Jianping Yu

List of Publications by Year
in descending order

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Version: 2024-02-01

50 papers	2,634 citations	257450 24 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	2832 citing authors

#	Article	IF	Citations
1	Computational Framework for Machine-Learning-Enabled ¹³C Fluxomics. ACS Synthetic Biology, 2022, 11, 103-115.	3.8	6
2	Biocontainment of Genetically Engineered Algae. Frontiers in Plant Science, 2022, 13, 839446.	3.6	10
3	Exogenous electricity flowing through cyanobacterial photosystem I drives CO₂ valorization with high energy efficiency. Energy and Environmental Science, 2021, 14, 5480-5490.	30.8	19
4	A guanidine-degrading enzyme controls genomic stability of ethylene-producing cyanobacteria. Nature Communications, 2021, 12, 5150.	12.8	18
5	Engineering improved ethylene production: Leveraging systems biology and adaptive laboratory evolution. Metabolic Engineering, 2021, 67, 308-320.	7.0	8
6	Biotechnology for secure biocontainment designs in an emerging bioeconomy. Current Opinion in Biotechnology, 2021, 71, 25-31.	6.6	23
7	A generalized computational framework to streamline thermodynamics and kinetics analysis of metabolic pathways. Metabolic Engineering, 2020, 57, 140-150.	7.0	27
8	System-Level Optimization to Improve Biofuel Potential via Genetic Engineering and Hydrothermal Liquefaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 2753-2762.	6.7	5
9	Increased ethylene production by overexpressing phosphoenolpyruvate carboxylase in the cyanobacterium Synechocystis PCC 6803. Biotechnology for Biofuels, 2020, 13, 16.	6.2	38
10	Membrane-Inlet Mass Spectrometry Enables a Quantitative Understanding of Inorganic Carbon Uptake Flux and Carbon Concentrating Mechanisms in Metabolically Engineered Cyanobacteria. Frontiers in Microbiology, 2019, 10, 1356.	3.5	22
11	Photosynthetic production of the nitrogen-rich compound guanidine. Green Chemistry, 2019, 21, 2928-2937.	9.0	15
12	Inactivation of the uptake hydrogenase in the purple non-sulfur photosynthetic bacterium Rubrivivax gelatinosus CBS enables a biological waterâ€“gas shift platform for H2 production. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 993-1002.	3.0	2
13	Glycogen Synthesis and Metabolite Overflow Contribute to Energy Balancing in Cyanobacteria. Cell Reports, 2018, 23, 667-672.	6.4	107
14	A Genetic Toolbox for Modulating the Expression of Heterologous Genes in the Cyanobacterium Synechocystis sp. PCC 6803. ACS Synthetic Biology, 2018, 7, 276-286.	3.8	78
15	Co-production of fully renewable medium chain Î±-olefins and bio-oilviahydrothermal liquefaction of biomass containing polyhydroxyalkanoic acid. RSC Advances, 2018, 8, 34380-34387.	3.6	10
16	Nitrogen goes around. Nature Chemical Biology, 2018, 14, 527-528.	8.0	1
17	Unlocking the photobiological conversion of CO₂to (R)-3-hydroxybutyrate in cyanobacteria. Green Chemistry, 2018, 20, 3772-3782.	9.0	34
18	The plasticity of cyanobacterial carbon metabolism. Current Opinion in Chemical Biology, 2017, 41, 12-19.	6.1	65

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19	Transcriptome and proteome analysis of nitrogen starvation responses in Synechocystis 6803 Î”glgC, a mutant incapable of glycogen storage. Algal Research, 2017, 21, 64-75.	4.6	25
20	Impacts of genetically engineered alterations in carbon sink pathways on photosynthetic performance. Algal Research, 2016, 20, 87-99.	4.6	21
21	Techno-economic analysis of a conceptual biofuel production process from bioethylene produced by photosynthetic recombinant cyanobacteria. Green Chemistry, 2016, 18, 6266-6281.	9.0	28
22	Phosphoketolase pathway contributes to carbon metabolism in cyanobacteria. Nature Plants, 2016, 2, 15187.	9.3	88
23	Overcoming substrate limitations for improved production of ethylene in E. coli. Biotechnology for Biofuels, 2016, 9, 3.	6.2	27
24	Engineered xylose utilization enhances bio-products productivity in the cyanobacterium Synechocystis sp. PCC 6803. Metabolic Engineering, 2015, 30, 179-189.	7.0	53
25	Enhancing photoâ€catalytic production of organic acids in the cyanobacterium <scp>S</scp>ynechocystis sp.â€¦<scp>PCC</scp> 6803 Î”glg<scp>C</scp>, a strain incapable of glycogen storage. Microbial Biotechnology, 2015, 8, 275-280.	4.2	21
26	The plasticity of cyanobacterial metabolism supports direct CO2 conversion to ethylene. Nature Plants, 2015, 1, .	9.3	119
27	Premethylation of Foreign DNA Improves Integrative Transformation Efficiency in Synechocystis sp. Strain PCC 6803. Applied and Environmental Microbiology, 2015, 81, 8500-8506.	3.1	20
28	Genome Annotation Provides Insight into Carbon Monoxide and Hydrogen Metabolism in Rubrivivax gelatinosus. PLoS ONE, 2014, 9, e114551.	2.5	21
29	Ethylene-forming enzyme and bioethylene production. Biotechnology for Biofuels, 2014, 7, 33.	6.2	90
30	Hydrogen Production by Water Biophotolysis. Advances in Photosynthesis and Respiration, 2014, , 101-135.	1.0	13
31	Draft Genome Sequence of Rubrivivax gelatinosus CBS. Journal of Bacteriology, 2012, 194, 3262-3262.	2.2	8
32	Genetic Analysis of the Hox Hydrogenase in the Cyanobacterium Synechocystis sp. PCC 6803 Reveals Subunit Roles in Association, Assembly, Maturation, and Function. Journal of Biological Chemistry, 2012, 287, 43502-43515.	3.4	40
33	Photo-catalytic conversion of carbon dioxide to organic acids by a recombinant cyanobacterium incapable of glycogen storage. Energy and Environmental Science, 2012, 5, 9457.	30.8	81
34	Sustained photosynthetic conversion of CO2 to ethylene in recombinant cyanobacterium Synechocystis 6803. Energy and Environmental Science, 2012, 5, 8998.	30.8	214
35	Comparison of Intact Arabidopsis thaliana Leaf Transcript Profiles during Treatment with Inhibitors of Mitochondrial Electron Transport and TCA Cycle. PLoS ONE, 2012, 7, e44339.	2.5	33
36	The role of the bidirectional hydrogenase in cyanobacteria. Bioresource Technology, 2011, 102, 8368-8377.	9.6	85

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37	Heterologous Expression of Alteromonas macleodii and Thiocapsa roseopersicina [NiFe] Hydrogenases in Synechococcus elongatus. PLoS ONE, 2011, 6, e20126.	2.5	36
38	Characterization of Genes Responsible for the CO-Linked Hydrogen Production Pathway in Rubrivivax gelatinosus. Applied and Environmental Microbiology, 2010, 76, 3715-3722.	3.1	14
39	Photobiological hydrogen-producing systems. Chemical Society Reviews, 2009, 38, 52-61.	38.1	282
40	Photobiological Hydrogen Production â€“ Prospects and Challenges. Microbe Magazine, 2009, 4, 275-280.	0.4	18
41	Hydrogenases and Hydrogen Photoproduction in Oxygenic Photosynthetic Organisms. Annual Review of Plant Biology, 2007, 58, 71-91.	18.7	330
42	Inter-relationships between light and respiration in the control of ascorbic acid synthesis and accumulation in Arabidopsis thaliana leaves. Journal of Experimental Botany, 2006, 57, 1621-1631.	4.8	255
43	Suppressor Mutations in the Study of Photosystem I Biogenesis: sll0088 Is a Previously Unidentified Gene Involved in Reaction Center Accumulation in Synechocystis sp. Strain PCC 6803. Journal of Bacteriology, 2003, 185, 3878-3887.	2.2	20
44	A genome approach to mitochondrial-nuclear communicationin Arabidopsis. Plant Physiology and Biochemistry, 2001, 39, 345-353.	5.8	68
45	The Cysteine-proximal Aspartates in the FX-binding Niche of Photosystem I. Journal of Biological Chemistry, 1999, 274, 9993-10001.	3.4	12
46	[2] Isolation and genetic characterization of pseudorevertants from site-directed PSI mutants in Synechocystis 6803. Methods in Enzymology, 1998, 297, 18-26.	1.0	5
47	Strains of Synechocystis sp. PCC 6803 with Altered PsaC. Journal of Biological Chemistry, 1997, 272, 8032-8039.	3.4	26
48	Strains of Synechocystis sp. PCC 6803 with Altered PsaC. Journal of Biological Chemistry, 1997, 272, 8040-8049.	3.4	22
49	Absence of PsaC subunit allows assembly of photosystem I core but prevents the binding of PsaD and PsaE in Synechocystis sp. PCC6803. Plant Molecular Biology, 1995, 29, 331-342.	3.9	70
50	In Vivo Site-Directed Mutations of the Cysteine Ligands to FA and FB in Synechocystis sp. PCC 6803: A Comparison with in Vitro Reconstituted Photosystem I Complexes. , 1995, , 1105-1108.		1