Ilias Tagkopoulos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Adaptive laboratory evolution for improved tolerance of isobutyl acetate in Escherichia coli. Metabolic Engineering, 2022, 69, 50-58.	7.0	13
2	Special report: Al Institute for next generation food systems (AIFS). Computers and Electronics in Agriculture, 2022, 196, 106819.	7.7	1
3	Knowledge integration and decision support for accelerated discovery of antibiotic resistance genes. Nature Communications, 2022, 13, 2360.	12.8	5
4	Understanding the Formation and Mechanism of Anticipatory Responses in Escherichia coli. International Journal of Molecular Sciences, 2022, 23, 5985.	4.1	1
5	Biocide-Induced Emergence of Antibiotic Resistance in Escherichia coli. Frontiers in Microbiology, 2021, 12, 640923.	3.5	43
6	Methane and fatty acid metabolism pathways are predictive of Low-FODMAP diet efficacy for patients with irritable bowel syndrome. Clinical Nutrition, 2021, 40, 4414-4421.	5.0	22
7	Tolerance to Glutaraldehyde in Escherichia coli Mediated by Overexpression of the Aldehyde Reductase YqhD by YqhC. Frontiers in Microbiology, 2021, 12, 680553.	3.5	5
8	Preliminary Techno-Economic Assessment of Animal Cell-Based Meat. Foods, 2021, 10, 3.	4.3	27
9	Reduced Graphene Oxide-Metalloporphyrin Sensors for Human Breath Screening. Applied Sciences (Switzerland), 2021, 11, 11290.	2.5	8
10	Novel classification of axial spondyloarthritis to predict radiographic progression using machine learning. Clinical and Experimental Rheumatology, 2021, 39, 508-518.	0.8	2
11	Novel classification of axial spondyloarthritis to predict radiographic progression using machine learning. Clinical and Experimental Rheumatology, 2021, 39, 508-518.	0.8	3
12	Identification of Differential, Health-Related Compounds in Chardonnay Marc through Network-Based Meta-Analysis. Current Developments in Nutrition, 2020, 4, nzaa045_108.	0.3	1
13	Network-based modeling of drug effects on disease module in systemic sclerosis. Scientific Reports, 2020, 10, 13393.	3.3	9
14	Accelerated knowledge discovery from omics data by optimal experimental design. Nature Communications, 2020, 11, 5026.	12.8	15
15	Discovery, Design, and Structural Characterization of Alkane-Producing Enzymes across the Ferritin-like Superfamily. Biochemistry, 2020, 59, 3834-3843.	2.5	11
16	Short- and Long-Term Transcriptomic Responses of Escherichia coli to Biocides: a Systems Analysis. Applied and Environmental Microbiology, 2020, 86, .	3.1	13
17	The Computational Diet: A Review of Computational Methods Across Diet, Microbiome, and Health. Frontiers in Microbiology, 2020, 11, 393.	3.5	32
18	Using Word Embeddings to Learn a Better Food Ontology. Frontiers in Artificial Intelligence, 2020, 3, 584784.	3.4	8

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19	BWCNN: Blink to Word, a Real-Time Convolutional Neural Network Approach. Lecture Notes in Computer Science, 2020, , 133-140.	1.3	4
20	Predicting early risk of chronic kidney disease in cats using routine clinical laboratory tests and machine learning. Journal of Veterinary Internal Medicine, 2019, 33, 2644-2656.	1.6	36
21	Benzalkonium Chlorides: Uses, Regulatory Status, and Microbial Resistance. Applied and Environmental Microbiology, 2019, 85, .	3.1	178
22	Compendium of synovial signatures identifies pathologic characteristics for predicting treatment response in rheumatoid arthritis patients. Clinical Immunology, 2019, 202, 1-10.	3.2	21
23	Compendium of skin molecular signatures identifies key pathological features associated with fibrosis in systemic sclerosis. Annals of the Rheumatic Diseases, 2019, 78, 817-825.	0.9	32
24	Nutrient Estimation from 24-Hour Food Recalls Using Machine Learning and Database Mapping: A Case Study with Lactose. Nutrients, 2019, 11, 3045.	4.1	22
25	Genetic Neural Networks: an artificial neural network architecture for capturing gene expression relationships. Bioinformatics, 2019, 35, 2226-2234.	4.1	27
26	Population collapse and adaptive rescue during longâ€ŧerm chemostat fermentation. Biotechnology and Bioengineering, 2019, 116, 693-703.	3.3	9
27	Application of machine learning in rheumatic disease research. Korean Journal of Internal Medicine, 2019, 34, 708-722.	1.7	48
28	Data integration and predictive modeling methods for multi-omics datasets. Molecular Omics, 2018, 14, 8-25.	2.8	73
29	Predicting the evolution of Escherichia coli by a data-driven approach. Nature Communications, 2018, 9, 3562.	12.8	26
30	The genetic and transcriptional basis of short and long term adaptation across multiple stresses in <i>Escherichia coli</i> . Molecular Biology and Evolution, 2017, 34, msw269.	8.9	35
31	Integrated omics analyses of retrograde signaling mutant delineate interrelated stressâ€response strata. Plant Journal, 2017, 91, 70-84.	5.7	36
32	Elucidating Substrate Promiscuity within the Fabl Enzyme Family. ACS Chemical Biology, 2017, 12, 2465-2473.	3.4	17
33	DeepPep: Deep proteome inference from peptide profiles. PLoS Computational Biology, 2017, 13, e1005661.	3.2	22
34	A Parts Database with Consensus Parameter Estimation for Synthetic Circuit Design. ACS Synthetic Biology, 2016, 5, 1412-1420.	3.8	13
35	Multi-omics integration accurately predicts cellular state in unexplored conditions for Escherichia coli. Nature Communications, 2016, 7, 13090.	12.8	123
36	A dataâ€driven, machine learning framework for optimal pest management in cotton. Ecosphere, 2016, 7, e01263.	2.2	5

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37	Kinetic Characterization of 100 Glycoside Hydrolase Mutants Enables the Discovery of Structural Features Correlated with Kinetic Constants. PLoS ONE, 2016, 11, e0147596.	2.5	42
38	Microbial Forensics: Predicting Phenotypic Characteristics and Environmental Conditions from Large-Scale Gene Expression Profiles. PLoS Computational Biology, 2015, 11, e1004127.	3.2	26
39	RiboTALE: A modular, inducible system for accurate gene expression control. Scientific Reports, 2015, 5, 10658.	3.3	5
40	Fast and Accurate Circuit Design Automation through Hierarchical Model Switching. ACS Synthetic Biology, 2015, 4, 890-897.	3.8	8
41	An Arabidopsis gene regulatory network for secondary cell wall synthesis. Nature, 2015, 517, 571-575.	27.8	636
42	From Data to Optimal Decision Making: A Data-Driven, Probabilistic Machine Learning Approach to Decision Support for Patients With Sepsis. JMIR Medical Informatics, 2015, 3, e11.	2.6	62
43	A systems biology analysis of brain microvascular endothelial cell lipotoxicity. BMC Systems Biology, 2014, 8, 80.	3.0	14
44	An integrative, multiâ€scale, genomeâ€wide model reveals the phenotypic landscape of <i><scp>E</scp>scherichia coli</i> . Molecular Systems Biology, 2014, 10, 735.	7.2	73
45	Optimal Part and Module Selection for Synthetic Gene Circuit Design Automation. ACS Synthetic Biology, 2014, 3, 556-564.	3.8	22
46	From vital signs to clinical outcomes for patients with sepsis: a machine learning basis for a clinical decision support system. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 315-325.	4.4	139
47	A flood-based information flow analysis and network minimization method for gene regulatory networks. BMC Bioinformatics, 2013, 14, 137.	2.6	3
48	Promoter Element Arising from the Fusion of Standard BioBrick Parts. ACS Synthetic Biology, 2013, 2, 111-120.	3.8	15
49	SBROME: A Scalable Optimization and Module Matching Framework for Automated Biosystems Design. ACS Synthetic Biology, 2013, 2, 263-273.	3.8	42
50	Microbial evolution in vivo and in silico: methods and applications. Integrative Biology (United) Tj ETQq0 0 0 rgB	T /Qyerloc	k 10 Tf 50 22 18
51	Evolutionary potential, crossâ€ s tress behavior and the genetic basis of acquired stress resistance in <i>Escherichia coli</i> . Molecular Systems Biology, 2013, 9, 643.	7.2	115
52	Microbial factories under control. Bioengineered, 2013, 4, 5-8.	3.2	4
53	A Bayesian network for early diagnosis of sepsis patients: a basis for a clinical decision support system. , 2012, , .		7
54	Transcriptional Network Analysis Identifies BACH1 as a Master Regulator of Breast Cancer Bone Metastasis. Journal of Biological Chemistry, 2012, 287, 33533-33544.	3.4	118

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55	A robust, library-based, optimization-driven method for automatic gene circuit design. , 2012, , .		0
56	Automatic Design of Synthetic Gene Circuits through Mixed Integer Non-linear Programming. PLoS ONE, 2012, 7, e35529.	2.5	22
57	A synthetic biology approach to self-regulatory recombinant protein production in Escherichia coli. Journal of Biological Engineering, 2012, 6, 2.	4.7	39
58	Guided evolution of in silico microbial populations in complex environments accelerates evolutionary rates through a step-wise adaptation. BMC Bioinformatics, 2012, 13, S10.	2.6	9
59	Horizontal gene transfer dynamics and distribution of fitness effects during microbial in silico evolution. BMC Bioinformatics, 2012, 13, S13.	2.6	31
60	A scalable multi-scale framework for parallel simulation and visualization of microbial evolution. , 2011, , .		4
61	Predictive Behavior within Microbial Genetic Networks. Topologica, 2009, 2, 018.	0.3	3
62	Predictive Behavior Within Microbial Genetic Networks. Science, 2008, 320, 1313-1317.	12.6	414
63	SYMMETRIC AND ASYMMETRIC MULTI-MODALITY BICLUSTERING ANALYSIS FOR MICROARRAY DATA MATRIX. Journal of Bioinformatics and Computational Biology, 2006, 04, 275-298.	0.8	7