

# Pyung Cheon Lee

## List of Publications by Year in descending order

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86  
papers

3,133  
citations

172457

29  
h-index

161849

54  
g-index

88  
all docs

88  
docs citations

88  
times ranked

3607  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethanol production from marine algal hydrolysates using <i>Escherichia coli</i> KO11. <i>Bioresource Technology</i> , 2011, 102, 7466-7469.	9.6	283
2	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. <i>Biotechnology and Bioengineering</i> , 2001, 72, 41-48.	3.3	254
3	Biosynthesis of plant-specific stilbene polyketides in metabolically engineered <i>Escherichia coli</i> . <i>BMC Biotechnology</i> , 2006, 6, 22.	3.3	162
4	Batch and continuous fermentation of succinic acid from wood hydrolysate by <i>Mannheimia succiniciproducens</i> MBEL55E. <i>Enzyme and Microbial Technology</i> , 2004, 35, 648-653.	3.2	158
5	Exploring Recombinant Flavonoid Biosynthesis in Metabolically Engineered <i>Escherichia coli</i> . <i>ChemBioChem</i> , 2004, 5, 500-507.	2.6	144
6	Succinic acid production by <i>Anaerobiospirillum succiniciproducens</i> : effects of the H <sub>2</sub> /CO <sub>2</sub> supply and glucose concentration. <i>Enzyme and Microbial Technology</i> , 1999, 24, 549-554.	3.2	134
7	Discovery of a Substrate Selectivity Switch in Tyrosine Ammonia-Lyase, a Member of the Aromatic Amino Acid Lyase Family. <i>Chemistry and Biology</i> , 2006, 13, 1317-1326.	6.0	117
8	Metabolic engineering of <i>Pichia pastoris</i> X-33 for lycopene production. <i>Process Biochemistry</i> , 2009, 44, 1095-1102.	3.7	109
9	Production of lactic acid by <i>Lactobacillus rhamnosus</i> with vitamin-supplemented soybean hydrolysate. <i>Enzyme and Microbial Technology</i> , 2000, 26, 209-215.	3.2	107
10	Biosynthesis of Structurally Novel Carotenoids in <i>Escherichia coli</i> . <i>Chemistry and Biology</i> , 2003, 10, 453-462.	6.0	104
11	Proposed cytotoxic mechanisms of the saffron carotenoids crocin and crocetin on cancer cell lines. <i>Biochemistry and Cell Biology</i> , 2014, 92, 105-111.	2.0	69
12	Effects of medium components on the growth of <i>Anaerobiospirillum succiniciproducens</i> and succinic acid production. <i>Process Biochemistry</i> , 1999, 35, 49-55.	3.7	68
13	Fermentative production of succinic acid from glucose and corn steep liquor by <i>Anaerobiospirillum succiniciproducens</i> . <i>Biotechnology and Bioengineering</i> , 2000, 5, 379-381.	2.6	65
14	Investigation of factors influencing production of the monocyclic carotenoid torulene in metabolically engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 538-46.	3.6	61
15	Functional Expression and Extension of Staphylococcal Staphyloxanthin Biosynthetic Pathway in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 21575-21583.	3.4	56
16	Metabolic engineering of menaquinone-8 pathway of <i>Escherichia coli</i> as a microbial platform for vitamin K production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1997-2002.	3.3	54
17	Identification of a Carotenoid Oxygenase Synthesizing Acyclic Xanthophylls. <i>Chemistry and Biology</i> , 2005, 12, 453-460.	6.0	52
18	Redesign and reconstruction of a steviol-biosynthetic pathway for enhanced production of steviol in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2020, 19, 20.	4.0	50

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19	Directed evolution of <i>Escherichia coli</i> farnesyl diphosphate synthase (IspA) reveals novel structural determinants of chain length specificity. <i>Metabolic Engineering</i> , 2005, 7, 18-26.	7.0	49
20	Redesign, Reconstruction, and Directed Extension of the <i>Brevibacterium linens</i> C<sub>40</sub> Carotenoid Pathway in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 5199-5206.	3.1	46
21	Generation of structurally novel short carotenoids and study of their biological activity. <i>Scientific Reports</i> , 2016, 6, 21987.	3.3	45
22	Engineering and application of synthetic nar promoter for fine-tuning the expression of metabolic pathway genes in <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 103.	6.2	45
23	Long-term adaptive evolution of <i>Leuconostoc mesenteroides</i> for enhancement of lactic acid tolerance and production. <i>Biotechnology for Biofuels</i> , 2016, 9, 240.	6.2	41
24	Development of microalga <i>Scenedesmus dimorphus</i> mutant with higher lipid content by radiation breeding. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2437-2444.	3.4	40
25	Heterologous Carotenoid-Biosynthetic Enzymes: Functional Complementation and Effects on Carotenoid Profiles in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 610-618.	3.1	38
26	Kinetic study on succinic acid and acetic acid formation during continuous cultures of <i>Anaerobiospirillum succiniciproducens</i> grown on glycerol. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 465-471.	3.4	36
27	Succinic Acid Production by <i>Anaerobiospirillum succiniciproducens</i> ATCC 29305 Growing on Galactose, Galactose/Glucose, and Galactose/Lactose. <i>Journal of Microbiology and Biotechnology</i> , 2008, 18, 1792-1796.	2.1	33
28	Strain-Dependent Carotenoid Productions in Metabolically Engineered <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 2333-2344.	2.9	31
29	New Insight into the Cleavage Reaction of <i>Nostoc</i> sp. Strain PCC 7120 Carotenoid Cleavage Dioxygenase in Natural and Nonnatural Carotenoids. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3336-3345.	3.1	31
30	Molecular Cloning and Characterization of an Endoxylanase Gene of <i>Bacillus</i> sp. in <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 1998, 22, 599-605.	3.2	28
31	Engineering of a butyraldehyde dehydrogenase of <i>Clostridium saccharoperbutylacetonicum</i> to fit an engineered 1,4-butanediol pathway in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2014, 111, 1374-1384.	3.3	28
32	Optimization of culture medium for enhanced production of exopolysaccharide from <i>Aureobasidium pullulans</i> . <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 167-172.	3.4	27
33	<i>Flavobacterium faecale</i> sp. nov., an agarase-producing species isolated from stools of Antarctic penguins. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 2884-2890.	1.7	26
34	<i>Sphingomonas lacus</i> sp. nov., an astaxanthin-dideoxyglycoside-producing species isolated from soil near a pond. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2824-2830.	1.7	26
35	Effect of gamma irradiation on the structure of fucoidan. <i>Radiation Physics and Chemistry</i> , 2014, 100, 54-58.	2.8	25
36	Biosynthesis of Ubiquinone Compounds with Conjugated Prenyl Side Chains. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6908-6917.	3.1	24

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37	Application of an oxygen-inducible <i>narX</i> promoter system in metabolic engineering for production of biochemicals in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 468-473.	3.3	24
38	Metabolic engineering of the <i>Stevia rebaudiana</i> ent-kaurene biosynthetic pathway in recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2015, 214, 95-102.	3.8	23
39	<i>Planococcus faecalis</i> sp. nov., a carotenoid-producing species isolated from stools of Antarctic penguins. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 3373-3378.	1.7	23
40	Investigation of cellular targeting of carotenoid pathway enzymes in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2009, 140, 227-233.	3.8	21
41	Carbon sources-dependent carotenoid production in metabolically engineered <i>Escherichia coli</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 2231-2239.	3.6	21
42	Creating Carotenoid Diversity in <i>E. coli</i> Cells using Combinatorial and Directed Evolution Strategies. <i>Phytochemistry Reviews</i> , 2006, 5, 67-74.	6.5	19
43	The astaxanthin dideoxyglycoside biosynthesis pathway in <i>Sphingomonas</i> sp. PB304. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9993-10003.	3.6	19
44	Novel Activity of <i>Rhodobacter sphaeroides</i> Spheroidene Monooxygenase CrtA Expressed in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 7328-7331.	3.1	18
45	<i>Flavobacterium kingsejongi</i> sp. nov., a carotenoid-producing species isolated from Antarctic penguin faeces. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 911-916.	1.7	18
46	Alteration of product specificity of <i>Aeropyrum pernix</i> farnesylgeranyl diphosphate synthase (Fgs) by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 771-777.	2.1	17
47	Carotenoid production from n-alkanes with a broad range of chain lengths by the novel species <i>Gordonia ajouccoccus</i> A2T. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3759-3768.	3.6	16
48	Branched poly(1,4-butylene carbonate-co-terephthalate)s: LDPE-like semicrystalline thermoplastics. <i>Journal of Polymer Science Part A</i> , 2015, 53, 914-923.	2.3	16
49	Organelle Engineering in Yeast: Enhanced Production of Protopanaxadiol through Manipulation of Peroxisome Proliferation in <i>Saccharomyces cerevisiae</i> . <i>Microorganisms</i> , 2022, 10, 650.	3.6	14
50	Characterization of Carotenoid Biosynthesis in Newly Isolated <i>Deinococcus</i> sp. AJ005 and Investigation of the Effects of Environmental Conditions on Cell Growth and Carotenoid Biosynthesis. <i>Marine Drugs</i> , 2019, 17, 705.	4.6	12
51	Use of a Novel <i>Escherichia coli</i> - <i>Leuconostoc</i> Shuttle Vector for Metabolic Engineering of <i>Leuconostoc citreum</i> To Overproduce <i>scpD</i> -Lactate. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1428-1435.	3.1	11
52	Complete genome sequence of <i>Planococcus faecalis</i> AJ003 T, the type species of the genus <i>Planococcus</i> and a microbial C30 carotenoid producer. <i>Journal of Biotechnology</i> , 2018, 266, 72-76.	3.8	11
53	Complete genome sequence of <i>Flavobacterium kingsejongi</i> WV39, a type species of the genus <i>Flavobacterium</i> and a microbial C40 carotenoid zeaxanthin producer. <i>Journal of Biotechnology</i> , 2018, 266, 9-13.	3.8	11
54	Genome Mining Reveals Two Missing CrtP and AldH Enzymes in the C30 Carotenoid Biosynthesis Pathway in <i>Planococcus faecalis</i> AJ003T. <i>Molecules</i> , 2020, 25, 5892.	3.8	11

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55	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 983-988.	2.2	10
56	Redesign and reconstruction of a mevalonate pathway and its application in terpene production in <i>Escherichia coli</i> . <i>Bioresource Technology Reports</i> , 2019, 7, 100291.	2.7	10
57	Microbial Production of Retinyl Palmitate and Its Application as a Cosmeceutical. <i>Antioxidants</i> , 2020, 9, 1130.	5.1	10
58	Kinetic Study of Organic Acid Formations and Growth of <i>Anaerobiospirillum succiniciproducens</i> During Continuous Cultures. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 1379-84.	2.1	10
59	Evaluation of a Pretreatment Method for Two-Dimensional Gel Electrophoresis of Synovial Fluid Using Cartilage Oligomeric Matrix Protein as a Marker. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 654-658.	2.1	10
60	Microbial Production of Bioactive Retinoic Acid Using Metabolically Engineered <i>Escherichia coli</i> . <i>Microorganisms</i> , 2021, 9, 1520.	3.6	9
61	Construction of homologous and heterologous synthetic sucrose utilizing modules and their application for carotenoid production in recombinant <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2013, 130, 288-295.	9.6	8
62	Dynamics of membrane fatty acid composition of succinic acid-producing <i>Anaerobiospirillum succiniciproducens</i> . <i>Journal of Biotechnology</i> , 2015, 193, 130-133.	3.8	8
63	Efficient synthesis of organic carbonates and poly(1,4- <i>ε</i> -butylene carbonate- <i>co</i> - <i>ε</i> -terephthalate)s. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	8
64	<i>Psychrobacillus glaciei</i> sp. nov., a psychrotolerant species isolated from an Antarctic iceberg. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 1947-1952.	1.7	8
65	Development of anaerobically inducible nar promoter expression vectors for the expression of recombinant proteins in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011, 151, 102-107.	3.8	7
66	Polystyrene Chain Growth Initiated from Dialkylzinc for Synthesis of Polyolefin-Polystyrene Block Copolymers. <i>Polymers</i> , 2020, 12, 537.	4.5	6
67	Differences in the Fatty Acid Profile, Morphology, and Tetraacetylphytosphingosine-Forming Capability Between Wild-Type and Mutant <i>Wickerhamomyces ciferrii</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 662979.	4.1	6
68	Chiral Separation of Lactic Acid in Culture Media and Cells of <i>Lactobacillus delbrueckii</i> subsp. <i>lactis</i> as O-Pentafluoropropionylated (S)-(+)-3-Methyl-2-Butyl Ester by Achiral Gas Chromatography-Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 2418-2422.	1.9	6
69	Comparative Genome Analysis of <i>Psychrobacillus</i> Strain PB01, Isolated from an Iceberg. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 237-243.	2.1	6
70	Melanin biopolymer synthesis using a new melanogenic strain of <i>Flavobacterium kingsejongi</i> and a recombinant strain of <i>Escherichia coli</i> expressing 4-hydroxyphenylpyruvate dioxygenase from <i>F. kingsejongi</i> . <i>Microbial Cell Factories</i> , 2022, 21, 75.	4.0	6
71	Cloning and characterization of <i>Mannheimia succiniciproducens</i> MBEL55E phosphoenolpyruvate carboxykinase (pckA) gene. <i>Biotechnology and Bioprocess Engineering</i> , 2002, 7, 95-99.	2.6	5
72	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. <i>Biotechnology and Bioengineering</i> , 2001, 72, 41-48.	3.3	4

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73	Effect of the replication mode of a plasmid on the stability of multimeric endoxylanase genes in <i>Bacillus subtilis</i> . <i>Journal of Biotechnology</i> , 1998, 62, 177-185.	3.8	3
74	Lysostaphin-mediated fragmentation of microbial peptidoglycans for label-free electrochemical impedance immunoanalysis of <i>Staphylococcus aureus</i> . <i>Biochip Journal</i> , 2013, 7, 344-352.	4.9	3
75	Complete Genome Sequence of the Carotenoid-Producing <i>Deinococcus</i> sp. Strain AJ005. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	3
76	Peroxisome Targeting of Lycopene Pathway Enzymes in <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2012, 898, 161-169.	0.9	2
77	Genome resequencing and analysis of d-lactic acid fermentation ability of <i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i> ATCC 8293. <i>Process Biochemistry</i> , 2018, 75, 83-88.	3.7	2
78	Complete Genome Sequence of the Carotenoid-Producing Strain <i>Gordonia ajouccoccus</i> A2. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	2
79	Isolation and Characterization of a Cryptic Plasmid, pMBLR00, from <i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i> KCTC 3733. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 837-842.	2.1	2
80	Heterologous Carotenoid-Biosynthetic Enzymes: Functional Complementation and Effects on Carotenoid Profiles in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 1761-1761.	3.1	1
81	Purification of biomevalonate from fermentation broth and conversion of biomevalonate into biomevalonolactone. <i>Journal of Biotechnology</i> , 2017, 259, 46-49.	3.8	1
82	Vortex dynamics at the junction of Y-shaped microchannels in dilute polymer solutions. <i>Korea Australia Rheology Journal</i> , 2019, 31, 189-194.	1.7	1
83	Complete Genome Sequence of Yellow Pigment-Producing <i>Sphingobium</i> sp. Strain HAL-16. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
84	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. , 2001, 72, 41.		1
85	Hot Spots of Phytoene Desaturase from <i>Rhodobacter sphaeroides</i> Influencing the Desaturation of Phytoene. <i>Catalysts</i> , 2021, 11, 1248.	3.5	1
86	Complete Genome Sequence of the Novel <i>Psychrobacter</i> sp. Strain AJ006, Which Has the Potential for Biomineralization. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	0