

F Alexander Wolf

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

9,991
citations

279487

23
h-index

476904

29
g-index

39
all docs

39
docs citations

39
times ranked

14198
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning for perturbational single-cell omics. <i>Cell Systems</i> , 2021, 12, 522-537.	2.9	52
2	Generalizing RNA velocity to transient cell states through dynamical modeling. <i>Nature Biotechnology</i> , 2020, 38, 1408-1414.	9.4	1,460
3	Conditional out-of-distribution generation for unpaired data using transfer VAE. <i>Bioinformatics</i> , 2020, 36, i610-i617.	1.8	62
4	scGen predicts single-cell perturbation responses. <i>Nature Methods</i> , 2019, 16, 715-721.	9.0	290
5	PAGA: graph abstraction reconciles clustering with trajectory inference through a topology preserving map of single cells. <i>Genome Biology</i> , 2019, 20, 59.	3.8	911
6	A test metric for assessing single-cell RNA-seq batch correction. <i>Nature Methods</i> , 2019, 16, 43-49.	9.0	278
7	Cell type atlas and lineage tree of a whole complex animal by single-cell transcriptomics. <i>Science</i> , 2018, 360, .	6.0	381
8	SCANPY: large-scale single-cell gene expression data analysis. <i>Genome Biology</i> , 2018, 19, 15.	3.8	3,958
9	Model-based branching point detection in single-cell data by K-branches clustering. <i>Bioinformatics</i> , 2017, 33, 3211-3219.	1.8	13
10	Reconstructing cell cycle and disease progression using deep learning. <i>Nature Communications</i> , 2017, 8, 463.	5.8	210
11	Single cells make big data: New challenges and opportunities in transcriptomics. <i>Current Opinion in Systems Biology</i> , 2017, 4, 85-91.	1.3	171
12	Diffusion pseudotime robustly reconstructs lineage branching. <i>Nature Methods</i> , 2016, 13, 845-848.	9.0	982
13	Strictly single-site DMRG algorithm with subspace expansion. <i>Physical Review B</i> , 2015, 91, .	1.1	98
14	How to discretize a quantum bath for real-time evolution. <i>Physical Review B</i> , 2015, 92, .	1.1	50
15	Nonthermal Melting of Néel Order in the Hubbard Model. <i>Physical Review X</i> , 2015, 5, .	2.8	25
16	Diffusion and Segregation Model for the Annealing of Silicon Solar Cells Implanted With Phosphorus. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 129-136.	1.5	0
17	Imaginary-Time Matrix Product State Impurity Solver for Dynamical Mean-Field Theory. <i>Physical Review X</i> , 2015, 5, .	2.8	45
18	Spectral functions and time evolution from the Chebyshev recursion. <i>Physical Review B</i> , 2015, 91, .	1.1	44

#	ARTICLE	IF	CITATIONS
19	Electrical and Structural Analysis of Crystal Defects After High-Temperature Rapid Thermal Annealing of Highly Boron Ion-Implanted Emitters. IEEE Journal of Photovoltaics, 2015, 5, 166-173.	1.5	13
20	Modeling the Annealing of Dislocation Loops in Implanted c-Si Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 851-858.	1.5	11
21	Chebyshev matrix product state impurity solver for dynamical mean-field theory. Physical Review B, 2014, 90, .	1.1	65
22	Solving nonequilibrium dynamical mean-field theory using matrix product states. Physical Review B, 2014, 90, .	1.1	91
23	A comprehensive model for the diffusion of boron in silicon in presence of fluorine. Solid-State Electronics, 2013, 87, 4-10.	0.8	3
24	Dynamical correlation functions and the quantum Rabi model. Physical Review A, 2013, 87, .	1.0	41
25	Supercurrent through Grain Boundaries of Cuprate Superconductors in the Presence of Strong Correlations. Physical Review Letters, 2012, 108, 117002.	2.9	8
26	Exact real-time dynamics of the quantum Rabi model. Physical Review A, 2012, 85, .	1.0	52
27	Expansion of Bose-Hubbard Mott insulators in optical lattices. Physical Review A, 2011, 84, .	1.0	28
28	Generalized Gibbs ensemble prediction of prethermalization plateaus and their relation to nonthermal steady states in integrable systems. Physical Review B, 2011, 84, .	1.1	221
29	Collapse and revival oscillations as a probe for the tunneling amplitude in an ultracold Bose gas. Physical Review A, 2010, 82, .	1.0	18
30	New theoretical approaches for correlated systems in nonequilibrium. European Physical Journal: Special Topics, 2009, 180, 217-235.	1.2	52