Eun Yeol Lee

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#	Paper	IF	Citations
177	An integrated rotary microfluidic system with DNA extraction, loop-mediated isothermal amplification, and lateral flow strip based detection for point-of-care pathogen diagnostics. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 334-340	11.8	137
176	Fermentative hydrogen production by a new chemoheterotrophic bacterium Rhodopseudomonas Palustris P4. <i>International Journal of Hydrogen Energy</i> , 2002 , 27, 1373-1379	6.7	115
175	Chemo-enzymatic saccharification and bioethanol fermentation of lipid-extracted residual biomass of the microalga, Dunaliella tertiolecta. <i>Bioresource Technology</i> , 2013 , 132, 197-201	11	111
174	Alginate lyase: Structure, property, and application. <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 843-851	3.1	108
173	New fluorescent chemosensors for silver ion. <i>Journal of Organic Chemistry</i> , 2002 , 67, 4384-6	4.2	86
172	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. <i>Bioresource Technology</i> , 2015 , 177, 361-74	11	81
171	Molecular engineering of epoxide hydrolase and its application to asymmetric and enantioconvergent hydrolysis. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 318-27	4.9	78
170	Sustainable production of bioethanol from renewable brown algae biomass. <i>Biomass and Bioenergy</i> , 2016 , 92, 70-75	5.3	77
169	Pyrolysis of microalgae residual biomass derived from Dunaliella tertiolecta after lipid extraction and carbohydrate saccharification. <i>Chemical Engineering Journal</i> , 2015 , 263, 194-199	14.7	76
168	Bioethanol production from carbohydrate-enriched residual biomass obtained after lipid extraction of Chlorella sp. KR-1. <i>Bioresource Technology</i> , 2015 , 196, 22-7	11	74
167	Sustainable production of liquid biofuels from renewable microalgae biomass. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 29, 24-31	6.3	73
166	Cloning and characterization of a novel oligoalginate lyase from a newly isolated bacterium Sphingomonas sp. MJ-3. <i>Marine Biotechnology</i> , 2012 , 14, 189-202	3.4	73
165	Stabilization and fabrication of microbubbles: applications for medical purposes and functional materials. <i>Soft Matter</i> , 2015 , 11, 2067-79	3.6	71
164	Cloning and characterization of alginate lyase from a marine bacterium Streptomyces sp. ALG-5. <i>Marine Biotechnology</i> , 2009 , 11, 10-6	3.4	62
163	Systematic metabolic engineering of Methylomicrobium alcaliphilum 20Z for 2,3-butanediol production from methane. <i>Metabolic Engineering</i> , 2018 , 47, 323-333	9.7	61
162	Nano-Immobilized Biocatalysts for Biodiesel Production from Renewable and Sustainable Resources. <i>Catalysts</i> , 2018 , 8, 68	4	61
161	Biosynthesis of glycerol carbonate from glycerol by lipase in dimethyl carbonate as the solvent. Bioprocess and Biosystems Engineering, 2010, 33, 1059-65	3.7	61

(2015-2013)

160	Highly efficient extraction and lipase-catalyzed transesterification of triglycerides from Chlorella sp. KR-1 for production of biodiesel. <i>Bioresource Technology</i> , 2013 , 147, 240-245	11	59
159	Molecular cloning, purification, and characterization of a novel polyMG-specific alginate lyase responsible for alginate MG block degradation in Stenotrophomas maltophilia KJ-2. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 1643-53	5.7	54
158	Biocatalytic conversion of methane to methanol as a key step for development of methane-based biorefineries. <i>Journal of Microbiology and Biotechnology</i> , 2014 , 24, 1597-605	3.3	54
157	Synthesis of hybrid Fe(3)O(4)-silica-NiO superstructures and their application as magnetically separable high-performance biocatalysts. <i>Chemical Communications</i> , 2009 , 3780-2	5.8	51
156	Pyrolysis characteristics and kinetics of microalgal Aurantiochytrium sp. KRS101. <i>Energy</i> , 2017 , 118, 369	- 3 756	50
155	Batch conversion of methane to methanol using Methylosinus trichosporium OB3b as biocatalyst. Journal of Microbiology and Biotechnology, 2015 , 25, 375-80	3.3	50
154	Gas chromatography-mass spectrometric analysis and its application to a screening procedure for novel bacterial polyhydroxyalkanoic acids containing long chain saturated and unsaturated monomers. <i>Journal of Bioscience and Bioengineering</i> , 1995 , 80, 408-414		47
153	Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria. <i>Applied Microbiology and Biotechnology</i> , 1994 , 40, 710-716	5.7	46
152	Kinetics study of the hydrothermal liquefaction of the microalga Aurantiochytrium sp. KRS101. <i>Chemical Engineering Journal</i> , 2016 , 306, 763-771	14.7	46
151	Kinetic resolution for optically active epoxides by microbial enantioselective hydrolysis. <i>Biotechnology Letters</i> , 1998 , 12, 225-228		45
150	Highly efficient bioconversion of methane to methanol using a novel type I Methylomonas sp. DH-1 newly isolated from brewery waste sludge. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 311-318	3.5	43
149	Point-of-care genetic analysis for multiplex pathogenic bacteria on a fully integrated centrifugal microdevice with a large-volume sample. <i>Biosensors and Bioelectronics</i> , 2019 , 136, 132-139	11.8	43
148	Effect of internal pressure and gas/liquid interface area on the CO mass transfer coefficient using hollow fibre membranes as a high mass transfer gas diffusing system for microbial syngas fermentation. <i>Bioresource Technology</i> , 2014 , 169, 637-643	11	43
147	Bio- and chemo-catalytic preparations of chiral epoxides. <i>Journal of Industrial and Engineering Chemistry</i> , 2010 , 16, 1-6	6.3	43
146	Harvesting of microalgae using flocculation combined with dissolved air flotation. <i>Biotechnology and Bioprocess Engineering</i> , 2014 , 19, 143-149	3.1	42
145	Functional cooperation of the glycine synthase-reductase and Wood-Ljungdahl pathways for autotrophic growth of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7516-7523	11.5	41
144	Nucleic acid diagnostics on the total integrated lab-on-a-disc for point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111466	11.8	40
143	Preparation of biopolyol by liquefaction of palm kernel cake using PEG#400 blended glycerol. Journal of Industrial and Engineering Chemistry, 2015, 29, 304-313	6.3	40

142	Lipase-catalyzed simultaneous biosynthesis of biodiesel and glycerol carbonate from corn oil in dimethyl carbonate. <i>Biotechnology Letters</i> , 2011 , 33, 1789-96	3	40
141	Smooth muscle-like tissues engineered with bone marrow stromal cells. <i>Biomaterials</i> , 2004 , 25, 2979-86	5 15.6	40
140	Development of a high-throughput centrifugal loop-mediated isothermal amplification microdevice for multiplex foodborne pathogenic bacteria detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 146-153	8.5	39
139	Saccharification of alginate by using exolytic oligoalginate lyase from marine bacterium Sphingomonas sp. MJ-3. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 853-858	6.3	39
138	Metabolic engineering of methanotrophs and its application to production of chemicals and biofuels from methane. <i>Biofuels, Bioproducts and Biorefining</i> , 2016 , 10, 848-863	5.3	39
137	Dimethyl carbonate-mediated lipid extraction and lipase-catalyzed in situ transesterification for simultaneous preparation of fatty acid methyl esters and glycerol carbonate from Chlorella sp. KR-1 biomass. <i>Bioresource Technology</i> , 2014 , 158, 105-10	11	37
136	Biological conversion of methane to chemicals and fuels: technical challenges and issues. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3071-3080	5.7	33
135	Lipase-catalyzed in-situ biosynthesis of glycerol-free biodiesel from heterotrophic microalgae, Aurantiochytrium sp. KRS101 biomass. <i>Bioresource Technology</i> , 2016 , 211, 472-7	11	33
134	Epoxide hydrolase-mediated enantioconvergent bioconversions to prepare chiral epoxides and alcohols. <i>Biotechnology Letters</i> , 2008 , 30, 1509-14	3	32
133	A general reaction network and kinetic model of the hydrothermal liquefaction of microalgae Tetraselmis sp. <i>Bioresource Technology</i> , 2017 , 241, 610-619	11	31
132	Molecular identification of a polyM-specific alginate lyase from Pseudomonas sp. strain KS-408 for degradation of glycosidic linkages between two mannuronates or mannuronate and guluronate in alginate. <i>Canadian Journal of Microbiology</i> , 2011 , 57, 1032-41	3.2	30
131	Glycosylation of various flavonoids by recombinant oleandomycin glycosyltransferase from Streptomyces antibioticus in batch and repeated batch modes. <i>Biotechnology Letters</i> , 2012 , 34, 499-505	53	29
130	Production of (S)-styrene oxide by recombinant Pichia pastoris containing epoxide hydrolase from Rhodotorula glutinis. <i>Enzyme and Microbial Technology</i> , 2004 , 35, 624-631	3.8	29
129	Valorization of industrial lignin to value-added chemicals by chemical depolymerization and biological conversion. <i>Industrial Crops and Products</i> , 2021 , 161, 113219	5.9	29
128	Solvothermal liquefaction of microalgal Tetraselmis sp. biomass to prepare biopolyols by using PEG#400-blended glycerol. <i>Algal Research</i> , 2015 , 12, 539-544	5	26
127	Mesoporous silica-coated luminescent Eu3+ doped GdVO4 nanoparticles for multimodal imaging and drug delivery. <i>RSC Advances</i> , 2014 , 4, 45687-45695	3.7	26
126	Metabolic engineering of the type I methanotroph Methylomonas sp. DH-1 for production of succinate from methane. <i>Metabolic Engineering</i> , 2019 , 54, 170-179	9.7	25
125	Growth of Silver Nanowires from Controlled Silver Chloride Seeds and Their Application for Fluorescence Enhancement Based on Localized Surface Plasmon Resonance. <i>Small</i> , 2017 , 13, 1603392	11	24

124	Enhanced production of cis,cis-muconate in a cell-recycle bioreactor. <i>Journal of Bioscience and Bioengineering</i> , 1997 , 84, 70-76		24	
123	A comparative transcriptome analysis of the novel obligate methanotroph Methylomonas sp. DH-1 reveals key differences in transcriptional responses in C1 and secondary metabolite pathways during growth on methane and methanol. <i>BMC Genomics</i> , 2019 , 20, 130	4.5	23	
122	Enhanced stability and reusability of marine epoxide hydrolase using ship-in-a-bottle approach with magnetically-separable mesoporous silica. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 89, 48-51		23	
121	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by newly isolated Agrobacterium sp. SH-1 and GW-014 from structurally unrelated single carbon substrates. <i>Journal of Bioscience and Bioengineering</i> , 1995 , 79, 328-334		23	
120	Gas-liquid mass transfer coefficient of methane in bubble column reactor. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 1060-1063	2.8	22	
119	Crude glycerol-mediated liquefaction of empty fruit bunches saccharification residues for preparation of biopolyurethane. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 34, 157-164	6.3	22	
118	Enantioselective epoxide hydrolase activity of a newly isolated microorganism, Sphingomonas echinoides EH-983, from seawater. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006 , 41, 130-135		22	
117	Review on lignin modifications toward natural UV protection ingredient for lignin-based sunscreens. <i>Green Chemistry</i> , 2021 , 23, 4633-4646	10	22	
116	Characteristics of Reduced Graphene Oxide Quantum Dots for a Flexible Memory Thin Film Transistor. <i>ACS Applied Materials & Data State Sta</i>	9.5	21	
115	Biocatalytic preparation of chiral epichlorohydrins using recombinantPichia pastoris expressing epoxide hydrolase ofRhodotorula glutinis. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 62-64	3.1	21	
114	Genome-scale evaluation of core one-carbon metabolism in gammaproteobacterial methanotrophs grown on methane and methanol. <i>Metabolic Engineering</i> , 2020 , 57, 1-12	9.7	21	
113	Engineered Methanotrophy: A Sustainable Solution for Methane-Based Industrial Biomanufacturing. <i>Trends in Biotechnology</i> , 2021 , 39, 381-396	15.1	21	
112	Environmentally-Benign Dimethyl Carbonate-Mediated Production of Chemicals and Biofuels from Renewable Bio-Oil. <i>Energies</i> , 2017 , 10, 1790	3.1	20	
111	Spray pyrolysis synthesis of bimetallic NiMo/Al2O3IIiO2 catalyst for hydrodeoxygenation of guaiacol: Effects of bimetallic composition and reduction temperature. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 351-358	6.3	20	
110	Low-cost and facile fabrication of a paper-based capillary electrophoresis microdevice for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 388-392	11.8	19	
109	Flavonoids, terpenoids, and polyketide antibiotics: Role of glycosylation and biocatalytic tactics in engineering glycosylation. <i>Biotechnology Advances</i> , 2020 , 41, 107550	17.8	19	
108	Crude glycerol-mediated liquefaction of saccharification residues of sunflower stalks for production of lignin biopolyols. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 38, 175-180	6.3	19	
107	Biological conversion of methane to putrescine using genome-scale model-guided metabolic engineering of a methanotrophic bacterium 20Z. <i>Biotechnology for Biofuels</i> , 2019 , 12, 147	7.8	19	

106	Efficient production of d-lactate from methane in a lactate-tolerant strain of sp. DH-1 generated by adaptive laboratory evolution. <i>Biotechnology for Biofuels</i> , 2019 , 12, 234	7.8	19
105	Heterologous expression of an alginate lyase from Streptomyces sp. ALG-5 in Escherichia coli and its use for preparation of the magnetic nanoparticle-immobilized enzymes. <i>Bioprocess and Biosystems Engineering</i> , 2011 , 34, 113-9	3.7	19
104	Cloning and characterization of a fish microsomal epoxide hydrolase of Danio rerio and application to kinetic resolution of racemic styrene oxide. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 37, 30-	35	19
103	Integrating cell-free biosyntheses of heme prosthetic group and apoenzyme for the synthesis of functional P450 monooxygenase. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1193-200	4.9	18
102	Functional Analysis of Methylomonas sp. DH-1 Genome as a Promising Biocatalyst for Bioconversion of Methane to Valuable Chemicals. <i>Catalysts</i> , 2018 , 8, 117	4	18
101	Cloning, expression and enantioselective hydrolytic catalysis of a microsomal epoxide hydrolase from a marine fish, Mugil cephalus. <i>Biotechnology Letters</i> , 2007 , 29, 237-46	3	17
100	Production of (S)-styrene oxide using styrene oxide isomerase negative mutant of Pseudomonas putida SN1. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 1264-1269	3.8	17
99	Selective bio-oxidation of propane to acetone using methane-oxidizing Methylomonas sp.IDH-1. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 1097-1105	4.2	16
98	Phosphoric acid enhancement in a Pt-encapsulated Metal-Organic Framework (MOF) bifunctional catalyst for efficient hydro-deoxygenation of oleic acid from biomass. <i>Journal of Catalysis</i> , 2020 , 386, 19-29	7.3	16
97	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. Journal of Molecular Liquids, 2016 , 215, 154-160	6	16
96	Structural identification of polyhydroxyalkanoic acid (PHA) containing 4-hydroxyalkanoic acids by gas chromatography-mass spectrometry (GC-MS) and its application to bacteria screening. <i>Biotechnology Letters</i> , 1997 , 11, 167-171		16
95	Development and characterization of recombinant whole-cell biocatalysts expressing epoxide hydrolase from Rhodotorula glutinis for enantioselective resolution of racemic epoxides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006 , 43, 2-8		16
94	Developments of Riboswitches and Toehold Switches for Molecular Detection-Biosensing and Molecular Diagnostics. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
93	Metabolic engineering of type II methanotroph, Methylosinus trichosporium OB3b, for production of 3-hydroxypropionic acid from methane via a malonyl-CoA reductase-dependent pathway. <i>Metabolic Engineering</i> , 2020 , 59, 142-150	9.7	15
92	Rapid and high-throughput construction of microbial cell-factories with regulatory noncoding RNAs. <i>Biotechnology Advances</i> , 2015 , 33, 914-30	17.8	15
91	Evaluation of composts as biofilter packing material for treatment of gaseous p-xylene. <i>Biochemical Engineering Journal</i> , 2007 , 35, 142-149	4.2	15
90	Screening enantioselective epoxide hydrolase activities from marine microorganisms: detection of activities in Erythrobacter spp. <i>Marine Biotechnology</i> , 2008 , 10, 366-73	3.4	15
89	Bioconversion of methane to cadaverine and lysine using an engineered type II methanotroph, Methylosinus trichosporium OB3b. <i>Green Chemistry</i> , 2020 , 22, 7803-7811	10	15

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88	Unlocking the biosynthesis of sesquiterpenoids from methane via the methylerythritol phosphate pathway in methanotrophic bacteria, using #humulene as a model compound. <i>Metabolic Engineering</i> , 2020 , 61, 69-78	9.7	14
87	Liquefaction of Red Pine Wood, Pinus densiflora, Biomass Using Peg-400-Blended Crude Glycerol for Biopolyol and Biopolyurethane Production. <i>Journal of Wood Chemistry and Technology</i> , 2016 , 36, 353-364	2	14
86	Alginate derived functional oligosaccharides: Recent developments, barriers, and future outlooks. <i>Carbohydrate Polymers</i> , 2021 , 267, 118158	10.3	14
85	One-pot biotransformation of racemic styrene oxide into (R)-1,2-phenylethandiol by two recombinant microbial epoxide hydrolases. <i>Biotechnology and Bioprocess Engineering</i> , 2008 , 13, 453-457	73.1	13
84	Reconstruction of methanol and formate metabolic pathway in non-native host for biosynthesis of chemicals and biofuels. <i>Biotechnology and Bioprocess Engineering</i> , 2016 , 21, 477-482	3.1	13
83	Isolation, identification and characterization of marine bacteria exhibiting complementary enantioselective epoxide hydrolase activity for preparing chiral chlorinated styrene oxide derivatives. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 28, 225-228	6.3	12
82	Enhanced mass transfer rate of methane via hollow fiber membrane modules for Methylosinus trichosporium OB3b fermentation. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 39, 149-152	6.3	12
81	Biobutanediol-mediated liquefaction of empty fruit bunch saccharification residues to prepare lignin biopolyols. <i>Bioresource Technology</i> , 2016 , 208, 24-30	11	12
80	Biodegradation of gas-phase styrene in a high-performance biotrickling filter using porous polyurethane foam as a packing medium. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 512-519	3.1	12
79	Development of recombinantPseudomonas putida containing homologous styrene monooxygenase genes for the production of (S)-styrene oxide. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 530-537	3.1	12
78	Chemical Modification of Methanol-Insoluble Kraft Lignin Using Oxypropylation Under Mild Conditions for the Preparation of Bio-Polyester. <i>Journal of Wood Chemistry and Technology</i> , 2017 , 37, 334-342	2	11
77	Epoxidation of Methanol-Soluble Kraft Lignin for Lignin-Derived Epoxy Resin and Its Usage in the Preparation of Biopolyester. <i>Journal of Wood Chemistry and Technology</i> , 2017 , 37, 433-442	2	11
76	Degradation of styrene by a new isolatePseudomonas putida SN1. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 418-424	2.8	11
75	An efficient cell-free protein synthesis system using periplasmic phosphatase-removed S30 extract. Journal of Microbiological Methods, 2000 , 43, 91-6	2.8	11
74	Techno-economic analysis of sugar production from lignocellulosic biomass with utilization of hemicellulose and lignin for high-value co-products. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 404-	45135	11
73	Molecular characterization of a novel oligoalginate lyase consisting of AlgL- and heparinase II/III-like domains from Stenotrophomonas maltophilia KJ-2 and its application to alginate saccharification. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 917-924	2.8	10
72	Site-Directed Mutagenesis-Based Functional Analysis and Characterization of Endolytic Lyase Activity of N- and C-Terminal Domains of a Novel Oligoalginate Lyase from Sphingomonas sp. MJ-3 Possessing Exolytic Lyase Activity in the Intact Enzyme. <i>Marine Biotechnology</i> , 2015 , 17, 782-92	3.4	10
71	Metabolic versatility of microbial methane oxidation for biocatalytic methane conversion. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 35, 8-13	6.3	10

70	Identification and characterization of epoxide hydrolase activity of polycyclic aromatic hydrocarbon-degrading bacteria for biocatalytic resolution of racemic styrene oxide and styrene oxide derivatives. <i>Biotechnology Letters</i> , 2013 , 35, 599-606	3	10
69	Purification and characterization of a recombinantCaulobacter crescentus epoxide hydrolase. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 282-287	3.1	10
68	Development and mathematical modeling of a two-stage reactor system for trichloroethylene degradation using Methylosinus trichosporium OB3b. <i>Biodegradation</i> , 2007 , 18, 91-101	4.1	10
67	Screening of the strictly xylose-utilizing Bacillus sp. SM01 for polyhydroxybutyrate and its co-culture with Cupriavidus necator NCIMB 11599 for enhanced production of PHB. <i>International Journal of Biological Macromolecules</i> , 2021 , 181, 410-417	7.9	10
66	Genome-Scale Metabolic Model Reconstruction and in Silico Investigations of Methane Metabolism in OB3b. <i>Microorganisms</i> , 2020 , 8,	4.9	10
65	Bioproduction of Isoprenoids and Other Secondary Metabolites Using Methanotrophic Bacteria as an Alternative Microbial Cell Factory Option: Current Stage and Future Aspects. <i>Catalysts</i> , 2019 , 9, 883	4	9
64	Purification and characterization of human caseinomacropeptide produced by a recombinant Saccharomyces cerevisiae. <i>Protein Expression and Purification</i> , 2005 , 41, 441-6	2	9
63	Ulva lactuca: A potential seaweed for tumor treatment and immune stimulation. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 236-238	3.1	9
62	Kinetic analysis of the effect of cell density on hybridoma cell growth in batch culture. <i>Biotechnology and Bioprocess Engineering</i> , 2002 , 7, 117-120	3.1	9
61	Enantioselective hydrolysis of racemic styrene oxide by epoxide hydrolase ofRhodosporidium kratochvilovae SYU-08. <i>Biotechnology and Bioprocess Engineering</i> , 2003 , 8, 306-308	3.1	9
60	Green Preparation of Bioplastics Based on Degradation and Chemical Modification of Lignin Residue. <i>Journal of Wood Chemistry and Technology</i> , 2018 , 38, 460-478	2	9
59	Co-upgrading of ethanol-assisted depolymerized lignin: A new biological lignin valorization approach for the production of protocatechuic acid and polyhydroxyalkanoic acid. <i>Bioresource Technology</i> , 2021 , 338, 125563	11	9
58	Catalytic Hydroisomerization Upgrading of Vegetable Oil-Based Insulating Oil. <i>Catalysts</i> , 2018 , 8, 131	4	8
57	Development and characterization of recombinant whole cells expressing the soluble epoxide hydrolase of Danio rerio and its variant for enantioselective resolution of racemic styrene oxides. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 384-391	6.3	8
56	Glycosyltransferase and its application to glycodiversification of natural products. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 1208-1212	6.3	8
55	Production of human caseinomacropeptide in recombinant Saccharomyces cerevisiae and Pichia pastoris. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005 , 32, 402-8	4.2	8
54	Biological conversion of propane to 2-propanol using group I and II methanotrophs as biocatalysts. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 675-685	4.2	7
53	Controlled hydrogenolysis over heterogeneous catalysts for lignin valorization. <i>Catalysis Reviews - Science and Engineering</i> , 2020 , 62, 607-630	12.6	7

52	Type II methanotrophs: A promising microbial cell-factory platform for bioconversion of methane to chemicals. <i>Biotechnology Advances</i> , 2021 , 47, 107700	17.8	7	
51	Basics of genome-scale metabolic modeling and applications on C1-utilization. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	7	
50	Methane-based biosynthesis of 4-hydroxybutyrate and P(3-hydroxybutyrate-co-4-hydroxybutyrate) using engineered Methylosinus trichosporium OB3b. <i>Bioresource Technology</i> , 2021 , 335, 125263	11	7	
49	Multiple sequence alignment-inspired mutagenesis of marine epoxide hydrolase of Mugil cephalus for enhancing enantioselective hydrolytic activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 72-76	6.3	6	
48	Evaluation of transformation capacity for degradation of ethylene chlorides byMethylosinus trichosporium OB3b. <i>Biotechnology and Bioprocess Engineering</i> , 2003 , 8, 309-312	3.1	6	
47	Simultaneous Production of Transformer Insulating Oil and Value-Added Glycerol Carbonates from Soybean Oil by Lipase-Catalyzed Transesterification in Dimethyl Carbonate. <i>Energies</i> , 2018 , 11, 82	3.1	6	
46	Preparation of Biopolyol from Empty Fruit Bunch Saccharification Residue Using Glycerol and PEG#300-Mediated Liquefaction for Application to Bio-Polyester and Bio-Polyurethane Production. <i>Journal of Wood Chemistry and Technology</i> , 2017 , 37, 283-293	2	5	
45	Tunable three-dimensional graphene assembly architectures through controlled diffusion of aqueous solution from a micro-droplet. <i>NPG Asia Materials</i> , 2016 , 8, e329-e329	10.3	5	
44	Completely Bio-based Polyol Production from Sunflower Stalk Saccharification Lignin Residue via Solvothermal Liquefaction Using Biobutanediol Solvent and Application to Biopolyurethane Synthesis. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3493-3501	4.5	5	
43	Biosynthesis and biotechnological production of degradable polyhydroxyalkanoic acid. <i>Biotechnology and Bioprocess Engineering</i> , 1997 , 2, 1-10	3.1	5	
42	Enhancement ofcis, cis-muconate productivity by overexpression of catechol 1,2-dioxygenase in Pseudomonas putida BCM114. <i>Biotechnology and Bioprocess Engineering</i> , 1998 , 3, 112-114	3.1	5	
41	Cell-recycle fed-batch production of a highly unsaturated polyhydroxyalkanoate from 1,3-butanediol byPseudomonas sp. A33. <i>Journal of Polymers and the Environment</i> , 1996 , 4, 103-112		5	
40	Production of Biopolyols, Bioisocyanates and Biopolyurethanes from Renewable Biomass. <i>Applied Chemistry for Engineering</i> , 2013 , 24, 579-586		5	
39	Development and optimization of solvothermal liquefaction of marine macroalgae Saccharina japonica biomass for biopolyol and biopolyurethane production. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 81, 167-177	6.3	5	
38	Methanotrophic microbial cell factory platform for simultaneous conversion of methane and xylose to value-added chemicals. <i>Chemical Engineering Journal</i> , 2021 , 420, 127632	14.7	5	
37	Development and Optimization of the Biological Conversion of Ethane to Ethanol Using Whole-Cell Methanotrophs Possessing Methane Monooxygenase. <i>Molecules</i> , 2019 , 24,	4.8	4	
36	Functional Characterization of a Novel Oligoalginate Lyase of Stenotrophomonas maltophilia KJ-2 Using Site-Specific Mutation Reveals Bifunctional Mode of Action, Possessing Both Endolytic and Exolytic Degradation Activity Toward Alginate in Seaweed Biomass. <i>Frontiers in Marine Science</i> ,	4.5	4	
35	Thermochemical conversion of red pine wood, Pinus densiflora to biopolyol using biobutanediol-mediated solvolysis for biopolyurethane preparation. <i>Wood Science and Technology</i> , 2018 , 52, 581-596	2.5	4	

34	Identification of 4-Deoxy-L-Etychro-Hexoseulose Uronic Acid Reductases in an Alginolytic Bacterium Vibrio splendidus and their Uses for L-Lactate Production in an Escherichia coli Cell-Free System. <i>Marine Biotechnology</i> , 2018 , 20, 410-423	3.4	4	
33	Biosynthesis of (R)-1,2-phenylethanediol and (R)-4-chloro-1,2-phenylethanediol by using two recombinant cells expressing enantiocomplementary epoxide hydrolases. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 160-164	6.3	4	
32	Molecular cloning and characterization of a novel acetylalginate esterase gene in alg operon from Sphingomonas sp. MJ-3. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2145-54	5.7	4	
31	Nanoimmobilization of marine epoxide hydrolase of Mugil cephalus for repetitive enantioselective resolution of racemic styrene oxide in aqueous buffer. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 2266-71	1.3	4	
30	Biosynthesis of Glycosylated Derivatives of Tylosin in Streptomyces venezuelae. <i>Journal of Microbiology and Biotechnology</i> , 2011 , 21, 613-616	3.3	4	
29	Enhancing Sesquiterpenoid Production from Methane via Synergy of the Methylerythritol Phosphate Pathway and a Short-Cut Route to 1-Deoxy-D-xylulose 5-Phosphate in Methanotrophic Bacteria. <i>Microorganisms</i> , 2021 , 9,	4.9	4	
28	Tightly regulated and high level expression vector construction for Escherichia coli BL21 (DE3). Journal of Industrial and Engineering Chemistry, 2015 , 31, 367-373	6.3	3	
27	Metabolic role of pyrophosphate-linked phosphofructokinase pfk for C1 assimilation in Methylotuvimicrobium alcaliphilum 20Z. <i>Microbial Cell Factories</i> , 2020 , 19, 131	6.4	3	
26	Streamlined cell-free protein synthesis from sequence information. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 1101-1108	3.1	3	
25	Understanding the molecular properties of the E1 subunit (SucA) of Eketoglutarate dehydrogenase complex from Vibrio vulnificus for the enantioselective ligation of acetaldehydes into (R)-acetoin. <i>Catalysis Science and Technology</i> , 2020 , 10, 79-85	5.5	3	
24	Catalytic hydrogenolysis of alkali lignin in supercritical ethanol over copper monometallic catalyst supported on a chromium-based metal-organic framework for the efficient production of aromatic monomers. <i>Bioresource Technology</i> , 2021 , 342, 125941	11	3	
23	Enzymatic synthesis of amentoflavone glycoside using recombinant oleandomycin glycosyltransferase. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 25, 304-307	6.3	2	
22	Characterization of the Two Methylation Steps Involved in the Biosynthesis of Mycinose in Tylosin. Journal of Natural Products, 2016 , 79, 2014-21	4.9	2	
21	Preparation of 11-hexyloxy-9-undecenoic acid from crude castor oil hydrolysates by recombinant Escherichia coli expressing alcohol dehydrogenase and BaeyerVilliger monooxygenase. <i>Process Biochemistry</i> , 2016 , 51, 362-368	4.8	2	
20	Effect of dissolved oxygen concentration on the metabolism of glucose inPseudomonas putida BM014. <i>Biotechnology and Bioprocess Engineering</i> , 1998 , 3, 109-111	3.1	2	
19	Development of cell-free platform-based toehold switch system for detection of IP-10 mRNA, an indicator for acute kidney allograft rejection diagnosis. <i>Clinica Chimica Acta</i> , 2020 , 510, 619-624	6.2	2	
18	Microwave-Assisted Two-Step Liquefaction of Acetone-Soluble Lignin of Silvergrass Saccharification Residue for Production of Biopolyol and Biopolyurethane. <i>Polymers</i> , 2021 , 13,	4.5	2	
17	AcidBase-catalyzed two-step liquefaction of empty fruit bunch lignin residue for preparation of biopolyol and high-performance biopolyurethanes. <i>Wood Science and Technology</i> , 2021 , 55, 315-330	2.5	2	

LIST OF PUBLICATIONS

16	Effect of amino-defective-MOF materials on the selective hydrodeoxygenation of fatty acid over Pt-based catalysts. <i>Journal of Catalysis</i> , 2021 , 400, 283-293	7.3	2
15	Novel phasins from the Arctic Pseudomonas sp. B14-6 enhance the production of polyhydroxybutyrate and increase inhibitor tolerance. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 722-729	7.9	2
14	Controlled hydrodeoxygenation of lignin-derived anisole over supported Pt on UiO-66 based-catalysts through defect engineering approach. <i>Fuel Processing Technology</i> , 2021 , 224, 107001	7.2	2
13	Development of an engineered methanotroph-based microbial platform for biocatalytic conversion of methane to phytohormone for sustainable agriculture. <i>Chemical Engineering Journal</i> , 2022 , 429, 132	5 22 ·7	2
12	An efficient translational termination of human erythropoietin in Escherichia coli by altering the base following the stop codon. <i>Biotechnology Letters</i> , 1999 , 13, 761-764		1
11	Glyoxylate carboligase-based whole-cell biotransformation of formaldehyde into ethylene glycol via glycolaldehyde. <i>Green Chemistry</i> , 2022 , 24, 218-226	10	1
10	Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria 1994 , 40, 710		1
9	Value-added Utilization of Lignin Residue from Pretreatment Process of Lignocellulosic Biomass. <i>Applied Chemistry for Engineering</i> , 2016 , 27, 135-144		1
8	Sustainable biosynthesis of chemicals from methane and glycerol via reconstruction of multi-carbon utilizing pathway in obligate methanotrophic bacteria. <i>Microbial Biotechnology</i> , 2021 , 14, 2552-2565	6.3	1
7	Boosting the acetol production in methanotrophic biocatalyst Methylomonas sp. DH-1 by the coupling activity of heteroexpressed novel protein PmoD with endogenous particulate methane monooxygenase. 2022 , 15, 7		O
6	Biofuel upgrade reactions via phase-transfer catalysis of methanotrophs. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 95, 305-311	6.3	O
5	Bypassing the bottlenecks in the shikimate and methylerythritol phosphate pathways for enhancing the production of natural products from methane in Methylotuvimicrobium alcaliphilum 20Z. <i>Green Chemistry</i> , 2022 , 24, 2893-2903	10	Ο
4	Bio-upgrading of ethanol to fatty acid ethyl esters by metabolic engineering of Pseudomonas putida KT2440 <i>Bioresource Technology</i> , 2022 , 350, 126899	11	0
3	Evaluation of Microbial Epoxide Hydrolase Activity Based on Colorimetric Assay Using 4-(p-nitrobenzyl) Pyridine. <i>Journal of Life Science</i> , 2005 , 15, 332-336		
2	Metabolic Engineering of Methanotrophs for the Production of Chemicals and Fuels. <i>Microbiology Monographs</i> , 2019 , 163-203	0.8	
1	Systems Metabolic Engineering of Methanotrophic Bacteria for Biological Conversion of Methane to Value-Added Compounds <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022 , 1	1.7	