

Patrick M Shih

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,347
citations

236925

25
h-index

206112

48
g-index

54
all docs

54
docs citations

54
times ranked

4540
citing authors

#	ARTICLE	IF	CITATIONS
1	Heinz-resistant tomato cultivars exhibit a lignin-based resistance to field dodder (<i>Cuscuta</i>) Tj ETQq1 1 0.784314.rgBT /Overlock 10 T	4.8	20
2	Nitrogen Metabolism in <i>Pseudomonas putida</i> : Functional Analysis Using Random Barcode Transposon Sequencing. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0243021.	3.1	8
3	Optimization of Heterologous Glucoraphanin Production <i>In Planta</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 1865-1873.	3.8	4
4	Plant-based engineering for production of high-valued natural products. <i>Natural Product Reports</i> , 2022, 39, 1492-1509.	10.3	9
5	Granick revisited: Synthesizing evolutionary and ecological evidence for the late origin of bacteriochlorophyll via ghost lineages and horizontal gene transfer. <i>PLoS ONE</i> , 2021, 16, e0239248.	2.5	10
6	Correction for Thompson et al., "Fatty Acid and Alcohol Metabolism in <i>Pseudomonas putida</i> : Functional Analysis Using Random Barcode Transposon Sequencing" <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	0
7	Draft Genome Sequence of <i>Mycobacterium</i> sp. Strain JC1 DSM 3803. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	0
8	CRISPR-Cas3.0 for highly efficient multiplexed gene activation in plants. <i>Nature Plants</i> , 2021, 7, 942-953.	9.3	99
9	In-planta production of the biodegradable polyester precursor 2-pyrone-4,6-dicarboxylic acid (PDC): Stacking reduced biomass recalcitrance with value-added co-product. <i>Metabolic Engineering</i> , 2021, 66, 148-156.	7.0	12
10	From breeding to genome design: A genomic makeover for potatoes. <i>Cell</i> , 2021, 184, 3843-3845.	28.9	2
11	Utilizing Plant Synthetic Biology to Improve Human Health and Wellness. <i>Frontiers in Plant Science</i> , 2021, 12, 691462.	3.6	13
12	Discovery of photosynthesis genes through whole-genome sequencing of acetate-requiring mutants of <i>Chlamydomonas reinhardtii</i> . <i>PLoS Genetics</i> , 2021, 17, e1009725.	3.5	18
13	Overexpression of the rice BAHD acyltransferase AT10 increases xylan-bound p-coumarate and reduces lignin in <i>Sorghum bicolor</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 217.	6.2	16
14	Defining and engineering bioenergy plant feedstock ideotypes. <i>Current Opinion in Biotechnology</i> , 2020, 62, 196-201.	6.6	9
15	Engineering Plant Synthetic Pathways for the Biosynthesis of Novel Antifungals. <i>ACS Central Science</i> , 2020, 6, 1394-1400.	11.3	22
16	Novel bacterial clade reveals origin of form I Rubisco. <i>Nature Plants</i> , 2020, 6, 1158-1166.	9.3	46
17	Fatty Acid and Alcohol Metabolism in <i>Pseudomonas putida</i> : Functional Analysis Using Random Barcode Transposon Sequencing. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	52
18	Design of orthogonal regulatory systems for modulating gene expression in plants. <i>Nature Chemical Biology</i> , 2020, 16, 857-865.	8.0	57

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19	Cell biology of photosynthesis over geologic time. <i>Current Biology</i> , 2020, 30, R490-R494.	3.9	26
20	Accumulation of high-value bioproducts <i>in planta</i> can improve the economics of advanced biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8639-8648.	7.1	57
21	Draft Genome Sequence of <i>Agrobacterium fabrum</i> ARqua1. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	4
22	Biosystems Design to Accelerate C ₃ -to-CAM Progression. <i>Biodesign Research</i> , 2020, 2020, .	1.9	16
23	Plant Biosystems Design Research Roadmap 1.0. <i>Biodesign Research</i> , 2020, 2020, .	1.9	16
24	<i>Agrobacterium tumefaciens</i> : A Bacterium Primed for Synthetic Biology. <i>Biodesign Research</i> , 2020, 2020, .	1.9	14
25	Robust Characterization of Two Distinct Glutarate Sensing Transcription Factors of <i>Pseudomonas putida</i> -Lysine Metabolism. <i>ACS Synthetic Biology</i> , 2019, 8, 2385-2396.	3.8	17
26	Hydrogen-based metabolism as an ancestral trait in lineages sibling to the Cyanobacteria. <i>Nature Communications</i> , 2019, 10, 463.	12.8	87
27	Early Cyanobacteria and the Innovation of Microbial Sunscreens. <i>MBio</i> , 2019, 10, .	4.1	7
28	The evolution and productivity of carbon fixation pathways in response to changes in oxygen concentration over geological time. <i>Free Radical Biology and Medicine</i> , 2019, 140, 188-199.	2.9	59
29	Towards a sustainable bio-based economy: Redirecting primary metabolism to new products with plant synthetic biology. <i>Plant Science</i> , 2018, 273, 84-91.	3.6	31
30	Precise age of <i>Bangiomorpha pubescens</i> dates the origin of eukaryotic photosynthesis. <i>Geology</i> , 2018, 46, 135-138.	4.4	148
31	MetaPOAP: presence or absence of metabolic pathways in metagenome-assembled genomes. <i>Bioinformatics</i> , 2018, 34, 4284-4286.	4.1	50
32	Bacterial diversification through geological time. <i>Nature Ecology and Evolution</i> , 2018, 2, 1458-1467.	7.8	81
33	Evolution of Phototrophy in the Chloroflexi Phylum Driven by Horizontal Gene Transfer. <i>Frontiers in Microbiology</i> , 2018, 9, 260.	3.5	143
34	Increased drought tolerance in plants engineered for low lignin and low xylan content. <i>Biotechnology for Biofuels</i> , 2018, 11, 195.	6.2	33
35	Gene stacking of multiple traits for high yield of fermentable sugars in plant biomass. <i>Biotechnology for Biofuels</i> , 2018, 11, 2.	6.2	38
36	Evolution of the 3-hydroxypropionate bicycle and recent transfer of anoxygenic photosynthesis into the Chloroflexi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10749-10754.	7.1	108

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37	Biotechnology and synthetic biology approaches for metabolic engineering of bioenergy crops. <i>Plant Journal</i> , 2016, 87, 103-117.	5.7	44
38	Biochemical characterization of predicted Precambrian RuBisCO. <i>Nature Communications</i> , 2016, 7, 10382.	12.8	112
39	A robust gene-stacking method utilizing yeast assembly for plant synthetic biology. <i>Nature Communications</i> , 2016, 7, 13215.	12.8	59
40	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. <i>New Phytologist</i> , 2015, 208, 13-19.	7.3	263
41	Cyanobacterial Evolution: Fresh Insight into Ancient Questions. <i>Current Biology</i> , 2015, 25, R192-R193.	3.9	24
42	Photosynthesis and early Earth. <i>Current Biology</i> , 2015, 25, R855-R859.	3.9	46
43	Bayesian Analysis of Congruence of Core Genes in <i>Prochlorococcus</i> and <i>Synechococcus</i> and Implications on Horizontal Gene Transfer. <i>PLoS ONE</i> , 2014, 9, e85103.	2.5	12
44	Introduction of a Synthetic CO ₂ -fixing Photorespiratory Bypass into a Cyanobacterium. <i>Journal of Biological Chemistry</i> , 2014, 289, 9493-9500.	3.4	87
45	Dynamic cyanobacterial response to hydration and dehydration in a desert biological soil crust. <i>ISME Journal</i> , 2013, 7, 2178-2191.	9.8	217
46	Improving the coverage of the cyanobacterial phylum using diversity-driven genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1053-1058.	7.1	769
47	Primary endosymbiosis events date to the later Proterozoic with cross-calibrated phylogenetic dating of duplicated ATPase proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12355-12360.	7.1	126
48	<i>Arabidopsis thaliana</i> PGR7 Encodes a Conserved Chloroplast Protein That Is Necessary for Efficient Photosynthetic Electron Transport. <i>PLoS ONE</i> , 2010, 5, e11688.	2.5	18
49	Direct Identification of the <i>Meloidogyne incognita</i> Secretome Reveals Proteins with Host Cell Reprogramming Potential. <i>PLoS Pathogens</i> , 2008, 4, e1000192.	4.7	225