David van Dijk

List of Publications by Year
in descending order

34 papers	5,648 citations	304743 22 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	11682 citing authors

#	Article	IF	Citations
1	Recovering Gene Interactions from Single-Cell Data Using Data Diffusion. Cell, 2018, 174, 716-729.e27.	28.9	1,197
2	Neuroinvasion of SARS-CoV-2 in human and mouse brain. Journal of Experimental Medicine, 2021, 218, .	8.5	677
3	Visualizing structure and transitions in high-dimensional biological data. Nature Biotechnology, 2019, 37, 1482-1492.	17.5	597
4	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. Cell, 2021, 184, 76-91.e13.	28.9	418
5	A neutrophil activation signature predicts critical illness and mortality in COVID-19. Blood Advances, 2021, 5, 1164-1177.	5.2	241
6	Exploring single-cell data with deep multitasking neural networks. Nature Methods, 2019, 16, 1139-1145.	19.0	222
7	Development and Validation of the Quick COVID-19 Severity Index: A Prognostic Tool for Early Clinical Decompensation. Annals of Emergency Medicine, 2020, 76, 442-453.	0.6	219
8	PD-1 marks dysfunctional regulatory T cells in malignant gliomas. JCI Insight, 2016, 1, .	5.0	182
9	Single-cell longitudinal analysis of SARS-CoV-2 infection in human airway epithelium identifies target cells, alterations in gene expression, and cell state changes. PLoS Biology, 2021, 19, e3001143.	5.6	180
10	Publication metrics and success on the academic job market. Current Biology, 2014, 24, R516-R517.	3.9	168
11	Immune dysregulation and autoreactivity correlate with disease severity in SARS-CoV-2-associated multisystem inflammatory syndrome in children. Immunity, 2021, 54, 1083-1095.e7.	14.3	164
12	Promoter Sequence Determines the Relationship between Expression Level and Noise. PLoS Biology, 2013, 11, e1001528.	5.6	143
13	Probing the effect of promoters on noise in gene expression using thousands of designed sequences. Genome Research, 2014, 24, 1698-1706.	5.5	118
14	Manifold learning-based methods for analyzing single-cell RNA-sequencing data. Current Opinion in Systems Biology, 2018, 7, 36-46.	2.6	103
15	Circulating markers of angiogenesis and endotheliopathy in COVIDâ€19. Pulmonary Circulation, 2020, 10, 1-4.	1.7	103
16	Single-cell multi-omics reveals dyssynchrony of the innate and adaptive immune system in progressive COVID-19. Nature Communications, 2022, 13, 440.	12.8	100
17	Quantifying the effect of experimental perturbations at single-cell resolution. Nature Biotechnology, 2021, 39, 619-629.	17.5	98
18	Noise in gene expression is coupled to growth rate. Genome Research, 2015, 25, 1893-1902.	5.5	83

#	Article	IF	Citations
19	Transcriptomic and clonal characterization of T cells in the human central nervous system. Science Immunology, 2020, 5, .	11.9	73
20	Single-cell multiomics reveals persistence of HIV-1 in expanded cytotoxic TÂcell clones. Immunity, 2022, 55, 1013-1031.e7.	14.3	61
21	Slow-growing cells within isogenic populations have increased RNA polymerase error rates and DNA damage. Nature Communications, 2015, 6, 7972.	12.8	51
22	Uncovering axes of variation among single-cell cancer specimens. Nature Methods, 2020, 17, 302-310.	19.0	39
23	Large-scale mapping of gene regulatory logic reveals context-dependent repression by transcriptional activators. Genome Research, 2017, 27, 87-94.	5.5	28
24	Interspecies commensal interactions have nonlinear impacts on host immunity. Cell Host and Microbe, 2022, 30, 988-1002.e6.	11.0	23
25	Single cell immune profiling of dengue virus patients reveals intact immune responses to Zika virus with enrichment of innate immune signatures. PLoS Neglected Tropical Diseases, 2020, 14, e0008112.	3.0	20
26	A phenomapping-derived tool to personalize the selection of anatomical vs. functional testing in evaluating chest pain (ASSIST). European Heart Journal, 2021, 42, 2536-2548.	2.2	17
27	Prdm6 controls heart development by regulating neural crest cell differentiation and migration. JCI Insight, 2022, 7, .	5.0	13
28	A method for the rational selection of drug repurposing candidates from multimodal knowledge harmonization. Scientific Reports, 2021, 11, 11049.	3.3	12
29	Coarse Graining of Data via Inhomogeneous Diffusion Condensation. , 2019, 2019, 2624-2633.		9
30	Compressed Diffusion. , 2019, , .		5
31	Generating hard-to-obtain information from easy-to-obtain information: Applications in drug discovery and clinical inference. Patterns, 2021, 2, 100288.	5.9	5
32	TrajectoryNet: A Dynamic Optimal Transport Network for Modeling Cellular Dynamics. Proceedings of Machine Learning Research, 2020, 119, 9526-9536.	0.3	3
33	Modeling Global Dynamics from Local Snapshots with Deep Generative Neural Networks. , 2019, , .		1
34	Learning General Transformations of Data for Out-of-Sample Extensions. , 2020, 2020, .		0