

Jean-Daniel Zucker

List of Publications by Year in descending order

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132
papers

13,491
citations

81900

39
h-index

45317

90
g-index

140
all docs

140
docs citations

140
times ranked

17667
citing authors

#	ARTICLE	IF	CITATIONS
1	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism. <i>Gut</i> , 2022, 71, 2463-2480.	12.1	53
2	Microbiome and metabolome features of the cardiometabolic disease spectrum. <i>Nature Medicine</i> , 2022, 28, 303-314.	30.7	102
3	Characterization of the Gut Microbiota in Individuals with Overweight or Obesity during a Real-World Weight Loss Dietary Program: A Focus on the Bacteroides 2 Enterotype. <i>Biomedicines</i> , 2022, 10, 16.	3.2	8
4	The human gut microbiota contributes to type-2 diabetes non-resolution 5-years after Roux-en-Y gastric bypass. <i>Gut Microbes</i> , 2022, 14, 2050635.	9.8	15
5	Exploring multi-modal evacuation strategies for a landlocked population using large-scale agent-based simulations. <i>International Journal of Geographical Information Science</i> , 2022, 36, 1741-1783.	4.8	1
6	L'IA au service des maladies métaboliques. <i>Medicine Des Maladies Metaboliques</i> , 2021, 15, 70-79.	0.1	0
7	Protein supplementation during an energy-restricted diet induces visceral fat loss and gut microbiota amino acid metabolism activation: a randomized trial. <i>Scientific Reports</i> , 2021, 11, 15620.	3.3	9
8	Exploring Semi-Quantitative Metagenomic Studies Using Oxford Nanopore Sequencing: A Computational and Experimental Protocol. <i>Genes</i> , 2021, 12, 1496.	2.4	11
9	Deep learning analysis of electrocardiogram for risk prediction of drug-induced arrhythmias and diagnosis of long QT syndrome. <i>European Heart Journal</i> , 2021, 42, 3948-3961.	2.2	27
10	Combinatorial, additive and dose-dependent drug-microbiome associations. <i>Nature</i> , 2021, 600, 500-505.	27.8	102
11	Reject and Cascade Classifier with Subgroup Discovery for Interpretable Metagenomic Signatures. <i>Communications in Computer and Information Science</i> , 2021, , 49-66.	0.5	1
12	Using Unlabeled Data to Discover Bivariate Causality with Deep Restricted Boltzmann Machines. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020, 17, 358-364.	3.0	0
13	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. <i>Nature Communications</i> , 2020, 11, 5881.	12.8	122
14	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. <i>Nature</i> , 2020, 581, 310-315.	27.8	283
15	Interpretable and accurate prediction models for metagenomics data. <i>GigaScience</i> , 2020, 9, .	6.4	34
16	From correlation to causality: the case of <i>Subdoligranulum</i> . <i>Gut Microbes</i> , 2020, 12, 1849998.	9.8	192
17	Gut Microbiota Profile of Obese Diabetic Women Submitted to Roux-en-Y Gastric Bypass and Its Association with Food Intake and Postoperative Diabetes Remission. <i>Nutrients</i> , 2020, 12, 278.	4.1	47
18	Q-Finder: An Algorithm for Credible Subgroup Discovery in Clinical Data Analysis – An Application to the International Diabetes Management Practice Study. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 559927.	3.4	11

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19	Major microbiota dysbiosis in severe obesity: fate after bariatric surgery. <i>Cut</i> , 2019, 68, 70-82.	12.1	297
20	<i>Akkermansia muciniphila</i> abundance is lower in severe obesity, but its increased level after bariatric surgery is not associated with metabolic health improvement. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E446-E459.	3.5	67
21	QMSpy: An Integrated Modular and Scalable Platform for Quantitative Metagenomics in Pyspark. , 2019, , .		1
22	Elevated serum ceramides are linked with obesity-associated gut dysbiosis and impaired glucose metabolism. <i>Metabolomics</i> , 2019, 15, 140.	3.0	26
23	Disease Prediction Using Synthetic Image Representations of Metagenomic Data and Convolutional Neural Networks. , 2019, , .		3
24	Enhancing Metagenome-based Disease Prediction by Unsupervised Binning Approaches. , 2019, , .		12
25	Prediction of Long-Term Diabetes Remission After RYGB, Sleeve Gastrectomy, and Adjustable Gastric Banding Using DiaRem and Advanced-DiaRem Scores. <i>Obesity Surgery</i> , 2019, 29, 796-804.	2.1	37
26	Revealing causality between heterogeneous data sources with deep restricted Boltzmann machines. <i>Information Fusion</i> , 2019, 50, 139-147.	19.1	0
27	An approach to optimizing abstaining area for small sample data classification. <i>Expert Systems With Applications</i> , 2018, 95, 153-161.	7.6	5
28	No wisdom in the crowd: genome annotation in the era of big data – current status and future prospects. <i>Microbial Biotechnology</i> , 2018, 11, 588-605.	4.2	45
29	Long-term Relapse of Type 2 Diabetes After Roux-en-Y Gastric Bypass: Prediction and Clinical Relevance. <i>Diabetes Care</i> , 2018, 41, 2086-2095.	8.6	90
30	A Semi-supervised Approach to Discover Bivariate Causality in Large Biological Data. <i>Lecture Notes in Computer Science</i> , 2018, , 406-420.	1.3	1
31	Risk Scores Learned by Deep Restricted Boltzmann Machines with Trained Interval Quantization. <i>Lecture Notes in Computer Science</i> , 2018, , 421-435.	1.3	1
32	A Data Integration Multi-Omics Approach to Study Calorie Restriction-Induced Changes in Insulin Sensitivity. <i>Frontiers in Physiology</i> , 2018, 9, 1958.	2.8	39
33	The FAT Score, a Fibrosis Score of Adipose Tissue: Predicting Weight-Loss Outcome After Gastric Bypass. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 2443-2453.	3.6	62
34	Reinforcement learning approach for adapting complex agent-based model of evacuation to fast linear model. , 2017, , .		8
35	The fused lasso penalty for learning interpretable medical scoring systems. , 2017, , .		4
36	The advanced-DiaRem score improves prediction of diabetes remission 1 year post-Roux-en-Y gastric bypass. <i>Diabetologia</i> , 2017, 60, 1892-1902.	6.3	100

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37	Score semi-quantitatif de la fibrose du tissu adipeux sous-cutané humain : un nouvel outil pour améliorer la prédiction de la réponse pondérale au bypass gastrique. <i>Diabetes and Metabolism</i> , 2017, 43, 29-37.		0
38	Efficient global network learning from local reconstructions. , 2017, , .		0
39	Deterministic convection-diffusion approach for modeling cell motion and spatial organization: Experimentation on avascular tumor growth. , 2017, , .		0
40	Deterministic Convection-Diffusion Approach for Modeling Cell Motion and Spatial Organization: Experimentation on Avascular Tumor Growth. , 2017, , .		0
41	Quantifying the Effect of Metapopulation Size on the Persistence of Infectious Diseases in a Metapopulation. <i>Lecture Notes in Computer Science</i> , 2017, , 753-764.	1.3	0
42	Spectral consensus strategy for accurate reconstruction of large biological networks. <i>BMC Bioinformatics</i> , 2016, 17, 493.	2.6	10
43	Causality analysis between climatic factors and dengue fever using the Granger causality. , 2016, , .		0
44	Quantifying the effect of synchrony on the persistence of infectious diseases in a metapopulation. , 2016, , .		1
45	Deep kernel dimensionality reduction for scalable data integration. <i>International Journal of Approximate Reasoning</i> , 2016, 74, 121-132.	3.3	3
46	Deep Self-Organising Maps for efficient heterogeneous biomedical signatures extraction. , 2016, , .		2
47	<i>Akkermansia muciniphila</i> and improved metabolic health during a dietary intervention in obesity: relationship with gut microbiome richness and ecology. <i>Gut</i> , 2016, 65, 426-436.	12.1	1,379
48	Sparse Zero-Sum Games as Stable Functional Feature Selection. <i>PLoS ONE</i> , 2015, 10, e0134683.	2.5	0
49	Approximate regret based elicitation in Markov decision process. , 2015, , .		1
50	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. <i>Cell Metabolism</i> , 2015, 22, 320-331.	16.2	345
51	The New Science of Metagenomics and the Challenges of Its Use in Both Developed and Developing Countries. , 2015, , 191-216.		6
52	Experimental analysis of new algorithms for learning ternary classifiers. , 2015, , .		0
53	Hybrid of linear programming and genetic algorithm for optimizing agent-based simulation. Application to optimization of sign placement for tsunami evacuation. , 2015, , .		2
54	Continuous and Discrete Deep Classifiers for Data Integration. <i>Lecture Notes in Computer Science</i> , 2015, , 264-274.	1.3	1

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55	Dietary Patterns Differently Associate with Inflammation and Gut Microbiota in Overweight and Obese Subjects. PLoS ONE, 2014, 9, e109434.	2.5	111
56	Association of Adipose Tissue and Liver Fibrosis With Tissue Stiffness in Morbid Obesity: Links With Diabetes and BMI Loss After Gastric Bypass. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 898-907.	3.6	107
57	Analysis of feature selection stability on high dimension and small sample data. Computational Statistics and Data Analysis, 2014, 71, 681-693.	1.2	82
58	The niche reduction approach: an opportunity for optimal control of infectious diseases in low-income countries?. BMC Public Health, 2014, 14, 753.	2.9	8
59	Approaches to Optimize Local Evacuation Maps for Helping Evacuation in Case of Tsunami. Lecture Notes in Business Information Processing, 2014, , 21-31.	1.0	1
60	Abstraction in Artificial Intelligence and Complex Systems. , 2013, , .		36
61	Integration of Smoke Effect and Blind Evacuation Strategy (SEBES) within fire evacuation simulation. Simulation Modelling Practice and Theory, 2013, 36, 44-59.	3.8	56
62	Richness of human gut microbiome correlates with metabolic markers. Nature, 2013, 500, 541-546.	27.8	3,641
63	Dietary intervention impact on gut microbial gene richness. Nature, 2013, 500, 585-588.	27.8	1,485
64	Gut microbiota after gastric bypass in human obesity: increased richness and associations of bacterial genera with adipose tissue genes. American Journal of Clinical Nutrition, 2013, 98, 16-24.	4.7	351
65	A model-view/controller approach to support visualization and online data analysis of Agent-based simulations. , 2013, , .		7
66	Insulin resistance and inflammation predict kinetic body weight changes in response to dietary weight loss and maintenance in overweight and obese subjects by using a Bayesian network approach. American Journal of Clinical Nutrition, 2013, 98, 1385-1394.	4.7	75
67	Speeding up the evaluation of casualties in multi-agent simulations with Linear Programming application to optimization of sign placement for tsunami evacuation. , 2013, , .		6
68	A grid-based multistage algorithm for parameter simulation-optimization of complex system. , 2013, , .		0
69	Complex systems simulation online visual analysis and assessment using dynamic aggregation operators. , 2013, , .		1
70	GAMA: A Spatially Explicit, Multi-level, Agent-Based Modeling and Simulation Platform. Lecture Notes in Computer Science, 2013, , 271-274.	1.3	18
71	Online Analysis and Visualization of Agent Based Models. Lecture Notes in Computer Science, 2013, , 662-672.	1.3	4
72	An Operational Meta-Model for Handling Multiple Scales in Agent-Based Simulations. , 2012, , .		6

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73	Spatial Estimator of Brown Plant Hopper Density from Light Traps Data. , 2012, , .		2
74	Which Behavior Is Best in a Fire Evacuation: Simulation with the Metro Supermarket of Hanoi. , 2012, , .		2
75	Experimental analysis of feature selection stability for high-dimension and low-sample size gene expression classification task. , 2012, , .		1
76	Simulation of Emergency Evacuation of Pedestrians along the Road Networks in Nhatrang City. , 2012, , .		4
77	Optimizing the Placement of Evacuation Signs on Road Network with Time and Casualties in Case of a Tsunami. , 2012, , .		6
78	A Simulation Model for Optimise the Fire Evacuation Configuration in the Metro Supermarket of Hanoi. Lecture Notes in Computer Science, 2012, , 470-479.	1.3	0
79	A Modelling Language to Represent and Specify Emerging Structures in Agent-Based Model. Lecture Notes in Computer Science, 2012, , 212-227.	1.3	4
80	Towards a Methodology for the Participatory Design of Agent-Based Models. Lecture Notes in Computer Science, 2012, , 428-442.	1.3	3
81	The Ecosystem in Practice: Interest and Problems of an Old Definition for Constructing Ecological Models. Ecosystems, 2011, 14, 1039-1054.	3.4	28
82	A distinct adipose tissue gene expression response to caloric restriction predicts 6-mo weight maintenance in obese subjects. American Journal of Clinical Nutrition, 2011, 94, 1399-1409.	4.7	54
83	Exploring interaction measures to identify informative pairs of genes. International Journal of Bioinformatics Research and Applications, 2010, 6, 628.	0.2	1
84	Fibrosis in Human Adipose Tissue: Composition, Distribution, and Link With Lipid Metabolism and Fat Mass Loss. Diabetes, 2010, 59, 2817-2825.	0.6	511
85	Interactional and functional centrality in transcriptional co-expression networks. Bioinformatics, 2010, 26, 3083-3089.	4.1	32
86	Disk Graph-Based Model: A Graph Theoretical Approach for Linking Agent-Based Models and Dynamical Systems. , 2010, , .		1
87	A data mining approach for assessing consistency between multiple representations in spatial databases. International Journal of Geographical Information Science, 2009, 23, 961-992.	4.8	21
88	Needle and surgical biopsy techniques differentially affect adipose tissue gene expression profiles. American Journal of Clinical Nutrition, 2009, 89, 51-57.	4.7	66
89	Mining Abstract Highly Correlated Pairs. , 2009, , .		1
90	Experiments with Adaptive Transfer Rate in Reinforcement Learning. Lecture Notes in Computer Science, 2009, , 1-11.	1.3	1

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91	Application of 'omic' strategies to obesity research.. , 2009, , 349-367.		0
92	A paradigm of diagnostic criteria for polyarteritis nodosa: Analysis of a series of 949 patients with vasculitides. Arthritis and Rheumatism, 2008, 58, 1528-1538.	6.7	89
93	Adipose tissue transcriptomic signature highlights the pathological relevance of extracellular matrix in human obesity. Genome Biology, 2008, 9, R14.	9.6	372
94	FunNet: an integrative tool for exploring transcriptional interactions. Bioinformatics, 2008, 24, 2636-2638.	4.1	78
95	Interactive Learning of Expert Criteria for Rescue Simulations. Lecture Notes in Computer Science, 2008, , 127-138.	1.3	5
96	Use of the C4.5 machine learning algorithm to test a clinical guideline-based decision support system. Studies in Health Technology and Informatics, 2008, 136, 223-8.	0.3	11
97	Feature construction from synergic pairs to improve microarray-based classification. Bioinformatics, 2007, 23, 2866-2872.	4.1	20
98	Adipose Gene Expression Prior to Weight Loss Can Differentiate and Weakly Predict Dietary Responders. PLoS ONE, 2007, 2, e1344.	2.5	45
99	Abstraction and Complexity Measures. Lecture Notes in Computer Science, 2007, , 375-390.	1.3	2
100	Perceptual learning and abstraction in machine learning: an application to autonomous robotics. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 172-181.	2.9	16
101	Microarray profiling of human white adipose tissue after exogenous leptin injection. European Journal of Clinical Investigation, 2006, 36, 153-163.	3.4	21
102	CLUSTERING BIOLOGICAL ANNOTATIONS AND GENE EXPRESSION DATA TO IDENTIFY PUTATIVELY CO-REGULATED BIOLOGICAL PROCESSES. Journal of Bioinformatics and Computational Biology, 2006, 04, 833-852.	0.8	21
103	Serum amyloid A: production by human white adipocyte and regulation by obesity and nutrition. Diabetologia, 2005, 48, 519-528.	6.3	157
104	Cathepsin S, a novel biomarker of adiposity: relevance to atherogenesis. FASEB Journal, 2005, 19, 1540-1542.	0.5	138
105	The case for strategic international alliances to harness nutritional genomics for public and personal health. British Journal of Nutrition, 2005, 94, 623-632.	2.3	137
106	Consistency Assessment Between Multiple Representations of Geographical Databases: a Specification-Based Approach. , 2005, , 617-628.		6
107	Reduction of Macrophage Infiltration and Chemoattractant Gene Expression Changes in White Adipose Tissue of Morbidly Obese Subjects After Surgery-Induced Weight Loss. Diabetes, 2005, 54, 2277-2286.	0.6	992
108	Weight loss regulates inflammation-related genes in white adipose tissue of obese subjects. FASEB Journal, 2004, 18, 1657-1669.	0.5	569

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109	How to Integrate Heterogeneous Spatial Databases in a Consistent Way?. Lecture Notes in Computer Science, 2004, , 364-378.	1.3	18
110	In VivoEpinephrine-Mediated Regulation of Gene Expression in Human Skeletal Muscle. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 2000-2014.	3.6	55
111	A meta-learning approach to ground symbols from visual percepts. Robotics and Autonomous Systems, 2003, 43, 149-162.	5.1	8
112	A grounded theory of abstraction in artificial intelligence. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 1293-1309.	4.0	27
113	Multi-agent Patrolling: An Empirical Analysis of Alternative Architectures. Lecture Notes in Computer Science, 2003, , 155-170.	1.3	111
114	Improving classification of microarray data using prototype-based feature selection. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2003, 5, 23-30.	4.0	45
115	Stress response function of a two-dimensional ordered packing of frictional beads. Europhysics Letters, 2002, 60, 813-819.	2.0	18
116	Message passing between individual and socially acquainted objects in Smalltalk. Knowledge-Based Systems, 2002, 15, 355-368.	7.1	2
117	Abstracting Visual Percepts to Learn Concepts. Lecture Notes in Computer Science, 2002, , 256-273.	1.3	2
118	A model of abstraction in visual perception. Applied Artificial Intelligence, 2001, 15, 761-776.	3.2	25
119	Solving Multiple-Instance and Multiple-Part Learning Problems with Decision Trees and Rule Sets. Application to the Mutagenesis Problem. Lecture Notes in Computer Science, 2001, , 204-214.	1.3	60
120	From individual choice to group decision-making. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 644-659.	2.6	71
121	Abstractions for Knowledge Organization of Relational Descriptions. Lecture Notes in Computer Science, 2000, , 87-106.	1.3	4
122	From distributed robot perception to human topology : a learning model. , 2000, , 469-470.		3
123	KIDS: An Iterative Algorithm to Organize Relational Knowledge. Lecture Notes in Computer Science, 2000, , 217-232.	1.3	1
124	Abstraction and Phase Transitions in Relational Learning. Lecture Notes in Computer Science, 2000, , 291-301.	1.3	1
125	Cartographic generalization as a combination of representing and abstracting knowledge. , 1999, , .		2
126	Relational knowledge discovery in a chinese character database. Applied Artificial Intelligence, 1998, 12, 455-488.	3.2	3

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127	Learning structurally indeterminate clauses. Lecture Notes in Computer Science, 1998, , 235-244.	1.3	10
128	Reformulation of examples in concept learning of structural descriptions. Lecture Notes in Computer Science, 1995, , 377-388.	1.3	0
129	Selective Reformulation of Examples in Concept Learning. , 1994, , 352-360.		7
130	A meta-CASE environment for software process-centred CASE environments. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 1992, , 568-588.	0.3	6
131	Perceptual learning and abstraction in machine learning. , 0, , .		2
132	Online learning for object identification by a mobile robot. , 0, , .		1