

Mark P Styczynski

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,416
citations

430754

18
h-index

345118

36
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59
all docs

59
docs citations

59
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	Diverse classes of constraints enable broader applicability of a linear programming-based dynamic metabolic modeling framework. <i>Scientific Reports</i> , 2022, 12, 762.	1.6	0
2	Metabolomics Analysis of Cell-Free Systems Using. <i>Methods in Molecular Biology</i> , 2022, 2433, 217-226.	0.4	0
3	Systems biology-based analysis of cell-free systems. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102703.	3.3	4
4	Untargeted plasma metabolomic analysis of wild bottlenose dolphins (<i>Tursiops truncatus</i>) indicate protein degradation when in poorer health. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2022, 42, 100991.	0.4	1
5	Nucleic Acid Partitioning in PEG-Ficoll Protocells. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1964-1971.	1.0	1
6	Low-cost, point-of-care biomarker quantification. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102738.	3.3	9
7	SCOUR: a stepwise machine learning framework for predicting metabolite-dependent regulatory interactions. <i>BMC Bioinformatics</i> , 2021, 22, 365.	1.2	2
8	Effective Use of Linear DNA in Cell-Free Expression Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 715328.	2.0	15
9	Dramatic transcriptomic differences in <i>Macaca mulatta</i> and <i>Macaca fascicularis</i> with <i>Plasmodium knowlesi</i> infections. <i>Scientific Reports</i> , 2021, 11, 19519.	1.6	5
10	Metabolic Dynamics in <i>Escherichia coli</i> -Based Cell-Free Systems. <i>ACS Synthetic Biology</i> , 2021, 10, 2252-2265.	1.9	11
11	Protocell arrays for simultaneous detection of diverse analytes. <i>Nature Communications</i> , 2021, 12, 5724.	5.8	18
12	Point-of-Care Analyte Quantification and Digital Readout <i>via</i> Lysate-Based Cell-Free Biosensors Interfaced with Personal Glucose Monitors. <i>ACS Synthetic Biology</i> , 2021, 10, 2862-2869.	1.9	6
13	LK-DFBA: a linear programming-based modeling strategy for capturing dynamics and metabolite-dependent regulation in metabolism. <i>BMC Bioinformatics</i> , 2020, 21, 93.	1.2	7
14	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , 2020, 6, 192-204.	3.8	162
15	Active Analyte Import Improves the Dynamic Range and Sensitivity of a Vitamin B ₁₂ Biosensor. <i>ACS Synthetic Biology</i> , 2020, 9, 402-411.	1.9	22
16	ElectroPen: An ultra-low-cost, electricity-free, portable electroporator. <i>PLoS Biology</i> , 2020, 18, e3000589.	2.6	16
17	Humoral immunity prevents clinical malaria during <i>Plasmodium</i> relapses without eliminating gametocytes. <i>PLoS Pathogens</i> , 2019, 15, e1007974.	2.1	17
18	Metabolic Profiling of <i>Escherichia coli</i> -Based Cell-Free Expression Systems for Process Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22472-22482.	1.8	30

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19	Point-of-care biomarker quantification enabled by sample-specific calibration. <i>Science Advances</i> , 2019, 5, eaax4473.	4.7	73
20	The Metabolomics Societyâ€™ Current State of the Membership and Future Directions. <i>Metabolites</i> , 2019, 9, 89.	1.3	2
21	Gas Chromatographyâ€™Mass Spectrometry Microbial Metabolomics for Applications in Strain Optimization. <i>Methods in Molecular Biology</i> , 2019, 1927, 179-189.	0.4	1
22	Dynamic and tunable metabolite control for robust minimal-equipment assessment of serum zinc. <i>Nature Communications</i> , 2019, 10, 5514.	5.8	26
23	Small molecule signaling, regulation, and potential applications in cellular therapeutics. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2018, 10, e1405.	6.6	14
24	Metabolic modeling helps interpret transcriptomic changes during malaria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2329-2340.	1.8	18
25	NS-kNN: a modified k-nearest neighbors approach for imputing metabolomics data. <i>Metabolomics</i> , 2018, 14, 153.	1.4	44
26	Systems Biology-Based Investigation of Hostâ€™Plasmodium Interactions. <i>Trends in Parasitology</i> , 2018, 34, 617-632.	1.5	19
27	Metabolomics Analysis of the Toxic Effects of the Production of Lycopene and Its Precursors. <i>Frontiers in Microbiology</i> , 2018, 9, 760.	1.5	19
28	Development of a Pigment-Based Whole-Cell Zinc Biosensor for Human Serum. <i>ACS Synthetic Biology</i> , 2018, 7, 267-275.	1.9	59
29	Precise control of lycopene production to enable a fast-responding, minimal-equipment biosensor. <i>Metabolic Engineering</i> , 2017, 43, 46-53.	3.6	23
30	Integrative analysis associates monocytes with insufficient erythropoiesis during acute Plasmodium cynomolgi malaria in rhesus macaques. <i>Malaria Journal</i> , 2017, 16, 384.	0.8	20
31	Live demonstration: A 1024-pixel CMOS multi-modality sensing array for cell-based assays. , 2016, , .		1
32	Editorial overview: Systems biology-the intersection of experiments and computation, underpinning biotechnology. <i>Current Opinion in Biotechnology</i> , 2016, 39, iv-vi.	3.3	0
33	OVCAR-3 Spheroid-Derived Cells Display Distinct Metabolic Profiles. <i>PLoS ONE</i> , 2015, 10, e0118262.	1.1	29
34	A tree-like Bayesian structure learning algorithm for small-sample datasets from complex biological model systems. <i>BMC Systems Biology</i> , 2015, 9, 49.	3.0	6
35	A Multi-Modality CMOS Sensor Array for Cell-Based Assay and Drug Screening. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015, 9, 801-814.	2.7	65
36	Differential metabolite levels in response to spawning-induced inappetence in Atlantic salmon <i>Salmo salar</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2015, 13, 52-59.	0.4	13

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37	From genome-scale data to models of infectious disease: A Bayesian network-based strategy to drive model development. <i>Mathematical Biosciences</i> , 2015, 270, 156-168.	0.9	8
38	Precise metabolic engineering of carotenoid biosynthesis in <i>Escherichia coli</i> towards a low-cost biosensor. <i>Metabolic Engineering</i> , 2015, 31, 171-180.	3.6	28
39	Precision metabolic engineering: The design of responsive, selective, and controllable metabolic systems. <i>Metabolic Engineering</i> , 2015, 31, 123-131.	3.6	56
40	Manipulation of metabolism in complex eukaryotic systems to control cellular state. <i>Current Opinion in Chemical Engineering</i> , 2015, 10, 63-69.	3.8	4
41	Improved metabolite profile smoothing for flux estimation. <i>Molecular BioSystems</i> , 2015, 11, 2394-2405.	2.9	6
42	Metabolomics identifies the intersection of phosphoethanolamine with menaquinone-triggered apoptosis in an in vitro model of leukemia. <i>Molecular BioSystems</i> , 2015, 11, 2406-2416.	2.9	25
43	Comparative transcriptomics and metabolomics in a rhesus macaque drug administration study. <i>Frontiers in Cell and Developmental Biology</i> , 2014, 2, 54.	1.8	15
44	Distinct metabolic responses of an ovarian cancer stem cell line. <i>BMC Systems Biology</i> , 2014, 8, 134.	3.0	23
45	Applications of metabolomics in cancer research. <i>Journal of Carcinogenesis</i> , 2013, 12, 9.	2.5	83
46	Systematic Applications of Metabolomics in Metabolic Engineering. <i>Metabolites</i> , 2012, 2, 1090-1122.	1.3	20
47	BLOSUM62 miscalculations improve search performance. <i>Nature Biotechnology</i> , 2008, 26, 274-275.	9.4	79
48	Systematic Identification of Conserved Metabolites in GC/MS Data for Metabolomics and Biomarker Discovery. <i>Analytical Chemistry</i> , 2007, 79, 966-973.	3.2	223
49	Overview of computational methods for the inference of gene regulatory networks. <i>Computers and Chemical Engineering</i> , 2005, 29, 519-534.	2.0	48
50	Reliable computation of equilibrium states and bifurcations in food chain models. <i>Computers and Chemical Engineering</i> , 2004, 28, 1981-1996.	2.0	9
51	An extension and novel solution to the (l,d)-motif challenge problem. <i>Genome Informatics</i> , 2004, 15, 63-71.	0.4	11