

Peng Qiu

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

7,561
citations

159585

30
h-index

66911

78
g-index

114
all docs

114
docs citations

114
times ranked

13442
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing immune response to engineered hydrogels by hierarchical clustering of inflammatory cell subsets. <i>Science Advances</i> , 2022, 8, eabd8056.	10.3	15
2	Urinary detection of early responses to checkpoint blockade and of resistance to it via protease-cleaved antibody-conjugated sensors. <i>Nature Biomedical Engineering</i> , 2022, 6, 310-324.	22.5	16
3	Integrative analysis of TCGA data identifies miRNAs as drug-specific survival biomarkers. <i>Scientific Reports</i> , 2022, 12, 6785.	3.3	1
4	Modulating local S1P receptor signaling as a regenerative immunotherapy after volumetric muscle loss injury. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 695-712.	4.0	12
5	Dual delivery of IL-10 and AT-RvD1 from PEG hydrogels polarize immune cells towards pro-regenerative phenotypes. <i>Biomaterials</i> , 2021, 268, 120475.	11.4	27
6	Inference of Networks from Large Datasets. , 2021, , 17-25.		0
7	JSOM: Jointly-evolving self-organizing maps for alignment of biological datasets and identification of related clusters. <i>PLoS Computational Biology</i> , 2021, 17, e1008804.	3.2	3
8	Identifying gene expression patterns associated with drug-specific survival in cancer patients. <i>Scientific Reports</i> , 2021, 11, 5004.	3.3	8
9	Nanofiber-Based Delivery of Bioactive Lipids Promotes Pro-regenerative Inflammation and Enhances Muscle Fiber Growth After Volumetric Muscle Loss. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 650289.	4.1	6
10	Blockade of glutamine-dependent cell survival augments antitumor efficacy of CPI-613 in head and neck cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 393.	8.6	17
11	Leveraging TCGA gene expression data to build predictive models for cancer drug response. <i>BMC Bioinformatics</i> , 2020, 21, 364.	2.6	26
12	Correlating Mechanical and Gene Expression Data on the Single Cell Level to Investigate Metastasis. <i>Biophysical Journal</i> , 2020, 118, 189a.	0.5	0
13	Harnessing lipid signaling pathways to target specialized pro-angiogenic neutrophil subsets for regenerative immunotherapy. <i>Science Advances</i> , 2020, 6, .	10.3	13
14	Immunotherapy via PD-L1â€‘presenting biomaterials leads to long-term islet graft survival. <i>Science Advances</i> , 2020, 6, eaba5573.	10.3	54
15	Shape-to-graph mapping method for efficient characterization and classification of complex geometries in biological images. <i>PLoS Computational Biology</i> , 2020, 16, e1007758.	3.2	1
16	GLaMST: grow lineages along minimum spanning tree for b cell receptor sequencing data. <i>BMC Genomics</i> , 2020, 21, 583.	2.8	8
17	Embracing the dropouts in single-cell RNA-seq analysis. <i>Nature Communications</i> , 2020, 11, 1169.	12.8	204
18	Risk-associated alterations in marrow T cells in pediatric leukemia. <i>JCI Insight</i> , 2020, 5, .	5.0	23

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19	Gene selection for optimal prediction of cell position in tissues from single-cell transcriptomics data. <i>Life Science Alliance</i> , 2020, 3, e202000867.	2.8	20
20	Image-based early predictions of functional properties in cell manufacturing. , 2020, , .		0
21	Feature selection algorithms for predicting preeclampsia: A comparative approach. , 2020, , .		1
22	Prediction of Functional Markers of Mass Cytometry Data via Deep Learning. <i>Emerging Topics in Statistics and Biostatistics</i> , 2020, , 95-104.	0.1	0
23	17â€¦Activity sensors for noninvasive monitoring of immune response and tumor resistance during immune checkpoint blockade therapy. , 2020, , .		0
24	Ageing progression of human gut microbiota. <i>BMC Microbiology</i> , 2019, 19, 236.	3.3	151
25	Classification of Antibacterial Peptides using Long Short-Term Memory Recurrent Neural Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 17, 1-1.	3.0	7
26	Correlation Patterns Between DNA Methylation and Gene Expression in The Cancer Genome Atlas. <i>Cancer Informatics</i> , 2019, 18, 117693511982877.	1.9	120
27	Quantitative Proteome Landscape of the NCI-60 Cancer Cell Lines. <i>IScience</i> , 2019, 21, 664-680.	4.1	52
28	Deconvolving multiplexed protease signatures with substrate reduction and activity clustering. <i>PLoS Computational Biology</i> , 2019, 15, e1006909.	3.2	6
29	Targeting nuclear β -catenin as therapy for post-myeloproliferative neoplasm secondary AML. <i>Leukemia</i> , 2019, 33, 1373-1386.	7.2	32
30	Beyond Autoantibodies: Biologic Roles of Human Autoreactive B Cells in Rheumatoid Arthritis Revealed by RNAâ€¦Sequencing. <i>Arthritis and Rheumatology</i> , 2019, 71, 529-541.	5.6	17
31	Microfluidic generation of transient cell volume exchange for convectively driven intracellular delivery of large macromolecules. <i>Materials Today</i> , 2018, 21, 703-712.	14.2	51
32	Experimental design and model reduction in systems biology. <i>Quantitative Biology</i> , 2018, 6, 287-306.	0.5	9
33	Quantifying the relative importance of experimental data points in parameter estimation. <i>BMC Systems Biology</i> , 2018, 12, 103.	3.0	4
34	Automatically generate twoâ€¦dimensional gating hierarchy from clustered cytometry data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 1039-1050.	1.5	3
35	Biophysical subsets of embryonic stem cells display distinct phenotypic and morphological signatures. <i>PLoS ONE</i> , 2018, 13, e0192631.	2.5	20
36	Single-Cell Mass Cytometry Characterizes Phenotypic and Functional Heterogeneity in Acute Myeloid Leukemia at Diagnosis, in Remission and Relapse. <i>Blood</i> , 2018, 132, 912-912.	1.4	1

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37	Accurately tracking single-cell movement trajectories in microfluidic cell sorting devices. <i>PLoS ONE</i> , 2018, 13, e0192463.	2.5	13
38	Toward deterministic and semiautomated SPADE analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 281-289.	1.5	37
39	GDISC: a web portal for integrative analysis of gene-drug interaction for survival in cancer. <i>Bioinformatics</i> , 2017, 33, 1426-1428.	4.1	15
40	Novel BET protein proteolysis-targeting chimera exerts superior lethal activity than bromodomain inhibitor (BETi) against post-myeloproliferative neoplasm secondary (s) AML cells. <i>Leukemia</i> , 2017, 31, 1951-1961.	7.2	151
41	Data-analysis strategies for image-based cell profiling. <i>Nature Methods</i> , 2017, 14, 849-863.	19.0	535
42	3D material cytometry (3DMaC): a very high-replicate, high-throughput analytical method using microfabricated, shape-specific, cell-material niches. <i>Lab on A Chip</i> , 2017, 17, 2861-2872.	6.0	5
43	BET protein bromodomain inhibitor-based combinations are highly active against post-myeloproliferative neoplasm secondary AML cells. <i>Leukemia</i> , 2017, 31, 678-687.	7.2	77
44	Graph-based extraction of shape features for leaf classification. , 2017, , .		3
45	Long short-term memory recurrent neural networks for antibacterial peptide identification. , 2017, , .		12
46	The relative importance of data points in systems biology and parameter estimation. , 2017, , .		0
47	Bridging Mechanistic and Phenomenological Models of Complex Biological Systems. <i>PLoS Computational Biology</i> , 2016, 12, e1004915.	3.2	54
48	Identification of gene-drug interactions that impact patient survival in TCGA. <i>BMC Bioinformatics</i> , 2016, 17, 409.	2.6	16
49	A benchmark for evaluation of algorithms for identification of cellular correlates of clinical outcomes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 16-21.	1.5	65
50	Peripheral blood blast clearance is an independent prognostic factor for survival and response to acute myeloid leukemia induction chemotherapy. <i>American Journal of Hematology</i> , 2016, 91, 1221-1226.	4.1	12
51	Visualization and cellular hierarchy inference of single-cell data using SPADE. <i>Nature Protocols</i> , 2016, 11, 1264-1279.	12.0	99
52	Computational prediction of manually gated rare cells in flow cytometry data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 594-602.	1.5	12
53	Individual Motile CD4+ T Cells Can Participate in Efficient Multikilling through Conjugation to Multiple Tumor Cells. <i>Cancer Immunology Research</i> , 2015, 3, 473-482.	3.4	85
54	Single-cell mass cytometry reveals intracellular survival/proliferative signaling in FLT3-ITD-mutated AML stem/progenitor cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 346-356.	1.5	83

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55	Thinking Outside the Gate: Single-Cell Assessments in Multiple Dimensions. <i>Immunity</i> , 2015, 42, 591-592.	14.3	67
56	Unsupervised Discovery of Subspace Trends. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 2131-2145.	13.9	4
57	BM-SNP: A Bayesian Model for SNP Calling Using High Throughput Sequencing Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 1038-1044.	3.0	3
58	Unfold High-Dimensional Clouds for Exhaustive Gating of Flow Cytometry Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 1045-1051.	3.0	4
59	COSMID: A Web-based Tool for Identifying and Validating CRISPR/Cas Off-target Sites. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e214.	5.1	315
60	An iterative algorithm for sampling from manifolds. , 2014, , .		1
61	Spectral feature selection and its application in high dimensional gene expression studies. , 2014, , .		3
62	Therapy Related Cellular Changes as a Tool for Prognosis in AML. <i>Clinical Lymphoma, Myeloma and Leukemia</i> , 2014, 14, S120.	0.4	0
63	A community computational challenge to predict the activity of pairs of compounds. <i>Nature Biotechnology</i> , 2014, 32, 1213-1222.	17.5	264
64	Model Reduction by Manifold Boundaries. <i>Physical Review Letters</i> , 2014, 113, 098701.	7.8	98
65	Improving the sensitivity of sample clustering by leveraging gene co-expression networks in variable selection. <i>BMC Bioinformatics</i> , 2014, 15, 153.	2.6	18
66	Case series of patients with acute myeloid leukemia receiving hypomethylation therapy and retrospectively found to have <i>IDH1</i> or <i>IDH2</i> mutations. <i>Leukemia and Lymphoma</i> , 2014, 55, 1431-1434.	1.3	4
67	A community effort to assess and improve drug sensitivity prediction algorithms. <i>Nature Biotechnology</i> , 2014, 32, 1202-1212.	17.5	653
68	TCGA-Assembler: open-source software for retrieving and processing TCGA data. <i>Nature Methods</i> , 2014, 11, 599-600.	19.0	366
69	Bayesian Hierarchical Models for Protein Networks in Single-Cell Mass Cytometry. <i>Cancer Informatics</i> , 2014, 13s4, CIN.S13984.	1.9	4
70	Identification of thresholds for dichotomizing DNA methylation data. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2013, 2013, 8.	1.4	12
71	TreeVis: A MATLAB-based tool for tree visualization. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 109, 74-76.	4.7	6
72	Unsupervised inference of arbor morphology progression for microglia from confocal microscope images. , 2013, , .		2

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73	PSGL-1/selectin and ICAM-1/CD18 interactions are involved in macrophage-induced drug resistance in myeloma. <i>Leukemia</i> , 2013, 27, 702-710.	7.2	123
74	Single-Cell Mass Cytometry Reveals Phenotypic and Functional Heterogeneity In Acute Myeloid Leukemia At Diagnosis and In Remission. <i>Blood</i> , 2013, 122, 1311-1311.	1.4	2
75	Differential Prognostic Impact Of Peripheral Blood Blast Clearance In AML Based On Type Of Therapy and FLT3 Mutation Status. <i>Blood</i> , 2013, 122, 2584-2584.	1.4	0
76	Toward exhaustive gating of flow cytometry data. , 2012, , .		1
77	CytoSPADE: high-performance analysis and visualization of high-dimensional cytometry data. <i>Bioinformatics</i> , 2012, 28, 2400-2401.	4.1	44
78	Optimal experiment selection for parameter estimation in biological differential equation models. <i>BMC Bioinformatics</i> , 2012, 13, 181.	2.6	31
79	Integrative analysis of methylation and gene expression data in TCGA. , 2012, , .		1
80	Identification of markers associated with global changes in DNA methylation regulation in cancers. <i>BMC Bioinformatics</i> , 2012, 13, S7.	2.6	13
81	Inferring Phenotypic Properties from Single-Cell Characteristics. <i>PLoS ONE</i> , 2012, 7, e37038.	2.5	28
82	Dynamics and Prognostic Impact of Peripheral Blood Blast Clearance in Patients with Acute Myeloid Leukemia (AML) Receiving FLT3 Inhibitor Therapy in Combination with Induction Chemotherapy. <i>Blood</i> , 2012, 120, 1417-1417.	1.4	0
83	Extracting a cellular hierarchy from high-dimensional cytometry data with SPADE. <i>Nature Biotechnology</i> , 2011, 29, 886-891.	17.5	905
84	Reconstructing Directed Signed Gene Regulatory Network From Microarray Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 3518-3521.	4.2	9
85	Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. <i>Science</i> , 2011, 332, 687-696.	12.6	2,097
86	Discovering Biological Progression Underlying Microarray Samples. <i>PLoS Computational Biology</i> , 2011, 7, e1001123.	3.2	42
87	Reducing the Computational Complexity of Information Theoretic Approaches for Reconstructing Gene Regulatory Networks. <i>Journal of Computational Biology</i> , 2010, 17, 169-176.	1.6	6
88	Simultaneous Class Discovery and Classification of Microarray Data Using Spectral Analysis. <i>Journal of Computational Biology</i> , 2009, 16, 935-944.	1.6	10
89	An Activity-Subspace Approach for Estimating the Integrated Input Function and Relative Distribution Volume in PET Parametric Imaging. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 25-36.	3.2	4
90	Fast calculation of pairwise mutual information for gene regulatory network reconstruction. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 94, 177-180.	4.7	52

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91	A robust method for QRS detection based on modified p-spectrum. , 2008, , .		4
92	Dependence network modeling for biomarker identification. Bioinformatics, 2007, 23, 198-206.	4.1	64
93	Inferential modeling and predictive feedback control in real-time motion compensation using the treatment couch during radiotherapy. Physics in Medicine and Biology, 2007, 52, 5831-5854.	3.0	29
94	Polynomial model approach for resynchronization analysis of cell-cycle gene expression data. Bioinformatics, 2006, 22, 959-966.	4.1	10
95	Mixture principal component analysis for distribution volume parametric imaging in brain PET studies. , 2006, , .		1
96	Ensemble dependence model for classification and prediction of cancer and normal gene expression data. Bioinformatics, 2005, 21, 3114-3121.	4.1	36
97	Discover Trend and Progression Underlying High-Dimensional Data. , 0, , 445-459.		0