

Xuefeng Lu

List of Publications by Year in descending order

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88
papers

3,373
citations

172207

29
h-index

155451

55
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92
all docs

92
docs citations

92
times ranked

2871
citing authors

#	ARTICLE	IF	CITATIONS
1	Overproduction of free fatty acids in <i>E. coli</i> : Implications for biodiesel production. <i>Metabolic Engineering</i> , 2008, 10, 333-339.	3.6	341
2	Photosynthetic production of ethanol from carbon dioxide in genetically engineered cyanobacteria. <i>Energy and Environmental Science</i> , 2012, 5, 9857-9865.	15.6	337
3	Photosynthesis driven conversion of carbon dioxide to fatty alcohols and hydrocarbons in cyanobacteria. <i>Metabolic Engineering</i> , 2011, 13, 169-176.	3.6	224
4	Engineering cyanobacteria to improve photosynthetic production of alka(e)nes. <i>Biotechnology for Biofuels</i> , 2013, 6, 69.	6.2	175
5	The potential of <i>Synechococcus elongatus</i> UTEX 2973 for sugar feedstock production. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7865-7875.	1.7	113
6	Exploring the photosynthetic production capacity of sucrose by cyanobacteria. <i>Metabolic Engineering</i> , 2013, 19, 17-25.	3.6	104
7	A perspective: Photosynthetic production of fatty acid-based biofuels in genetically engineered cyanobacteria. <i>Biotechnology Advances</i> , 2010, 28, 742-746.	6.0	103
8	Improved production of fatty alcohols in cyanobacteria by metabolic engineering. <i>Biotechnology for Biofuels</i> , 2014, 7, 94.	6.2	71
9	Tailoring cyanobacterial cell factory for improved industrial properties. <i>Biotechnology Advances</i> , 2018, 36, 430-442.	6.0	66
10	Fatty alcohol production in engineered <i>E. coli</i> expressing <i>Marinobacter</i> fatty acyl-CoA reductases. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7061-7071.	1.7	65
11	Improving itaconic acid production through genetic engineering of an industrial <i>Aspergillus terreus</i> strain. <i>Microbial Cell Factories</i> , 2014, 13, 119.	1.9	64
12	De novo Biosynthesis of Biodiesel by <i>Escherichia coli</i> in Optimized Fed-Batch Cultivation. <i>PLoS ONE</i> , 2011, 6, e20265.	1.1	63
13	Progress and perspective on cyanobacterial glycogen metabolism engineering. <i>Biotechnology Advances</i> , 2019, 37, 771-786.	6.0	62
14	Effects of Reduced and Enhanced Glycogen Pools on Salt-Induced Sucrose Production in a Sucrose-Secreting Strain of <i>Synechococcus elongatus</i> PCC 7942. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	60
15	Enhancing photosynthetic production of ethylene in genetically engineered <i>Synechocystis</i> sp. PCC 6803. <i>Green Chemistry</i> , 2015, 17, 421-434.	4.6	58
16	Conversion of fatty aldehydes into alk(a)e)nes by in vitro reconstituted cyanobacterial aldehyde-deformylating oxygenase with the cognate electron transfer system. <i>Biotechnology for Biofuels</i> , 2013, 6, 86.	6.2	51
17	The primary transcriptome of the fast-growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973. <i>Biotechnology for Biofuels</i> , 2018, 11, 218.	6.2	50
18	Structural insights into the catalytic mechanism of aldehyde-deformylating oxygenases. <i>Protein and Cell</i> , 2015, 6, 55-67.	4.8	49

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19	Engineering cyanobacteria chassis cells toward more efficient photosynthesis. <i>Current Opinion in Biotechnology</i> , 2020, 62, 1-6.	3.3	48
20	Photosynthetic production of glycerol by a recombinant cyanobacterium. <i>Journal of Biotechnology</i> , 2015, 195, 46-51.	1.9	46
21	Effects of fatty acid activation on photosynthetic production of fatty acid-based biofuels in <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology for Biofuels</i> , 2012, 5, 17.	6.2	44
22	Photosynthetic and extracellular production of glucosylglycerol by genetically engineered and gel-encapsulated cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2147-2154.	1.7	40
23	Hydrocarbon profiles and phylogenetic analyses of diversified cyanobacterial species. <i>Applied Energy</i> , 2013, 111, 383-393.	5.1	39
24	Microbial Synthesis of Alka(e)nes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2013, 1, 10.	2.0	35
25	Direct production of itaconic acid from liquefied corn starch by genetically engineered <i>Aspergillus terreus</i> . <i>Microbial Cell Factories</i> , 2014, 13, 108.	1.9	35
26	Versatility of hydrocarbon production in cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 905-919.	1.7	35
27	Structure-oriented substrate specificity engineering of aldehyde-deformylating oxygenase towards aldehydes carbon chain length. <i>Biotechnology for Biofuels</i> , 2016, 9, 185.	6.2	34
28	Quantitative analysis of fatty-acid-based biofuels produced by wild-type and genetically engineered cyanobacteria by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 8289-8293.	1.8	32
29	Application of the FLP/FRT recombination system in cyanobacteria for construction of markerless mutants. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6373-6382.	1.7	32
30	A Specific Single Nucleotide Polymorphism in the ATP Synthase Gene Significantly Improves Environmental Stress Tolerance of <i>Synechococcus elongatus</i> PCC 7942. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	31
31	Collaborative Biosynthesis of a Class of Bioactive Azaphilones by Two Separate Gene Clusters Containing Four PKS/NRPSs with Transcriptional Crosstalk in Fungi. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4349-4353.	7.2	31
32	Inactivation of invertase enhances sucrose production in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Microbiology (United Kingdom)</i> , 2018, 164, 1220-1228.	0.7	29
33	Engineering cyanobacteria as cell factories for direct trehalose production from CO ₂ . <i>Metabolic Engineering</i> , 2020, 62, 161-171.	3.6	28
34	Engineering self-sufficient aldehyde deformylating oxygenases fused to alternative electron transfer systems for efficient conversion of aldehydes into alkanes. <i>Chemical Communications</i> , 2014, 50, 4299.	2.2	26
35	Identification of an itaconic acid degrading pathway in itaconic acid producing <i>Aspergillus terreus</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7541-7548.	1.7	26
36	Single-step production of the simvastatin precursor monacolin J by engineering of an industrial strain of <i>Aspergillus terreus</i> . <i>Metabolic Engineering</i> , 2017, 42, 109-114.	3.6	26

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37	Biosynthesis, biotechnological production, and applications of glucosylglycerols. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6131-6139.	1.7	25
38	Microbial synthesis of propane by engineering valine pathway and aldehyde-deformylating oxygenase. <i>Biotechnology for Biofuels</i> , 2016, 9, 80.	6.2	25
39	Engineering ethanol production in a marine cyanobacterium <i>Synechococcus</i> sp. PCC7002 through simultaneously removing glycogen synthesis genes and introducing ethanolgenic cassettes. <i>Journal of Biotechnology</i> , 2020, 317, 1-4.	1.9	25
40	Slr0151 in <i>Synechocystis</i> sp. PCC 6803 is required for efficient repair of photosystem II under high light condition. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 1136-1150.	4.1	24
41	Cloning, characterization and application of a glyceraldehyde-3-phosphate dehydrogenase promoter from <i>Aspergillus terreus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 585-592.	1.4	24
42	Combinatory strategy for characterizing and understanding the ethanol synthesis pathway in cyanobacteria cell factories. <i>Biotechnology for Biofuels</i> , 2015, 8, 184.	6.2	24
43	Construction, characterization and application of molecular tools for metabolic engineering of <i>Synechocystis</i> sp.. <i>Biotechnology Letters</i> , 2013, 35, 1655-1661.	1.1	23
44	Improvement of hydrogen peroxide stability of <i>Pleurotus eryngii</i> versatile ligninolytic peroxidase by rational protein engineering. <i>Enzyme and Microbial Technology</i> , 2014, 54, 51-58.	1.6	23
45	Freshwater Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942 Adapts to an Environment with Salt Stress via Ion-Induced Enzymatic Balance of Compatible Solutes. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	23
46	<i>Aspergillus terreus</i> as an industrial filamentous fungus for pharmaceutical biotechnology. <i>Current Opinion in Biotechnology</i> , 2021, 69, 273-280.	3.3	23
47	Direct over-expression, characterization and H ₂ O ₂ stability study of active <i>Pleurotus eryngii</i> versatile peroxidase in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2012, 34, 1537-1543.	1.1	22
48	Genetically assembled fluorescent biosensor for in situ detection of bio-synthesized alkanes. <i>Scientific Reports</i> , 2015, 5, 10907.	1.6	22
49	Sucrose secreted by the engineered cyanobacterium and its fermentability. <i>Journal of Ocean University of China</i> , 2016, 15, 890-896.	0.6	22
50	Bienzyme-Catalytic and Dioxygenation-Mediated Anthraquinone Ring Opening. <i>Journal of the American Chemical Society</i> , 2021, 143, 16326-16331.	6.6	22
51	Effects of global transcription factor NtcA on photosynthetic production of ethylene in recombinant <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , 2017, 10, 145.	6.2	21
52	Terminal Olefin Profiles and Phylogenetic Analyses of Olefin Synthases of Diverse Cyanobacterial Species. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	21
53	Adopting a Theophylline-Responsive Riboswitch for Flexible Regulation and Understanding of Glycogen Metabolism in <i>Synechococcus elongatus</i> PCC7942. <i>Frontiers in Microbiology</i> , 2019, 10, 551.	1.5	20
54	Rescuing ethanol photosynthetic production of cyanobacteria in non-sterilized outdoor cultivations with a bicarbonate-based pH-rising strategy. <i>Biotechnology for Biofuels</i> , 2017, 10, 93.	6.2	19

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55	Construction of an Efficient and Robust <i>Aspergillus terreus</i> Cell Factory for Monacolin J Production. <i>ACS Synthetic Biology</i> , 2019, 8, 818-825.	1.9	19
56	Discovery and Characterization of a PKS–NRPS Hybrid in <i>Aspergillus terreus</i> by Genome Mining. <i>Journal of Natural Products</i> , 2020, 83, 473-480.	1.5	19
57	An overview of the bacterial SsrA system modulating intracellular protein levels and activities. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5229-5241.	1.7	18
58	Establishing an efficient gene-targeting system in an itaconic-acid producing <i>Aspergillus terreus</i> strain. <i>Biotechnology Letters</i> , 2016, 38, 1603-1610.	1.1	16
59	Slr1670 from <i>Synechocystis</i> sp. PCC 6803 Is Required for the Re-assimilation of the Osmolyte Glucosylglycerol. <i>Frontiers in Microbiology</i> , 2016, 7, 1350.	1.5	15
60	Systematic identification of a neutral site on chromosome of <i>Synechococcus</i> sp. PCC7002, a promising photosynthetic chassis strain. <i>Journal of Biotechnology</i> , 2019, 295, 37-40.	1.9	15
61	Compatible solutes profiling and carbohydrate feedstock from diversified cyanobacteria. <i>Algal Research</i> , 2019, 43, 101637.	2.4	14
62	Identification of residues important for the activity of aldehyde-deformylating oxygenase through investigation into the structure-activity relationship. <i>BMC Biotechnology</i> , 2017, 17, 31.	1.7	13
63	The Response Regulator Slr1588 Regulates <i>spsA</i> But Is Not Crucial for Salt Acclimation of <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Microbiology</i> , 2017, 8, 1176.	1.5	13
64	Microbial recycling of glycerol to biodiesel. <i>Bioresource Technology</i> , 2013, 150, 1-8.	4.8	12
65	Draft Genome Sequences of Nine Cyanobacterial Strains from Diverse Habitats. <i>Genome Announcements</i> , 2017, 5, .	0.8	11
66	High Light Induced Alka(e)ne Biodegradation for Lipid and Redox Homeostasis in Cyanobacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 1659.	1.5	9
67	Collaborative Biosynthesis of a Class of Bioactive Azaphilones by Two Separate Gene Clusters Containing Four PKS/NRPSs with Transcriptional Crosstalk in Fungi. <i>Angewandte Chemie</i> , 2020, 132, 4379-4383.	1.6	9
68	Engineering a Controllable Targeted Protein Degradation System and a Derived OR-GATE-Type Inducible Gene Expression System in <i>Synechococcus elongatus</i> PCC 7942. <i>ACS Synthetic Biology</i> , 2022, 11, 125-134.	1.9	9
69	Enhanced Single-Step Bioproduction of the Simvastatin Precursor Monacolin J in an Industrial Strain of <i>Aspergillus terreus</i> by Employing the Evolved Lovastatin Hydrolase. <i>Biotechnology Journal</i> , 2018, 13, 1800094.	1.8	8
70	Establishing an Efficient Genetic Manipulation System for Sulfated Echinocandin Producing Fungus <i>Coleophoma empetri</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 734780.	1.5	8
71	Identification of two two-component signal transduction mutants with enhanced sucrose biosynthesis in <i>Synechococcus elongatus</i> PCC 7942. <i>Journal of Basic Microbiology</i> , 2019, 59, 465-476.	1.8	7
72	Specificities and functional coordination between the two Cas6 maturation endonucleases in <i>Anabaena</i> sp. PCC 7120 assign orphan CRISPR arrays to three groups. <i>RNA Biology</i> , 2020, 17, 1442-1453.	1.5	7

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73	Biological sources, metabolism, and production of glucosylglycerols, a group of natural glucosides of biotechnological interest. <i>Biotechnology Advances</i> , 2022, 59, 107964.	6.0	7
74	Characterization and Structural Analysis of Emodin-O-Methyltransferase from <i>Aspergillus terreus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5728-5737.	2.4	7
75	Systematic Identification of Target Genes for Cellular Morphology Engineering in <i>Synechococcus elongatus</i> PCC7942. <i>Frontiers in Microbiology</i> , 2020, 11, 1608.	1.5	6
76	Cyanobacterial Community Structure and Isolates From Representative Hot Springs of Yunnan Province, China Using an Integrative Approach. <i>Frontiers in Microbiology</i> , 2022, 13, 872598.	1.5	6
77	Comparative Genomics Discloses the Uniqueness and the Biosynthetic Potential of the Marine Cyanobacterium <i>Hyella patelloides</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1527.	1.5	5
78	Identification of a polyketide biosynthesis gene cluster by transcriptional regulator activation in <i>Aspergillus terreus</i> . <i>Fungal Genetics and Biology</i> , 2022, 160, 103690.	0.9	5
79	Rapidly Improving High Light and High Temperature Tolerances of Cyanobacterial Cell Factories Through the Convenient Introduction of an AtpA-C252F Mutation. <i>Frontiers in Microbiology</i> , 2021, 12, 647164.	1.5	4
80	Manipulating the Expression of Glycogen Phosphorylase in <i>Synechococcus elongatus</i> PCC 7942 to Mobilize Glycogen Storage for Sucrose Synthesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	4
81	Enzymatic and physiological characterization of fatty acid activation in <i>Synechocystis</i> sp. PCC6803. <i>Journal of Basic Microbiology</i> , 2013, 53, 848-855.	1.8	3
82	Editorial: Exploring the Growing Role of Cyanobacteria in Industrial Biotechnology and Sustainability. <i>Frontiers in Microbiology</i> , 2021, 12, 725128.	1.5	3
83	Production of Photosynthetic Biofuels by Genetically Engineering Cyanobacteria. <i>Current Chemical Biology</i> , 2012, 6, 26-31.	0.2	3
84	Structural insights into the catalytic mechanism of lovastatin hydrolase. <i>Journal of Biological Chemistry</i> , 2020, 295, 1047-1055.	1.6	3
85	Structural insights into the catalytic mechanism of lovastatin hydrolase. <i>Journal of Biological Chemistry</i> , 2020, 295, 1047-1055.	1.6	1
86	Determination of Intracellular Osmolytes in Cyanobacterial Cells. <i>Bio-protocol</i> , 2018, 8, e2812.	0.2	1
87	Enzymatic Activity Assay for Invertase in <i>Synechocystis</i> Cells. <i>Bio-protocol</i> , 2018, 8, e2856.	0.2	1
88	Production of Photosynthetic Biofuels by Genetically Engineering Cyanobacteria. <i>Current Chemical Biology</i> , 2012, 6, 26-31.	0.2	0