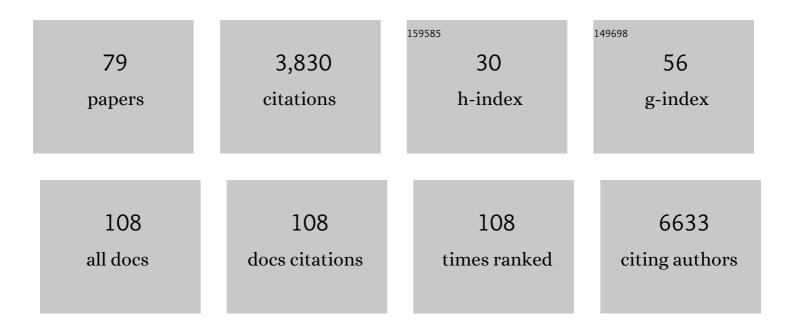
Carsten Marr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Parameter inference with analytical propagators for stochastic models of autoregulated gene expression. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 565-577.	1.0	4
2	The value of longitudinal clinical data and paired CT scans in predicting the deterioration of COVID-19 revealed by an artificial intelligence system. IScience, 2022, 25, 104227.	4.1	5
3	Computational modeling of stem and progenitor cell kinetics identifies plausible hematopoietic lineage hierarchies. IScience, 2021, 24, 102120.	4.1	7
4	InstantDL: an easy-to-use deep learning pipeline for image segmentation and classification. BMC Bioinformatics, 2021, 22, 103.	2.6	10
5	Fourier Transform of Percoll Gradients Boosts CNN Classification of Hereditary Hemolytic Anemias. , 2021, , .		1
6	NG2-Glia Transiently Overcome Their Homeostatic Network and Contribute to Wound Closure After Brain Injury. Frontiers in Cell and Developmental Biology, 2021, 9, 662056.	3.7	23
7	Tens of images can suffice to train neural networks for malignant leukocyte detection. Scientific Reports, 2021, 11, 7995.	3.3	15
8	Cellular connectomes as arbiters of local circuit models in the cerebral cortex. Nature Communications, 2021, 12, 2785.	12.8	11
9	T cells armed with C-X-C chemokine receptor type 6 enhance adoptive cell therapy for pancreatic tumours. Nature Biomedical Engineering, 2021, 5, 1246-1260.	22.5	80
10	CHIP and hips: clonal hematopoiesis is common in patients undergoing hip arthroplasty and is associated with autoimmune disease. Blood, 2021, 138, 1727-1732.	1.4	58
11	Combined tumor-directed recruitment and protection from immune suppression enable CAR T cell efficacy in solid tumors. Science Advances, 2021, 7, .	10.3	56
12	Mechanistic models of blood cell fate decisions in the era of single-cell data. Current Opinion in Systems Biology, 2021, 28, 100355.	2.6	2
13	Highly accurate differentiation of bone marrow cell morphologies using deep neural networks on a large image data set. Blood, 2021, 138, 1917-1927.	1.4	62
14	N6-methyladenosine (m ⁶ A) depletion regulates pluripotency exit by activating signaling pathways in embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
15	Histopathology-Based Deep-Learning Predicts Atherosclerotic Lesions in Intravascular Imaging. Frontiers in Cardiovascular Medicine, 2021, 8, 779807.	2.4	1
16	MitoSegNet: Easy-to-use Deep Learning Segmentation for Analyzing Mitochondrial Morphology. IScience, 2020, 23, 101601.	4.1	44
17	H4K20 Methylation Is Differently Regulated by Dilution and Demethylation in Proliferating and Cell-Cycle-Arrested Xenopus Embryos. Cell Systems, 2020, 11, 653-662.e8.	6.2	6
18	Injury triggers fascia fibroblast collective cell migration to drive scar formation through N-cadherin. Nature Communications, 2020, 11, 5653.	12.8	66

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19	Single-Cell Tracing Dissects Regulation of Maintenance and Inheritance of Transcriptional Reinduction Memory. Molecular Cell, 2020, 78, 915-925.e7.	9.7	18
20	Gene Networks with Transcriptional Bursting Recapitulate Rare Transient Coordinated High Expression States in Cancer. Cell Systems, 2020, 10, 363-378.e12.	6.2	54
21	Automatic identification of relevant genes from low-dimensional embeddings of single-cell RNA-seq data. Bioinformatics, 2020, 36, 4291-4295.	4.1	7
22	Attention Based Multiple Instance Learning for Classification of Blood Cell Disorders. Lecture Notes in Computer Science, 2020, , 246-256.	1.3	13
23	Domain Model Explains Propagation Dynamics and Stability of Histone H3K27 and H3K36 Methylation Landscapes. Cell Reports, 2020, 30, 1223-1234.e8.	6.4	54
24	A sparse deep learning approach for automatic segmentation of human vasculature in multispectral optoacoustic tomography. Photoacoustics, 2020, 20, 100203.	7.8	26
25	Reoccurring neural stem cell divisions in the adult zebrafish telencephalon are sufficient for the emergence of aggregated spatiotemporal patterns. PLoS Biology, 2020, 18, e3000708.	5.6	3
26	Human-level recognition of blast cells in acute myeloid leukaemia with convolutional neural neural networks. Nature Machine Intelligence, 2019, 1, 538-544.	16.0	122
27	Metabolic regulation of pluripotency and germ cell fate through αâ€ketoglutarate. EMBO Journal, 2019, 38, .	7.8	77
28	Multiclass Deep Active Learning for Detecting Red Blood Cell Subtypes in Brightfield Microscopy. Lecture Notes in Computer Science, 2019, , 685-693.	1.3	24
29	Evaluation of Domain Adaptation Approaches for Robust Classification of Heterogeneous Biological Data Sets. Lecture Notes in Computer Science, 2019, , 673-686.	1.3	1
30	In-Silico Staining from Bright-Field and Fluorescent Images Using Deep Learning. Lecture Notes in Computer Science, 2019, , 184-186.	1.3	1
31	Time-dependent propagators for stochastic models of gene expression: an analytical method. Journal of Mathematical Biology, 2018, 77, 261-312.	1.9	23
32	Image analysis of neural stem cell division patterns in the zebrafish brain. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 314-322.	1.5	9
33	MicroRNA as an Integral Part of Cell Communication: Regularized Target Prediction and Network Prediction. Lecture Notes in Bioengineering, 2018, , 85-100.	0.4	0
34	A single-cell micro-trench platform for automatic monitoring of cell division and apoptosis after chemotherapeutic drug administration. Scientific Reports, 2018, 8, 18042.	3.3	5
35	Increasing Neural Stem Cell Division Asymmetry and Quiescence Are Predicted to Contribute to the Age-Related Decline in Neurogenesis. Cell Reports, 2018, 25, 3231-3240.e8.	6.4	35
36	Live cell-lineage tracing and machine learning reveal patterns of organ regeneration. ELife, 2018, 7, .	6.0	35

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37	Lineage marker synchrony in hematopoietic genealogies refutes the PU.1/GATA1 toggle switch paradigm. Nature Communications, 2018, 9, 2697.	12.8	24
38	cgCorrect: a method to correct for confounding cell–cell variation due to cell growth in single-cell transcriptomics. Physical Biology, 2017, 14, 036001.	1.8	15
39	Prospective identification of hematopoietic lineage choice by deep learning. Nature Methods, 2017, 14, 403-406.	19.0	160
40	fastER: a user-friendly tool for ultrafast and robust cell segmentation in large-scale microscopy. Bioinformatics, 2017, 33, 2020-2028.	4.1	58
41	A BaSiC tool for background and shading correction of optical microscopy images. Nature Communications, 2017, 8, 14836.	12.8	213
42	Software tools for single-cell tracking and quantification of cellular and molecular properties. Nature Biotechnology, 2016, 34, 703-706.	17.5	162
43	Analysis of Cell Lineage Trees by Exact Bayesian Inference Identifies Negative Autoregulation of Nanog in Mouse Embryonic Stem Cells. Cell Systems, 2016, 3, 480-490.e13.	6.2	30
44	Early myeloid lineage choice is not initiated by random PU.1 to GATA1 protein ratios. Nature, 2016, 535, 299-302.	27.8	180
45	Structure-based assessment of cancerous mitochondria using deep networks. , 2016, , .		2
46	Single-cell gene expression profiling and cell state dynamics: collecting data, correlating data points and connecting the dots. Current Opinion in Biotechnology, 2016, 39, 207-214.	6.6	36
47	<i>destiny</i> : diffusion maps for large-scale single-cell data in R. Bioinformatics, 2016, 32, 1241-1243.	4.1	518
48	Combinatorial Histone Acetylation Patterns Are Generated by Motif-Specific Reactions. Cell Systems, 2016, 2, 49-58.	6.2	19
49	A geometric analysis of fast-slow models for stochastic gene expression. Journal of Mathematical Biology, 2016, 72, 87-122.	1.9	25
50	An adaptive scheduling scheme for calculating Bayes factors with thermodynamic integration using Simpson's rule. Statistics and Computing, 2016, 26, 663-677.	1.5	15
51	Twist1 induces distinct cell states depending on TGFBR1-activation. Oncotarget, 2016, 7, 30396-30407.	1.8	12
52	Inference of spatiotemporal effects on cellular state transitions from time-lapse microscopy. BMC Systems Biology, 2015, 9, 61.	3.0	3
53	Opposing effects of allogrooming on disease transmission in ant societies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140108.	4.0	43
54	Network plasticity of pluripotency transcription factors in embryonic stem cells. Nature Cell Biology, 2015, 17, 1235-1246.	10.3	130

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55	SimiRa: A tool to identify coregulation between microRNAs and RNA-binding proteins. RNA Biology, 2015, 12, 998-1009.	3.1	14
56	A case study on the use of scale separation-based analytical propagators for parameter inference in models of stochastic gene regulation. Journal of Coupled Systems and Multiscale Dynamics, 2015, 3, 164-173.	0.2	8
57	MCA: Multiresolution Correlation Analysis, a graphical tool for subpopulation identification in single-cell gene expression data. BMC Bioinformatics, 2014, 15, 240.	2.6	9
58	Centroid Clustering of Cellular Lineage Trees. Lecture Notes in Computer Science, 2014, , 15-29.	1.3	3
59	An automatic method for robust and fast cell detection in bright field images from high-throughput microscopy. BMC Bioinformatics, 2013, 14, 297.	2.6	117
60	Social Transfer of Pathogenic Fungus Promotes Active Immunisation in Ant Colonies. PLoS Biology, 2012, 10, e1001300.	5.6	158
61	Stability and Multiattractor Dynamics of a Toggle Switch Based on a Two-Stage Model of Stochastic Gene Expression. Biophysical Journal, 2012, 102, 19-29.	0.5	76
62	Cellular Automata on Graphs: Topological Properties of ER Graphs Evolved towards Low-Entropy Dynamics. Entropy, 2012, 14, 993-1010.	2.2	10
63	A Topological Characterization of Medium-Dependent Essential Metabolic Reactions. Metabolites, 2012, 2, 632-647.	2.9	11
64	Multiâ€scale modeling of GMP differentiation based on singleâ€cell genealogies. FEBS Journal, 2012, 279, 3488-3500.	4.7	19
65	miTALOS: Analyzing the tissue-specific regulation of signaling pathways by human and mouse microRNAs. Rna, 2011, 17, 809-819.	3.5	52
66	Hierarchical Differentiation of Myeloid Progenitors Is Encoded in the Transcription Factor Network. PLoS ONE, 2011, 6, e22649.	2.5	137
67	Intronic microRNAs support their host genes by mediating synergistic and antagonistic regulatory effects. BMC Genomics, 2010, 11, 224.	2.8	126
68	Biologically meaningful update rules increase the critical connectivity of generalized Kauffman networks. Journal of Theoretical Biology, 2010, 266, 436-448.	1.7	8
69	Tissue-Specific Target Analysis of Disease-Associated MicroRNAs in Human Signaling Pathways. PLoS ONE, 2010, 5, e11154.	2.5	16
70	Patterns of Subnet Usage Reveal Distinct Scales of Regulation in the Transcriptional Regulatory Network of Escherichia coli. PLoS Computational Biology, 2010, 6, e1000836.	3.2	15
71	Outer-totalistic cellular automata on graphs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 546-549.	2.1	30
72	Zebrafish reward mutants reveal novel transcripts mediating the behavioral effects of amphetamine. Genome Biology, 2009, 10, R81.	9.6	71

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73	Dissecting the logical types of network control in gene expression profiles. BMC Systems Biology, 2008, 2, 18.	3.0	88
74	Reply to "Comment on â€~Regularizing capacity of metabolic networks' ― Physical Review E, 2008,	72,1	1
75	Regularizing capacity of metabolic networks. Physical Review E, 2007, 75, 041917.	2.1	16
76	Similar impact of topological and dynamic noise on complex patterns. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 302-305.	2.1	30
77	Topology regulates the distribution pattern of excitations in excitable dynamics on graphs. Physical Review E, 2006, 74, 016112.	2.1	28
78	Topology regulates pattern formation capacity of binary cellular automata on graphs. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 641-662.	2.6	42
79	Entangled-state preparation via dissipation-assisted adiabatic passages. Physical Review A, 2003, 68, .	2.5	100