Charles K Fisher

List of Publications by Year
in descending order

17 papers	1,833 citations	687363 13 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	2733 citing authors

#	Article	IF	Citations
1	A high-bias, low-variance introduction to Machine Learning for physicists. Physics Reports, 2019, 810, 1-124.	25.6	607
2	Identifying Keystone Species in the Human Gut Microbiome from Metagenomic Timeseries Using Sparse Linear Regression. PLoS ONE, 2014, 9, e102451.	2.5	273
3	Visualizing spatially correlated dynamics that directs RNA conformational transitions. Nature, 2007, 450, 1263-1267.	27.8	236
4	Modeling Intrinsically Disordered Proteins with Bayesian Statistics. Journal of the American Chemical Society, 2010, 132, 14919-14927.	13.7	157
5	The transition between the niche and neutral regimes in ecology. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13111-13116.	7.1	145
6	Explaining the Structural Plasticity of α-Synuclein. Journal of the American Chemical Society, 2011, 133, 19536-19546.	13.7	108
7	The Dynamic Structure of α-Synuclein Multimers. Journal of the American Chemical Society, 2013, 135, 3865-3872.	13.7	91
8	Thermodynamics of Statistical Inference by Cells. Physical Review Letters, 2014, 113, 148103.	7.8	75
9	Comparative Studies of Disordered Proteins with Similar Sequences: Application to Aβ40 and Aβ42. Biophysical Journal, 2013, 104, 1546-1555.	0.5	31
10	Protein Structure along the Order–Disorder Continuum. Journal of the American Chemical Society, 2011, 133, 10022-10025.	13.7	25
11	Ultrahigh Resolution Characterization of Domain Motions and Correlations by Multialignment and Multireference Residual Dipolar Coupling NMR. Journal of Physical Chemistry B, 2008, 112, 16815-16822.	2.6	19
12	Analytically tractable model for community ecology with many species. Physical Review E, 2016, 94, 022423.	2.1	19
13	Bayesian feature selection for high-dimensional linear regression via the Ising approximation with applications to genomics. Bioinformatics, 2015, 31, 1754-1761.	4.1	15
14	Approximate Reconstruction of Continuous Spatially Complex Domain Motions by Multialignment NMR Residual Dipolar Couplings. Journal of Physical Chemistry B, 2009, 113, 6173-6176.	2.6	13
15	Variable habitat conditions drive species covariation in the human microbiota. PLoS Computational Biology, 2017, 13, e1005435.	3.2	9
16	Bayesian Feature Selection with Strongly Regularizing Priors Maps to the Ising Model. Neural Computation, 2015, 27, 2411-2422.	2.2	6
17	Analyzing Ensembles of Amyloid Proteins Using Bayesian Statistics. Methods in Molecular Biology, 2016, 1345, 269-280.	0.9	4