10
70	Preparation of High Purity Lactide Using a High-Boiling-Point Alcohol Immobilization Method. Industrial & Engineering Chemistry Research, 2018, 57, 7711-7716.	1.8	10
71	Construction of an Electron Transfer Mediator Pathway for Bioelectrosynthesis by Escherichia coli. Frontiers in Bioengineering and Biotechnology, 2020, 8, 590667.	2.0	10
72	Preparation of 3-aceta mido-5-acetylfuran from <i>N</i> deep eutectic solvents as catalysts. Reaction Chemistry and Engineering, 2022, 7, 1742-1749.	1.9	10

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73	Efficient Synthesis of 2â€Arylâ€1â€arylmethylâ€1 <i>H</i> â€benzimidazoles in Ball Mill without Solvent. Journal of Heterocyclic Chemistry, 2014, 51, 1838-1843.	1.4	9
74	Efficient Production of Enantiopure d-Lysine from l-Lysine by a Two-Enzyme Cascade System. Catalysts, 2016, 6, 168.	1.6	9
75	Chiral Separation and Thermodynamic Investigation of Ezetimibe Optical Isomers on a Chiralpak IC Column. Journal of Chromatographic Science, 2016, 54, 1489-1494.	0.7	9
76	Controlled heparinase atalyzed degradation of polyelectrolyte multilayer capsules with heparin as responsive layer. Journal of Applied Polymer Science, 2017, 134, .	1.3	9
77	Phospholipase D encapsulated into metal-surfactant nanocapsules for enhancing biocatalysis in a two-phase system. RSC Advances, 2019, 9, 6548-6555.	1.7	9
78	Properties of Polyvinyl Alcohol Films Composited With Hemicellulose and Nanocellulose Extracted From Artemisia selengensis Straw. Frontiers in Bioengineering and Biotechnology, 2020, 8, 980.	2.0	9
79	Bioconversion of Stevioside to Rebaudioside E Using Glycosyltransferase UGTSL2. Applied Biochemistry and Biotechnology, 2021, 193, 637-649.	1.4	9
80	Complete genome sequence of a malodorant-producing acetogen, Clostridium scatologenes ATCC 25775T. Journal of Biotechnology, 2015, 212, 19-20.	1.9	8
81	Improved S-adenosyl-I-methionine production in Saccharomyces cerevisiae using tofu yellow serofluid. Journal of Biotechnology, 2020, 309, 100-106.	1.9	8
82	Co-expression of phosphoenolpyruvate carboxykinase and nicotinic acid phosphoribosyltransferase for succinate production in engineered Escherichia coli. Enzyme and Microbial Technology, 2014, 56, 8-14.	1.6	7
83	Preparation and evaluation of ziprasidone–phospholipid complex from sustained-release pellet formulation with enhanced bioavailability and no food effect. Journal of Pharmacy and Pharmacology, 2016, 68, 185-194.	1.2	7
84	Ameliorating end-product inhibition to improve cadaverine production in engineered Escherichia coli and its application in the synthesis of bio-based diisocyanates. Synthetic and Systems Biotechnology, 2021, 6, 243-253.	1.8	7
85	Synthesis, Monomer Removal, Modification, and Coating Performances of Biobased Pentamethylene Diisocyanate Isocyanurate Trimers. Industrial & Engineering Chemistry Research, 2022, 61, 2403-2416.	1.8	7
86	Study of Metabolic Profile of Rhizopus oryzae to Enhance Fumaric Acid Production Under Low pH Condition. Applied Biochemistry and Biotechnology, 2015, 177, 1508-1519.	1.4	6
87	Isolation and Structural Elucidation of Palbociclib's Eight Process-Related Impurities: Two Identified as New Compounds. Journal of AOAC INTERNATIONAL, 2016, 99, 638-648.	0.7	6
88	Studies of lysine cyclodeaminase from Streptomyces pristinaespiralis: Insights into the complex transition NAD+ state. Biochemical and Biophysical Research Communications, 2018, 495, 306-311.	1.0	6
89	Dehydration of saccharides to anhydro-sugars in dioxane: effect of reactants, acidic strength and water removal in situ. Cellulose, 2020, 27, 9825-9838.	2.4	6
90	A novel degradable injectable HLC-HPA hydrogel with anti-inflammatory activity for biomedical materials: Preparation, characterization, in vivo and in vitro evaluation. Science China Technological Sciences, 2020, 63, 2449-2463.	2.0	6

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91	Enhancement of succinic acid production by osmotic-tolerant mutant strain of Actinobacillus succinogenes. World Journal of Microbiology and Biotechnology, 2011, 27, 3009-3013.	1.7	5
92	Quantitative analysis of ripasudil hydrochloride hydrate and its impurities by reversedâ€phase highâ€performance liquid chromatography after precolumn derivatization: Identification of four impurities. Journal of Separation Science, 2016, 39, 3302-3310.	1.3	5
93	High-yield production of mannitol by Leuconostoc pseudomesenteroides CTCC G123 from chicory-derived inulin hydrolysate. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1237-1244.	1.4	5
94	Enhanced production of exopolysaccharides using industrial grade starch as sole carbon source. Bioprocess and Biosystems Engineering, 2018, 41, 811-817.	1.7	5
95	PEGylated Triacontanol Substantially Enhanced the Pharmacokinetics of Triacontanol in Rats. Journal of Agricultural and Food Chemistry, 2018, 66, 8722-8728.	2.4	5
96	Separation of 5â€aminovalerate from its bioconversion liquid by macroporous adsorption resin: mechanism and dynamic separation. Journal of Chemical Technology and Biotechnology, 2020, 95, 686-693.	1.6	5
97	Combination of ARTP mutagenesis and color-mediated high-throughput screening to enhance 1-naphthol yield from microbial oxidation of naphthalene in aqueous system. Frontiers of Chemical Science and Engineering, 2020, 14, 793-801.	2.3	5
98	Enhanced Cadaverine Production by Engineered Escherichia coli Using Soybean Residue Hydrolysate (SRH) as a Sole Nitrogen Source. Applied Biochemistry and Biotechnology, 2021, 193, 533-543.	1.4	5
99	The Biosynthesis of D-1,2,4-Butanetriol From d-Arabinose With an Engineered Escherichia coli. Frontiers in Bioengineering and Biotechnology, 2022, 10, 844517.	2.0	5
100	Enhancing l-Lysine Production of Beet Molasses by Engineered Escherichia coli Using an In Situ Pretreatment Method. Applied Biochemistry and Biotechnology, 2016, 179, 986-996.	1.4	4
101	Alkaline Modification of a Metal–Enzyme–Surfactant Nanocomposite to Enhance the Production of L-α-glycerylphosphorylcholine. Catalysts, 2019, 9, 237.	1.6	4
102	The Draft Genome Sequence and Analysis of an Efficiently Chitinolytic Bacterium Chitinibacter sp. Strain GC72. Current Microbiology, 2020, 77, 3903-3908.	1.0	4
103	Biosynthesis of cis-3-hydroxypipecolic acid from L-lysine using an in vivo dual-enzyme cascade. Enzyme and Microbial Technology, 2022, 154, 109958.	1.6	4
104	Property and Function of a Novel Chitinase Containing Dual Catalytic Domains Capable of Converting Chitin Into N-Acetyl-D-Glucosamine. Frontiers in Microbiology, 2022, 13, 790301.	1.5	4
105	Determination of Clevidipine and Its Primary Metabolite in Rat Plasma by a Dispersive Liquid–Liquid Microextraction Method. Journal of Chromatographic Science, 2015, 53, 830-835.	0.7	3
106	Conversion of <i>N</i> â€Acetylâ€Dâ€glucosamine into 3â€Acetamidoâ€5â€acetylfuran Using Cheap Ammonium Chloride as Catalyst. ChemistrySelect, 2022, 7, .	0.7	3
107	Sustainable separation of bio-based cadaverine based on carbon dioxide capture by forming carbamate. RSC Advances, 2020, 10, 44728-44735.	1.7	2
108	Application of sugar-containing biomass: one-step synthesis of 2-furylglyoxylic acid and its derivatives from a vitamin C precursor. Green Chemistry, 2022, 24, 2000-2009.	4.6	2

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109	Selection of Payloads for Antibody–Drug Conjugates Targeting Ubiquitously Expressed Tumor-Associated Antigens: a Case Study. AAPS Journal, 2022, 24, .	2.2	2
110	Highly Efficient Extracellular Production of Recombinant Streptomyces PMF Phospholipase D in Escherichia coli. Catalysts, 2020, 10, 1057.	1.6	1
111	Constructing a multienzyme cascade redox-neutral system for the synthesis of halogenated indoles. Chemical Communications, 2022, 58, 6016-6019.	2.2	1
112	Pharmacokinetics of cligosiban in dog plasma after oral administration by liquid chromatography electrospray ionization tandem mass spectrometry. Biomedical Chromatography, 2019, 33, e4611.	0.8	0
113	Drifts in N-Linked Glycosylation Result in ADCC Potency Variation of Perjeta® from August 2020 to October 2021 in China. BioMed Research International, 2022, 2022, 1-13.	0.9	0