

# Patrik R Jones

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49  
papers

2,409  
citations

23  
h-index

49  
g-index

54  
ext. papers

2,820  
ext. citations

8.6  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
49	Synthetic metabolic pathways for conversion of CO into secreted short-to medium-chain hydrocarbons using cyanobacteria.. <i>Metabolic Engineering</i> , <b>2022</b> , 72, 14-23	9.7	1
48	Calm on the surface, dynamic on the inside. Molecular homeostasis of <i>Anabaena</i> sp. PCC 7120 nitrogen metabolism. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 1885-1907	8.4	1
47	Engineering Biocatalytic Solar Fuel Production: The PHOTOFUEL Consortium. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 323-327	15.1	6
46	Improved Bioproduction of 1-Octanol Using Engineered sp. PCC 6803. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 1417-1428	5.7	4
45	Computational Enzyme Engineering Pipelines for Optimized Production of Renewable Chemicals. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 673005	5.8	1
44	Reconstruction of the absorption spectrum of <i>Synechocystis</i> sp. PCC 6803 optical mutants from the in vivo signature of individual pigments. <i>Photosynthesis Research</i> , <b>2021</b> , 147, 75-90	3.7	2
43	Low carbon strategies for sustainable bio-alkane gas production and renewable energy. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1818-1831	35.4	36
42	Bioderivatization as a concept for renewable production of chemicals that are toxic or poorly soluble in the liquid phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1404-1413	11.5	12
41	Methanol-free biosynthesis of fatty acid methyl ester (FAME) in <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , <b>2020</b> , 57, 217-227	9.7	15
40	In silico co-factor balance estimation using constraint-based modelling informs metabolic engineering in <i>Escherichia coli</i> . <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008125	5	6
39	In silico co-factor balance estimation using constraint-based modelling informs metabolic engineering in <i>Escherichia coli</i> <b>2020</b> , 16, e1008125		
38	In silico co-factor balance estimation using constraint-based modelling informs metabolic engineering in <i>Escherichia coli</i> <b>2020</b> , 16, e1008125		
37	In silico co-factor balance estimation using constraint-based modelling informs metabolic engineering in <i>Escherichia coli</i> <b>2020</b> , 16, e1008125		
36	In silico co-factor balance estimation using constraint-based modelling informs metabolic engineering in <i>Escherichia coli</i> <b>2020</b> , 16, e1008125		
35	CyanoFactory, a European consortium to develop technologies needed to advance cyanobacteria as chassis for production of chemicals and fuels. <i>Algal Research</i> , <b>2019</b> , 41, 101510	5	15
34	Sunlight-driven recycling to increase nutrient use-efficiency in agriculture. <i>Algal Research</i> , <b>2019</b> , 41, 101554		6
33	Economic feasibility and long-term sustainability criteria on the path to enable a transition from fossil fuels to biofuels. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 57, 175-182	11.4	23

32	The effect of modulating the quantity of enzymes in a model ethanol pathway on metabolic flux in sp. PCC 6803. <i>PeerJ</i> , <b>2019</b> , 7, e7529	3.1	8
31	Overexpression of bifunctional fructose-1,6-bisphosphatase/sedoheptulose-1,7-bisphosphatase leads to enhanced photosynthesis and global reprogramming of carbon metabolism in <i>Synechococcus</i> sp. PCC 7002. <i>Metabolic Engineering</i> , <b>2018</b> , 47, 170-183	9.7	39
30	Photosynthesis-dependent biosynthesis of medium chain-length fatty acids and alcohols. <i>Metabolic Engineering</i> , <b>2018</b> , 49, 59-68	9.7	48
29	Synthetic metabolic pathways for photobiological conversion of CO into hydrocarbon fuel. <i>Metabolic Engineering</i> , <b>2018</b> , 49, 201-211	9.7	58
28	Finding novel relationships with integrated gene-gene association network analysis of PCC 6803 using species-independent text-mining. <i>PeerJ</i> , <b>2018</b> , 6, e4806	3.1	3
27	Synthetic metabolism: metabolic engineering meets enzyme design. <i>Current Opinion in Chemical Biology</i> , <b>2017</b> , 37, 56-62	9.7	135
26	Light distribution and spectral composition within cultures of micro-algae: Quantitative modelling of the light field in photobioreactors. <i>Algal Research</i> , <b>2017</b> , 23, 166-177	5	21
25	A Comprehensively Curated Genome-Scale Two-Cell Model for the Heterocystous Cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Plant Physiology</i> , <b>2017</b> , 173, 509-523	6.6	22
24	Pyridine nucleotide transhydrogenase PntAB is essential for optimal growth and photosynthetic integrity under low-light mixotrophic conditions in <i>Synechocystis</i> sp. PCC 6803. <i>New Phytologist</i> , <b>2017</b> , 214, 194-204	9.8	17
23	Development of a Quantitative SRM-Based Proteomics Method to Study Iron Metabolism of <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 266-79	5.6	20
22	A quantitative evaluation of ethylene production in the recombinant cyanobacterium <i>Synechocystis</i> sp. PCC 6803 harboring the ethylene-forming enzyme by membrane inlet mass spectrometry. <i>Bioresource Technology</i> , <b>2016</b> , 202, 142-51	11	27
21	A microbial platform for renewable propane synthesis based on a fermentative butanol pathway. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 61	7.8	44
20	A synthetic O <sub>2</sub> -tolerant butanol pathway exploiting native fatty acid biosynthesis in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 120-8	4.9	15
19	A Comparison of the Microbial Production and Combustion Characteristics of Three Alcohol Biofuels: Ethanol, 1-Butanol, and 1-Octanol. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 112	5.8	20
18	Microbial production of 1-octanol: A naturally excreted biofuel with diesel-like properties. <i>Metabolic Engineering Communications</i> , <b>2015</b> , 2, 1-5	6.5	77
17	Renewable jet fuel. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 26, 50-5	11.4	89
16	An engineered pathway for the biosynthesis of renewable propane. <i>Nature Communications</i> , <b>2014</b> , 5, 4731	17.4	103
15	Genetic instability in cyanobacteria - an elephant in the room?. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2014</b> , 2, 12	5.8	67

14	Cofactor engineering for enhancing the flux of metabolic pathways. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2014</b> , 2, 30	5.8	24
13	Insurmountable Hurdles for Fermentative H <sub>2</sub> Production? <b>2013</b> , 67-74		1
12	Carboxylic acid reductase is a versatile enzyme for the conversion of fatty acids into fuels and chemical commodities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 87-92	11.5	259
11	Physiological tolerance and stoichiometric potential of cyanobacteria for hydrocarbon fuel production. <i>Journal of Biotechnology</i> , <b>2012</b> , 162, 67-74	3.7	45
10	Ethylene synthesis and regulated expression of recombinant protein in <i>Synechocystis</i> sp. PCC 6803. <i>PLoS ONE</i> , <b>2012</b> , 7, e50470	3.7	138
9	Oxygen-independent alkane formation by non-heme iron-dependent cyanobacterial aldehyde decarbonylase: investigation of kinetics and requirement for an external electron donor. <i>Biochemistry</i> , <b>2011</b> , 50, 10743-50	3.2	61
8	Construction of a synthetic YdbK-dependent pyruvate:H <sub>2</sub> pathway in <i>Escherichia coli</i> BL21(DE3). <i>Metabolic Engineering</i> , <b>2009</b> , 11, 139-47	9.7	52
7	Constructing and testing the thermodynamic limits of synthetic NAD(P)H:H <sub>2</sub> pathways. <i>Microbial Biotechnology</i> , <b>2008</b> , 1, 382-94	6.3	55
6	Deletion of <i>iscR</i> stimulates recombinant clostridial Fe-Fe hydrogenase activity and H <sub>2</sub> -accumulation in <i>Escherichia coli</i> BL21(DE3). <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 853-62	5.7	90
5	Engineering of a synthetic <i>hydF-hydE-hydG-hydA</i> operon for biohydrogen production. <i>Analytical Biochemistry</i> , <b>2008</b> , 373, 170-2	3.1	34
4	Resistance to an herbivore through engineered cyanogenic glucoside synthesis. <i>Science</i> , <b>2001</b> , 293, 1826-33	39.3	230
3	Glycosyltransferases in plant natural product synthesis: characterization of a supergene family. <i>Trends in Plant Science</i> , <b>2000</b> , 5, 380-6	13.1	452
2	The Biosynthesis, Degradation, Transport and Possible Function of Cyanogenic Glucosides. <i>Recent Advances in Phytochemistry</i> , <b>2000</b> , 34, 191-247		25
1	Distributed Biomanufacturing of Liquefied Petroleum Gas		1