

# Colton J Lloyd

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/744726/publications.pdf>

Version: 2024-02-01

24  
papers

1,701  
citations

516710

16  
h-index

752698

20  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1749  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Pangenome analysis of Enterobacteria reveals richness of secondary metabolite gene clusters and their associated gene sets. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 900-910.   | 3.7  | 9         |
| 2  | Computation of condition-dependent proteome allocation reveals variability in the macro and micro nutrient requirements for growth. <i>PLoS Computational Biology</i> , 2021, 17, e1007817.  | 3.2  | 3         |
| 3  | Genome-scale metabolic modeling reveals key features of a minimal gene set. <i>Molecular Systems Biology</i> , 2021, 17, e10099.   | 7.2  | 15        |
| 4  | Kinetic profiling of metabolic specialists demonstrates stability and consistency of in vivo enzyme turnover numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23182-23190. | 7.1  | 65        |
| 5  | Reconstructing organisms in silico: genome-scale models and their emerging applications. <i>Nature Reviews Microbiology</i> , 2020, 18, 731-743.   | 28.6 | 158       |
| 6  | Cellular responses to reactive oxygen species are predicted from molecular mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14368-14373.                                | 7.1  | 79        |
| 7  | DynamicME: dynamic simulation and refinement of integrated models of metabolism and protein expression. <i>BMC Systems Biology</i> , 2019, 13, 2.  | 3.0  | 45        |
| 8  | BOFdat: Generating biomass objective functions for genome-scale metabolic models from experimental data. <i>PLoS Computational Biology</i> , 2019, 15, e1006971.   | 3.2  | 83        |
| 9  | The genetic basis for adaptation of model-designed syntrophic co-cultures. <i>PLoS Computational Biology</i> , 2019, 15, e1006213.   | 3.2  | 17        |
| 10 | Predicting proteome allocation, overflow metabolism, and metal requirements in a model acetogen. <i>PLoS Computational Biology</i> , 2019, 15, e1006848.   | 3.2  | 46        |
| 11 | Genome-scale model of metabolism and gene expression provides a multi-scale description of acid stress responses in <i>Escherichia coli</i> . <i>PLoS Computational Biology</i> , 2019, 15, e1007525.                                  | 3.2  | 37        |
| 12 | Title is missing!. , 2019, 15, e1007525.   |      | 0         |
| 13 | Title is missing!. , 2019, 15, e1007525.   |      | 0         |
| 14 | Title is missing!. , 2019, 15, e1007525.   |      | 0         |
| 15 | Title is missing!. , 2019, 15, e1007525.   |      | 0         |
| 16 | Machine learning applied to enzyme turnover numbers reveals protein structural correlates and improves metabolic models. <i>Nature Communications</i> , 2018, 9, 5252.   | 12.8 | 151       |
| 17 | COBRAME: A computational framework for genome-scale models of metabolism and gene expression. <i>PLoS Computational Biology</i> , 2018, 14, e1006302.  | 3.2  | 123       |
| 18 | Laboratory Evolution to Alternating Substrate Environments Yields Distinct Phenotypic and Genetic Adaptive Strategies. <i>Applied and Environmental Microbiology</i> , 2017, 83, .   | 3.1  | 76        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | iML1515, a knowledgebase that computes <i>Escherichia coli</i> traits. <i>Nature Biotechnology</i> , 2017, 35, 904-908.  | 17.5 | 425       |
| 20 | Global transcriptional regulatory network for <i>Escherichia coli</i> robustly connects gene expression to transcription factor activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10286-10291. | 7.1  | 89        |
| 21 | solveME: fast and reliable solution of nonlinear ME models. <i>BMC Bioinformatics</i> , 2016, 17, 391.   | 2.6  | 39        |
| 22 | Principles of proteome allocation are revealed using proteomic data and genome-scale models. <i>Scientific Reports</i> , 2016, 6, 36734.   | 3.3  | 31        |
| 23 | Next-generation genome-scale models for metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2015, 35, 23-29.  | 6.6  | 144       |
| 24 | Systems biology definition of the core proteome of metabolism and expression is consistent with high-throughput data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10810-10815.                       | 7.1  | 42        |