Jianping Yu

List of Publications by Year
in descending order

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	Hydrogenases and Hydrogen Photoproduction in Oxygenic Photosynthetic Organisms. Annual Review of Plant Biology, 2007, 58, 71-91.	18.7	330
2	Photobiological hydrogen-producing systems. Chemical Society Reviews, 2009, 38, 52-61.	38.1	282
3	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
4	Sustained photosynthetic conversion of CO2 to ethylene in recombinant cyanobacterium Synechocystis 6803. Energy and Environmental Science, 2012, 5, 8998.	30.8	214
5	The plasticity of cyanobacterial metabolism supports direct CO2 conversion to ethylene. Nature Plants, 2015, 1, .	9.3	119
6	Glycogen Synthesis and Metabolite Overflow Contribute to Energy Balancing in Cyanobacteria. Cell Reports, 2018, 23, 667-672.	6.4	107
7	Ethylene-forming enzyme and bioethylene production. Biotechnology for Biofuels, 2014, 7, 33.	6.2	90
8	Phosphoketolase pathway contributes to carbon metabolism in cyanobacteria. Nature Plants, 2016, 2, 15187.	9.3	88
9	The role of the bidirectional hydrogenase in cyanobacteria. Bioresource Technology, 2011, 102, 8368-8377.	9.6	85
10	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
11	A Genetic Toolbox for Modulating the Expression of Heterologous Genes in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. ACS Synthetic Biology, 2018, 7, 276-286.	3.8	78
12	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
13	A genome approach to mitochondrial-nuclear communicationin Arabidopsis. Plant Physiology and Biochemistry, 2001, 39, 345-353.	5.8	68
14	The plasticity of cyanobacterial carbon metabolism. Current Opinion in Chemical Biology, 2017, 41, 12-19.	6.1	65
15	Engineered xylose utilization enhances bio-products productivity in the cyanobacterium Synechocystis sp. PCC 6803. Metabolic Engineering, 2015, 30, 179-189.	7.0	53
16	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
17	Increased ethylene production by overexpressing phosphoenolpyruvate carboxylase in the cyanobacterium Synechocystis PCC 6803. Biotechnology for Biofuels, 2020, 13, 16.	6.2	38
18	Heterologous Expression of Alteromonas macleodii and Thiocapsa roseopersicina [NiFe] Hydrogenases in Synechococcus elongatus. PLoS ONE, 2011, 6, e20126.	2.5	36

#	Article	IF	Citations
19	Unlocking the photobiological conversion of CO₂to (<i>R</i>)-3-hydroxybutyrate in cyanobacteria. Green Chemistry, 2018, 20, 3772-3782.	9.0	34
20	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
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	Overcoming substrate limitations for improved production of ethylene in E. coli. Biotechnology for Biofuels, 2016, 9, 3.	6.2	27
23	A generalized computational framework to streamline thermodynamics and kinetics analysis of metabolic pathways. Metabolic Engineering, 2020, 57, 140-150.	7.0	27
24	Strains of Synechocystis sp. PCC 6803 with Altered PsaC. Journal of Biological Chemistry, 1997, 272, 8032-8039.	3.4	26
25	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
26	Biotechnology for secure biocontainment designs in an emerging bioeconomy. Current Opinion in Biotechnology, 2021, 71, 25-31.	6.6	23
27	Strains of Synechocystis sp. PCC 6803 with Altered PsaC. Journal of Biological Chemistry, 1997, 272, 8040-8049.	3.4	22
28	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
29	Genome Annotation Provides Insight into Carbon Monoxide and Hydrogen Metabolism in Rubrivivax gelatinosus. PLoS ONE, 2014, 9, e114551.	2.5	21
30	Enhancing photoâ€catalytic production of organic acids in the cyanobacterium <scp><i>S</i></scp><i>ynechocystis sp.</i>â€…<scp>PCC</scp> 6803 Î”<i>glg</i><scp><i>C</i></scp>, a strain incapable of glycogen storage. Microbial Biotechnology, 2015, 8, 275-280.	4.2	21
31	Impacts of genetically engineered alterations in carbon sink pathways on photosynthetic performance. Algal Research, 2016, 20, 87-99.	4.6	21
32	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
33	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
34	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
35	A guanidine-degrading enzyme controls genomic stability of ethylene-producing cyanobacteria. Nature Communications, 2021, 12, 5150.	12.8	18
36	Photobiological Hydrogen Production â€“ Prospects and Challenges. Microbe Magazine, 2009, 4, 275-280.	0.4	18

#	Article	IF	Citations
37	Photosynthetic production of the nitrogen-rich compound guanidine. Green Chemistry, 2019, 21, 2928-2937.	9.0	15
38	Characterization of Genes Responsible for the CO-Linked Hydrogen Production Pathway in <i>Rubrivivax gelatinosus</i>. Applied and Environmental Microbiology, 2010, 76, 3715-3722.	3.1	14
39	Hydrogen Production by Water Biophotolysis. Advances in Photosynthesis and Respiration, 2014, , 101-135.	1.0	13
40	The Cysteine-proximal Aspartates in the FX-binding Niche of Photosystem I. Journal of Biological Chemistry, 1999, 274, 9993-10001.	3.4	12
41	Co-production of fully renewable medium chain Î±-olefins and bio-oil<i>via</i>hydrothermal liquefaction of biomass containing polyhydroxyalkanoic acid. RSC Advances, 2018, 8, 34380-34387.	3.6	10
42	Biocontainment of Genetically Engineered Algae. Frontiers in Plant Science, 2022, 13, 839446.	3.6	10
43	Draft Genome Sequence of Rubrivivax gelatinosus CBS. Journal of Bacteriology, 2012, 194, 3262-3262.	2.2	8
44	Engineering improved ethylene production: Leveraging systems biology and adaptive laboratory evolution. Metabolic Engineering, 2021, 67, 308-320.	7.0	8
45	Computational Framework for Machine-Learning-Enabled ¹³C Fluxomics. ACS Synthetic Biology, 2022, 11, 103-115.	3.8	6
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	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
48	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
49	Nitrogen goes around. Nature Chemical Biology, 2018, 14, 527-528.	8.0	1
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