Nanette R Boyle

List of Publications by Year
in descending order

23 papers	1,609 citations	759233 12 h-index	752698 20 g-index
27 all docs	27 docs citations	27 times ranked	2228 citing authors

#	Article	IF	Citations
1	Three Acyltransferases and Nitrogen-responsive Regulator Are Implicated in Nitrogen Starvation-induced Triacylglycerol Accumulation in Chlamydomonas. Journal of Biological Chemistry, 2012, 287, 15811-15825.	3.4	379
2	Flux balance analysis of primary metabolism in Chlamydomonas reinhardtii. BMC Systems Biology, 2009, 3, 4.	3.0	351
3	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. Plant Cell, 2014, 26, 1410-1435.	6.6	314
4	Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a Chlamydomonas reinhardtii Starchless Mutant. Plant Cell, 2013, 25, 4305-4323.	6.6	176
5	Computation of metabolic fluxes and efficiencies for biological carbon dioxide fixation. Metabolic Engineering, 2011, 13, 150-158.	7.0	66
6	Genome Engineering in Cyanobacteria: Where We Are and Where We Need To Go. ACS Synthetic Biology, 2015, 4, 1186-1196.	3.8	53
7	Multiplexed tracking of combinatorial genomic mutations in engineered cell populations. Nature Biotechnology, 2015, 33, 631-637.	17.5	49
8	Engineering improved ethanol production in Escherichia coli with a genome-wide approach. Metabolic Engineering, 2013, 17, 1-11.	7.0	46
9	Metabolic flux analysis of heterotrophic growth in Chlamydomonas reinhardtii. PLoS ONE, 2017, 12, e0177292.	2.5	40
10	Recombineering to homogeneity: extension of multiplex recombineering to large‐scale genome editing. Biotechnology Journal, 2013, 8, 515-522.	3.5	24
11	The use of genome-scale metabolic network reconstruction to predict fluxes and equilibrium composition of N-fixing versus C-fixing cells in a diazotrophic cyanobacterium, Trichodesmium erythraeum. BMC Systems Biology, 2017, 11, 4.	3.0	18
12	Genome-Wide Identification of Genes Conferring Energy Related Resistance to a Synthetic Antimicrobial Peptide (Bac8c). PLoS ONE, 2013, 8, e55052.	2.5	15
13	Omics in Chlamydomonas for Biofuel Production. Sub-Cellular Biochemistry, 2016, 86, 447-469.	2.4	12
14	The challenge and potential of photosynthesis: unique considerations for metabolic flux measurements in photosynthetic microorganisms. Biotechnology Letters, 2019, 41, 35-45.	2.2	12
15	Multiscale Multiobjective Systems Analysis (MiMoSA): an advanced metabolic modeling framework for complex systems. Scientific Reports, 2019, 9, 16948.	3.3	11
16	Isotopically nonstationary 13C metabolic flux analysis in resting and activated human platelets. Metabolic Engineering, 2022, 69, 313-322.	7.0	10
17	Effectiveness of cationically modified cellulose polymers for dewatering algae. Separation Science and Technology, 2016, 51, 892-898.	2.5	8
18	Network Stoichiometry. , 2009, , 211-243.		7

#	Article	IF	Citations
19	Evaluation of quenching methods for metabolite recovery in photoautotrophic *Synechococcus* sp. PCC 7002. Biotechnology Progress, 2020, 36, e3015.	2.6	6
20	Rapid Annotation of Photosynthetic Systems (RAPS): automated algorithm to generate genome-scale metabolic networks from algal genomes. Algal Research, 2020, 50, 101967.	4.6	6
21	Characterizing Photosynthetic Biofuel Production: Isotopically Non-Stationary 13C Metabolic Flux Analysis on Limonene Producing Synechococcus sp. PCC 7002. Frontiers in Energy Research, 0, 10, .	2.3	3
22	Rhythm of the Night (and Day): Predictive Metabolic Modeling of Diurnal Growth in *Chlamydomonas*. MSystems, 2022, 7, .	3.8	2
23	Special Issue on Genome Engineering. ACS Synthetic Biology, 2015, 4, 1165-1166.	3.8	0