

John A Morgan

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

4,193
citations

117625

34
h-index

118850

62
g-index

71
all docs

71
docs citations

71
times ranked

4750
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion of volatile organics and water in the epicuticular waxes of petunia petal epidermal cells. <i>Plant Journal</i> , 2022, 110, 658-672.	5.7	10
2	Cuticle thickness affects dynamics of volatile emission from petunia flowers. <i>Nature Chemical Biology</i> , 2021, 17, 138-145.	8.0	50
3	Overexpression of arogenate dehydratase reveals an upstream point of metabolic control in phenylalanine biosynthesis. <i>Plant Journal</i> , 2021, 108, 737-751.	5.7	12
4	Probing Light-Dependent Regulation of the Calvin Cycle Using a Multi-Omics Approach. <i>Frontiers in Plant Science</i> , 2021, 12, 733122.	3.6	5
5	Electric Pulse Pretreatment for Enhanced Lipid Recovery from <i>Chlorella protothecoides</i> . <i>Bioenergy Research</i> , 2020, 13, 499-506.	3.9	5
6	Metabolic flux analysis of secondary metabolism in plants. <i>Metabolic Engineering Communications</i> , 2020, 10, e00123.	3.6	44
7	Modeling Plant Metabolism: From Network Reconstruction to Mechanistic Models. <i>Annual Review of Plant Biology</i> , 2020, 71, 303-326.	18.7	27
8	Modulation of auxin formation by the cytosolic phenylalanine biosynthetic pathway. <i>Nature Chemical Biology</i> , 2020, 16, 850-856.	8.0	27
9	Combining Random Mutagenesis and Metabolic Engineering for Enhanced Tryptophan Production in <i>Synechocystis</i> sp. Strain PCC 6803. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	18
10	Combining isotopically non-stationary metabolic flux analysis with proteomics to unravel the regulation of the Calvin-Benson-Bassham cycle in <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2019, 56, 77-84.	7.0	30
11	Natural fumigation as a mechanism for volatile transport between flower organs. <i>Nature Chemical Biology</i> , 2019, 15, 583-588.	8.0	56
12	Cost-Aware Learning for Improved Identifiability with Multiple Experiments. , 2019, , .		0
13	Completion of the cytosolic post-chorismate phenylalanine biosynthetic pathway in plants. <i>Nature Communications</i> , 2019, 10, 15.	12.8	103
14	Glycogen Synthesis and Metabolite Overflow Contribute to Energy Balancing in Cyanobacteria. <i>Cell Reports</i> , 2018, 23, 667-672.	6.4	107
15	A ¹³ C isotope labeling method for the measurement of lignin metabolic flux in <i>Arabidopsis</i> stems. <i>Plant Methods</i> , 2018, 14, 51.	4.3	22
16	Dynamic modeling of subcellular phenylpropanoid metabolism in <i>Arabidopsis</i> lignifying cells. <i>Metabolic Engineering</i> , 2018, 49, 36-46.	7.0	16
17	Targeted Metabolomics of the Phenylpropanoid Pathway in <i>Arabidopsis thaliana</i> using Reversed Phase Liquid Chromatography Coupled with Tandem Mass Spectrometry. <i>Phytochemical Analysis</i> , 2017, 28, 267-276.	2.4	30
18	Plant Volatiles: Going "In" but not "Out" of Trichome Cavities. <i>Trends in Plant Science</i> , 2017, 22, 930-938		97

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19	Multifaceted plant responses to circumvent Phe hyperaccumulation by downregulation of flux through the shikimate pathway and by vacuolar Phe sequestration. <i>Plant Journal</i> , 2017, 92, 939-950.	5.7	24
20	Emission of volatile organic compounds from petunia flowers is facilitated by an ABC transporter. <i>Science</i> , 2017, 356, 1386-1388.	12.6	202
21	Metabolic flux analysis of heterotrophic growth in <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2017, 12, e0177292.	2.5	40
22	Editorial overview: Plant biotechnology. <i>Current Opinion in Biotechnology</i> , 2016, 37, 153-154.	6.6	0
23	Rethinking how volatiles are released from plant cells. <i>Trends in Plant Science</i> , 2015, 20, 545-550.	8.8	153
24	The plasticity of cyanobacterial metabolism supports direct CO ₂ conversion to ethylene. <i>Nature Plants</i> , 2015, 1, .	9.3	119
25	Genetic manipulation of lignocellulosic biomass for bioenergy. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 32-39.	6.1	57
26	Identification of a plastidial phenylalanine exporter that influences flux distribution through the phenylalanine biosynthetic network. <i>Nature Communications</i> , 2015, 6, 8142.	12.8	76
27	The monoglignol pathway contributes to the biosynthesis of volatile phenylpropenes in flowers. <i>New Phytologist</i> , 2014, 204, 661-670.	7.3	44
28	Isotopomer Measurement Techniques in Metabolic Flux Analysis II: Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2014, 1083, 85-108.	0.9	33
29	Isotopically Nonstationary MFA (INST-MFA) of Autotrophic Metabolism. <i>Methods in Molecular Biology</i> , 2014, 1090, 181-210.	0.9	29
30	Simulating Labeling to Estimate Kinetic Parameters for Flux Control Analysis. <i>Methods in Molecular Biology</i> , 2014, 1090, 211-222.	0.9	1
31	Analysis of metabolic flux using dynamic labelling and metabolic modelling. <i>Plant, Cell and Environment</i> , 2013, 36, 1738-1750.	5.7	47
32	Metabolic cartography: experimental quantification of metabolic fluxes from isotopic labelling studies. <i>Journal of Experimental Botany</i> , 2012, 63, 2293-2308.	4.8	66
33	Developmental Changes in the Metabolic Network of Snapdragon Flowers. <i>PLoS ONE</i> , 2012, 7, e40381.	2.5	72
34	Mapping photoautotrophic metabolism with isotopically nonstationary ¹³ C flux analysis. <i>Metabolic Engineering</i> , 2011, 13, 656-665.	7.0	307
35	Heterotrophic growth and lipid production of <i>Chlorella protothecoides</i> on glycerol. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 121-125.	3.4	115
36	Metabolic flux analysis of CHO cell metabolism in the late non- μ growth phase. <i>Biotechnology and Bioengineering</i> , 2011, 108, 82-92.	3.3	113

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37	Computation of metabolic fluxes and efficiencies for biological carbon dioxide fixation. <i>Metabolic Engineering</i> , 2011, 13, 150-158.	7.0	66
38	Controlling selectivity and enhancing yield of flavonoid glycosides in recombinant yeast. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 863-871.	3.4	17
39	Synthesis of non-natural flavanones and dihydrochalcones in metabolically engineered yeast. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 257-263.	1.8	19
40	A kinetic model describes metabolic response to perturbations and distribution of flux control in the benzenoid network of <i>Petunia hybrida</i> . <i>Plant Journal</i> , 2010, 62, 64-76.	5.7	59
41	Flux balance analysis of primary metabolism in <i>Chlamydomonas reinhardtii</i> . <i>BMC Systems Biology</i> , 2009, 3, 4.	3.0	351
42	Systematic development of hybrid cybernetic models: Application to recombinant yeast consuming glucose and xylose. <i>Biotechnology and Bioengineering</i> , 2009, 103, 984-1002.	3.3	71
43	Expression of a <i>Dianthus</i> flavonoid glucosyltransferase in <i>Saccharomyces cerevisiae</i> for whole-cell biocatalysis. <i>Journal of Biotechnology</i> , 2009, 142, 233-241.	3.8	33
44	Application of Dynamic Flux Analysis in Plant Metabolic Networks. , 2009, , 285-305.		4
45	Network Stoichiometry. , 2009, , 211-243.		7
46	Integrating cybernetic modeling with pathway analysis provides a dynamic, systems-level description of metabolic control. <i>Biotechnology and Bioengineering</i> , 2008, 100, 542-559.	3.3	72
47	Targeted metabolomic analysis of <i>Escherichia coli</i> by desorption electrospray ionization and extractive electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2008, 375, 272-281.	2.4	63
48	Expression of a flavonoid glucosyltransferase in yeast for whole-cell biocatalysis. <i>Journal of Biotechnology</i> , 2008, 136, S376.	3.8	0
49	A transient isotopic labeling methodology for ¹³ C metabolic flux analysis of photoautotrophic microorganisms. <i>Phytochemistry</i> , 2007, 68, 2302-2312.	2.9	93
50	Non-natural cinnamic acid derivatives as substrates of cinnamate 4-hydroxylase. <i>Phytochemistry</i> , 2007, 68, 306-311.	2.9	19
51	High throughput screening of heterologous P450 whole cell activity. <i>Enzyme and Microbial Technology</i> , 2006, 38, 760-764.	3.2	5
52	Flux Balance Analysis of Photoautotrophic Metabolism. <i>Biotechnology Progress</i> , 2005, 21, 1617-1626.	2.6	175
53	Metabolic Engineering of the Phenylpropanoid Pathway in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 2962-2969.	3.1	186
54	Production of C35 isoprenoids depends on H ₂ availability during cultivation of the hyperthermophile <i>Methanococcus jannaschii</i> . <i>Extremophiles</i> , 2004, 8, 13-21.	2.3	12

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55	Calculation of theoretical yields in metabolic networks. <i>Biochemistry and Molecular Biology Education</i> , 2004, 32, 314-318.	1.2	7
56	Optimization of an in vivo plant P450 monooxygenase system in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2004, 85, 130-137.	3.3	43
57	Salt-activation of nonhydrolase enzymes for use in organic solvents. <i>Biotechnology and Bioengineering</i> , 2004, 85, 456-459.	3.3	20
58	Cybernetic modeling of metabolism: towards a framework for rational design of recombinant organisms. <i>Chemical Engineering Science</i> , 2004, 59, 5041-5049.	3.8	5
59	Toward the development of a biocatalytic system for oxidation of p-xylene to terephthalic acid: oxidation of 1,4-benzenedimethanol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 18, 147-154.	1.8	31
60	Mathematical Modeling of Plant Metabolic Pathways. <i>Metabolic Engineering</i> , 2002, 4, 80-89.	7.0	123
61	Quantification of Metabolic Flux in Plant Secondary Metabolism by a Biogenetic Organizational Approach. <i>Metabolic Engineering</i> , 2002, 4, 257-262.	7.0	26
62	Parallel Synthesis and Biocatalytic Amplification of a Cross-Conjugated Cyclopentenone Library. <i>ACS Combinatorial Science</i> , 2001, 3, 346-353.	3.3	18
63	Effects of buffered media upon growth and alkaloid production of <i>Catharanthus roseus</i> hairy roots. <i>Applied Microbiology and Biotechnology</i> , 2000, 53, 262-265.	3.6	39
64	Determination of metabolic rate-limitations by precursor feeding in <i>Catharanthus roseus</i> hairy root cultures. <i>Journal of Biotechnology</i> , 2000, 79, 137-145.	3.8	106
65	Inhibitor studies of tabersonine metabolism in <i>C. roseus</i> hairy roots. <i>Phytochemistry</i> , 1999, 51, 61-68.	2.9	36
66	Plant "hairy root"™ culture. <i>Current Opinion in Biotechnology</i> , 1999, 10, 151-155.	6.6	239
67	Quantification of metabolites in the indole alkaloid pathways of <i>Catharanthus roseus</i> : Implications for metabolic engineering. , 1998, 58, 333-338.		57
68	Transient studies of light-adapted cultures of hairy roots of <i>Catharanthus roseus</i> : Growth and indole alkaloid accumulation. , 1998, 60, 670-678.		29