

Daniel Amador-Noguez

List of Publications by Year in descending order

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68
papers

4,767
citations

147801

31
h-index

106344

65
g-index

76
all docs

76
docs citations

76
times ranked

7707
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for an Alternative Glycolytic Pathway in Rapidly Proliferating Cells. <i>Science</i> , 2010, 329, 1492-1499.	12.6	586
2	Intestinal Microbiota Composition Modulates Choline Bioavailability from Diet and Accumulation of the Proatherogenic Metabolite Trimethylamine- <i>N</i> -Oxide. <i>MBio</i> , 2015, 6, e02481.	4.1	535
3	Metabolomic Analysis via Reversed-Phase Ion-Pairing Liquid Chromatography Coupled to a Stand Alone Orbitrap Mass Spectrometer. <i>Analytical Chemistry</i> , 2010, 82, 3212-3221.	6.5	453
4	Metabolite concentrations, fluxes and free energies imply efficient enzyme usage. <i>Nature Chemical Biology</i> , 2016, 12, 482-489.	8.0	332
5	Stoichiometry of Site-specific Lysine Acetylation in an Entire Proteome. <i>Journal of Biological Chemistry</i> , 2014, 289, 21326-21338.	3.4	157
6	Metabolic, Epigenetic, and Transgenerational Effects of Gut Bacterial Choline Consumption. <i>Cell Host and Microbe</i> , 2017, 22, 279-290.e7.	11.0	144
7	Systems-Level Metabolic Flux Profiling Elucidates a Complete, Bifurcated Tricarboxylic Acid Cycle in <i>Clostridium acetobutylicum</i> . <i>Journal of Bacteriology</i> , 2010, 192, 4452-4461.	2.2	122
8	Alterations in xenobiotic metabolism in the long-lived Little mice. <i>Aging Cell</i> , 2007, 6, 453-470.	6.7	119
9	Gene expression profile of long-lived Ames dwarf mice and Little mice. <i>Aging Cell</i> , 2004, 3, 423-441.	6.7	114
10	Metabolome Remodeling during the Acidogenic-Solventogenic Transition in <i>Clostridium acetobutylicum</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 7984-7997.	3.1	105
11	The exometabolome of <i>Clostridium thermocellum</i> reveals overflow metabolism at high cellulose loading. <i>Biotechnology for Biofuels</i> , 2014, 7, 155.	6.2	96
12	Metabolic Remodeling during Biofilm Development of <i>Bacillus subtilis</i> . <i>MBio</i> , 2019, 10, .	4.1	93
13	Toward low-cost biological and hybrid biological/catalytic conversion of cellulosic biomass to fuels. <i>Energy and Environmental Science</i> , 2022, 15, 938-990.	30.8	93
14	Molecular Mechanism and Evolution of Guanylate Kinase Regulation by (p)ppGpp. <i>Molecular Cell</i> , 2015, 57, 735-749.	9.7	88
15	A metabolic pathway for catabolizing levulinic acid in bacteria. <i>Nature Microbiology</i> , 2017, 2, 1624-1634.	13.3	86
16	Design of synthetic human gut microbiome assembly and butyrate production. <i>Nature Communications</i> , 2021, 12, 3254.	12.8	83
17	Genetic determinants of gut microbiota composition and bile acid profiles in mice. <i>PLoS Genetics</i> , 2019, 15, e1008073.	3.5	75
18	Ultrasensitive regulation of anapleurosis via allosteric activation of PEP carboxylase. <i>Nature Chemical Biology</i> , 2012, 8, 562-568.	8.0	72

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19	Dominant Bacterial Phyla from the Human Gut Show Widespread Ability To Transform and Conjugate Bile Acids. <i>MSystems</i> , 2021, 6, e0080521.	3.8	70
20	Steady-State Metabolite Concentrations Reflect a Balance between Maximizing Enzyme Efficiency and Minimizing Total Metabolite Load. <i>PLoS ONE</i> , 2013, 8, e75370.	2.5	67
21	Autotrophic and mixotrophic metabolism of an anammox bacterium revealed by in vivo ¹³ C and ² H metabolic network mapping. <i>ISME Journal</i> , 2021, 15, 673-687.	9.8	64
22	Glycolysis without pyruvate kinase in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , 2017, 39, 169-180.	7.0	62
23	Near-equilibrium glycolysis supports metabolic homeostasis and energy yield. <i>Nature Chemical Biology</i> , 2019, 15, 1001-1008.	8.0	60
24	Post-translational modifications as key regulators of bacterial metabolic fluxes. <i>Current Opinion in Microbiology</i> , 2015, 24, 29-37.	5.1	56
25	Identification of Unanticipated and Novel N-Acyl L-Homoserine Lactones (AHLs) Using a Sensitive Non-Targeted LC-MS/MS Method. <i>PLoS ONE</i> , 2016, 11, e0163469.	2.5	55
26	² H and ¹³ C metabolic flux analysis elucidates in vivo thermodynamics of the ED pathway in <i>Zymomonas mobilis</i> . <i>Metabolic Engineering</i> , 2019, 54, 301-316.	7.0	51
27	Metabolic and evolutionary responses of <i>Clostridium thermocellum</i> to genetic interventions aimed at improving ethanol production. <i>Biotechnology for Biofuels</i> , 2020, 13, 40.	6.2	49
28	Recent applications of metabolomics to advance microbial biofuel production. <i>Current Opinion in Biotechnology</i> , 2017, 43, 118-126.	6.6	46
29	Thermodynamic analysis of the pathway for ethanol production from cellobiose in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , 2019, 55, 161-169.	7.0	44
30	Gender-specific alterations in gene expression and loss of liver sexual dimorphism in the long-lived Ames dwarf mice. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 1086-1100.	2.1	41
31	The nucleotide pGpp acts as a third alarmone in <i>Bacillus</i> , with functions distinct from those of (p)ppGpp. <i>Nature Communications</i> , 2020, 11, 5388.	12.8	41
32	OptSSeq explores enzyme expression and function landscapes to maximize isobutanol production rate. <i>Metabolic Engineering</i> , 2019, 52, 324-340.	7.0	36
33	Dual metabolomic profiling uncovers <i>Toxoplasma</i> manipulation of the host metabolome and the discovery of a novel parasite metabolic capability. <i>PLoS Pathogens</i> , 2020, 16, e1008432.	4.7	34
34	<i>De Novo</i> Amino Acid Biosynthesis Contributes to <i>Salmonella enterica</i> Growth in Alfalfa Seedling Exudates. <i>Applied and Environmental Microbiology</i> , 2015, 81, 861-873.	3.1	31
35	Phenolic Amides Are Potent Inhibitors of <i>De Novo</i> Nucleotide Biosynthesis. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5761-5772.	3.1	31
36	<i>In Vivo</i> Thermodynamic Analysis of Glycolysis in <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> Using ¹³ C and ² H Tracers. <i>MSystems</i> , 2020, 5, .	3.8	31

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37	Small Alarmone Synthetase SasA Expression Leads to Concomitant Accumulation of pGpp, ppApp, and AppppA in <i>Bacillus subtilis</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 2083.	3.5	30
38	Transcriptomic, Protein-DNA Interaction, and Metabolomic Studies of VosA, VelB, and WetA in <i>Aspergillus nidulans</i> Asexual Spores. <i>MBio</i> , 2021, 12, .	4.1	29
39	Cardiac Function in Young and Old Little Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 1319-1325.	3.6	27
40	Deletion of Type I glutamine synthetase deregulates nitrogen metabolism and increases ethanol production in <i>Clostridium thermocellum</i> . <i>Metabolic Engineering</i> , 2017, 41, 182-191.	7.0	27
41	Metabolome analysis reveals a role for glyceraldehyde 3-phosphate dehydrogenase in the inhibition of <i>C. thermocellum</i> by ethanol. <i>Biotechnology for Biofuels</i> , 2017, 10, 276.	6.2	27
42	Systems-Level Analysis of Oxygen Exposure in <i>Zymomonas mobilis</i> : Implications for Isoprenoid Production. <i>MSystems</i> , 2019, 4, .	3.8	27
43	Negative interactions determine <i>Clostridioides difficile</i> growth in synthetic human gut communities. <i>Molecular Systems Biology</i> , 2021, 17, e10355.	7.2	27
44	Regulated redirection of central carbon flux enhances anaerobic production of bioproducts in <i>Zymomonas mobilis</i> . <i>Metabolic Engineering</i> , 2020, 61, 261-274.	7.0	26
45	TrpE feedback mutants reveal roadblocks and conduits toward increasing secondary metabolism in <i>Aspergillus fumigatus</i> . <i>Fungal Genetics and Biology</i> , 2016, 89, 102-113.	2.1	24
46	Cytochrome P450 Monooxygenase-Mediated Metabolic Utilization of Benzo[a]Pyrene by <i>Aspergillus</i> Species. <i>MBio</i> , 2019, 10, .	4.1	22
47	Fecal Aliquot Straw Technique (FAST) allows for easy and reproducible subsampling: assessing interpersonal variation in trimethylamine-N-oxide (TMAO) accumulation. <i>Microbiome</i> , 2018, 6, 91.	11.1	20
48	Metabolic flux analysis and fluxomics-driven determination of reaction free energy using multiple isotopes. <i>Current Opinion in Biotechnology</i> , 2020, 64, 151-160.	6.6	19
49	Hostile Takeover: How Viruses Reprogram Prokaryotic Metabolism. <i>Annual Review of Microbiology</i> , 2021, 75, 515-539.	7.3	19
50	The thermophilic biomass-degrading bacterium <i>Caldicellulosiruptor bescii</i> utilizes two enzymes to oxidize glyceraldehyde 3-phosphate during glycolysis. <i>Journal of Biological Chemistry</i> , 2019, 294, 9995-10005.	3.4	18
51	Different Functions of Phylogenetically Distinct Bacterial Complex I Isozymes. <i>Journal of Bacteriology</i> , 2016, 198, 1268-1280.	2.2	16
52	Stepwise genetic engineering of <i>Pseudomonas putida</i> enables robust heterologous production of prodigiosin and glidobactin A. <i>Metabolic Engineering</i> , 2021, 67, 112-124.	7.0	16
53	Cyclooxygenase-1 and -2 Play Contrasting Roles in <i>Listeria</i> -Stimulated Immunity. <i>Journal of Immunology</i> , 2018, 200, 3729-3738.	0.8	15
54	act Actinobacteria Assemble a Functional Actinorhodopsin with Natively Synthesized Retinal. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	15

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55	The pentose phosphate pathway of cellulolytic clostridia relies on 6-phosphofructokinase instead of transaldolase. <i>Journal of Biological Chemistry</i> , 2020, 295, 1867-1878.	3.4	14
56	Genome Wide Phosphoproteome Analysis of <i>Zymomonas mobilis</i> Under Anaerobic, Aerobic, and N ₂ -Fixing Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 1986.	3.5	13
57	Liquid Crystal Emulsions That Intercept and Report on Bacterial Quorum Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29056-29065.	8.0	13
58	Expression of Phosphofructokinase Is Not Sufficient to Enable Embden-Meyerhof-Parnas Glycolysis in <i>Zymomonas mobilis</i> ZM4. <i>Frontiers in Microbiology</i> , 2019, 10, 2270.	3.5	12
59	Reformulation of an extant ATPase active site to mimic ancestral GTPase activity reveals a nucleotide base requirement for function. <i>ELife</i> , 2021, 10, .	6.0	12
60	Few Differences in Metabolic Network Use Found Between <i>Salmonella enterica</i> Colonization of Plants and Typhoidal Mice. <i>Frontiers in Microbiology</i> , 2018, 9, 695.	3.5	10
61	Investigating the Chemolithoautotrophic and Formate Metabolism of <i>Nitrospira moscoviensis</i> by Constraint-Based Metabolic Modeling and ¹³ C-Tracer Analysis. <i>MSystems</i> , 2021, 6, e0017321.	3.8	8
62	Metabolic Fluxes of Nitrogen and Pyrophosphate in Chemostat Cultures of <i>Clostridium thermocellum</i> and <i>Thermoanaerobacterium saccharolyticum</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	7
63	Assessing the impact of substrate-level enzyme regulations limiting ethanol titer in <i>Clostridium thermocellum</i> using a core kinetic model. <i>Metabolic Engineering</i> , 2022, 69, 286-301.	7.0	7
64	Developing a Cell-Free Extract Reaction (CFER) System in <i>Clostridium thermocellum</i> to Identify Metabolic Limitations to Ethanol Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	5
65	Metabolic Remodeling during Nitrogen Fixation in <i>Zymomonas mobilis</i> . <i>MSystems</i> , 2021, 6, e0098721.	3.8	5
66	Novel computational and experimental approaches for investigating the thermodynamics of metabolic networks. <i>Current Opinion in Microbiology</i> , 2022, 66, 21-31.	5.1	5
67	Comparative functional genomics identifies an iron-limited bottleneck in a <i>Saccharomyces cerevisiae</i> strain with a cytosolic-localized isobutanol pathway. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 738-749.	3.7	4
68	Phagocytes produce prostaglandin E2 in response to cytosolic <i>Listeria monocytogenes</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009493.	4.7	3