Edoardo M Airoldi

List of Publications by Year
in descending order

69 papers	**5,829** citations	172386 **29** h-index	128225 **60** g-index
78 all docs	**78** docs citations	**78** times ranked	**9611** citing authors

#	Article	IF	Citations
1	Analysis and design of RNA sequencing experiments for identifying isoform regulation. Nature Methods, 2010, 7, 1009-1015.	9.0	1,224
2	Coordination of Growth Rate, Cell Cycle, Stress Response, and Metabolic Activity in Yeast. Molecular Biology of the Cell, 2008, 19, 352-367.	0.9	524
3	Mixed Membership Stochastic Blockmodels. Journal of Machine Learning Research, 2008, 9, 1981-2014.	62.4	515
4	A Model of Text for Experimentation in the Social Sciences. Journal of the American Statistical Association, 2016, 111, 988-1003.	1.8	419
5	Reversible, Specific, Active Aggregates of Endogenous Proteins Assemble upon Heat Stress. Cell, 2015, 162, 1286-1298.	13.5	395
6	Systems-level dynamic analyses of fate change in murine embryonic stem cells. Nature, 2009, 462, 358-362.	13.7	277
7	Differential Stoichiometry among Core Ribosomal Proteins. Cell Reports, 2015, 13, 865-873.	2.9	178
8	Post-transcriptional regulation across human tissues. PLoS Computational Biology, 2017, 13, e1005535.	1.5	171
9	Accounting for Experimental Noise Reveals That mRNA Levels, Amplified by Post-Transcriptional Processes, Largely Determine Steady-State Protein Levels in Yeast. PLoS Genetics, 2015, 11, e1005206.	1.5	164
10	Defining the Essential Function of Yeast Hsf1 Reveals a Compact Transcriptional Program for Maintaining Eukaryotic Proteostasis. Molecular Cell, 2016, 63, 60-71.	4.5	143
11	Quantitative visualization of alternative exon expression from RNA-seq data. Bioinformatics, 2015, 31, 2400-2402.	1.8	142
12	Predicting Cellular Growth from Gene Expression Signatures. PLoS Computational Biology, 2009, 5, e1000257.	1.5	97
13	Musashi proteins are post-transcriptional regulators of the epithelial-luminal cell state. ELife, 2014, 3, e03915.	2.8	88
14	Constant Growth Rate Can Be Supported by Decreasing Energy Flux and Increasing Aerobic Glycolysis. Cell Reports, 2014, 7, 705-714.	2.9	85
15	A natural experiment of social network formation and dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6595-6600.	3.3	85
16	Improving and Evaluating Topic Models and Other Models of Text. Journal of the American Statistical Association, 2016, 111, 1381-1403.	1.8	83
17	Predicting traffic volumes and estimating the effects of shocks in massive transportation systems. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5643-5648.	3.3	74
18	Stacking models for nearly optimal link prediction in complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23393-23400.	3.3	74

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19	The Structure of Negative Social Ties in Rural Village Networks. Sociological Science, 2019, 6, 197-218.	2.0	74
20	Assessing the Impact of Granular Privacy Controls on Content Sharing and Disclosure on Facebook. Information Systems Research, 2016, 27, 848-879.	2.2	69
21	Asymptotic and finite-sample properties of estimators based on stochastic gradients. Annals of Statistics, 2017, 45, .	1.4	48
22	Estimating Selection on Synonymous Codon Usage from Noisy Experimental Data. Molecular Biology and Evolution, 2013, 30, 1438-1453.	3.5	44
23	A Network Analysis Model for Disambiguation of Names in Lists. Computational and Mathematical Organization Theory, 2005, 11, 119-139.	1.5	43
24	Sampling algorithms for pure network topologies. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2005, 7, 13-22.	3.2	43
25	A conserved cell growth cycle can account for the environmental stress responses of divergent eukaryotes. Molecular Biology of the Cell, 2012, 23, 1986-1997.	0.9	43
26	Getting Started in Probabilistic Graphical Models. PLoS Computational Biology, 2007, 3, e252.	1.5	42
27	Identification and Estimation of Treatment and Interference Effects in Observational Studies on Networks. Journal of the American Statistical Association, 2021, 116, 901-918.	1.8	42
28	Who wrote Ronald Reagan's radio addresses?. Bayesian Analysis, 2006, 1, 289.	1.6	33
29	Network sampling and classification: An investigation of network model representations. Decision Support Systems, 2011, 51, 506-518.	3.5	33
30	Steady-state and dynamic gene expression programs in <i>Saccharomyces cerevisiae</i> in response to variation in environmental nitrogen. Molecular Biology of the Cell, 2016, 27, 1383-1396.	0.9	32
31	Generalized Species Sampling Priors With Latent Beta Reinforcements. Journal of the American Statistical Association, 2014, 109, 1466-1480.	1.8	30
32	Intersection of the Web-Based Vaping Narrative With COVID-19: Topic Modeling Study. Journal of Medical Internet Research, 2020, 22, e21743.	2.1	28
33	A latent mixed membership model for relational data. , 2005, , .		25
34	Scalable estimation strategies based on stochastic approximations: classical results and new insights. Statistics and Computing, 2015, 25, 781-795.	0.8	25
35	Reconceptualizing the classification of PNAS articles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20899-20904.	3.3	24
36	Mapping Dynamic Histone Acetylation Patterns to Gene Expression in Nanog-Depleted Murine Embryonic Stem Cells. PLoS Computational Biology, 2010, 6, e1001034.	1.5	23

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37	Model-assisted design of experiments in the presence of network-correlated outcomes. Biometrika, 2018, 105, 849-858.	1.3	23
38	Estimating Latent Processes on a Network From Indirect Measurements. Journal of the American Statistical Association, 2013, 108, 149-164.	1.8	21
39	A Coevolution Model of Network Structure and User Behavior: The Case of Content Generation in Online Social Networks. Information Systems Research, 2019, 30, 117-132.	2.2	21
40	Cyclic motifs in the Sardex monetary network. Nature Human Behaviour, 2018, 2, 822-829.	6.2	19
41	Limitations of Design-based Causal Inference and A/B Testing under Arbitrary and Network Interference. Sociological Methodology, 2018, 48, 136-151.	1.4	17
42	Quantifying Homologous Proteins and Proteoforms. Molecular and Cellular Proteomics, 2019, 18, 162-168.	2.5	17
43	A computational approach to map nucleosome positions and alternative chromatin states with base pair resolution. ELife, 2016, 5, .	2.8	16
44	Markov Blankets and Meta-heuristics Search: Sentiment Extraction from Unstructured Texts. Lecture Notes in Computer Science, 2006, , 167-187.	1.0	15
45	An entropy approach to disclosure risk assessment: Lessons from real applications and simulated domains. Decision Support Systems, 2011, 51, 10-20.	3.5	12
46	Estimating a Structured Covariance Matrix From Multilab Measurements in High-Throughput Biology. Journal of the American Statistical Association, 2015, 110, 27-44.	1.8	12
47	Combining Stochastic Block Models and Mixed Membership for Statistical Network Analysis. , 2006, , 57-74.		12
48	Recovering latent time-series from their observed sums. , 2004, , .		10
49	Whose Ideas? Whose Words? Authorship of Ronald Reagan's Radio Addresses. PS - Political Science and Politics, 2007, 40, 501-506.	0.3	10
50	Confidence sets for network structure. Statistical Analysis and Data Mining, 2011, 4, 461-469.	1.4	10
51	SLANTS: Sequential Adaptive Nonlinear Modeling of Time Series. IEEE Transactions on Signal Processing, 2017, 65, 4994-5005.	3.2	10
52	Multi-way blockmodels for analyzing coordinated high-dimensional responses. Annals of Applied Statistics, 2013, 7, 2431-2457.	0.5	9
53	Hybrid Mixed-Membership Blockmodel for Inference on Realistic Network Interactions. IEEE Transactions on Network Science and Engineering, 2019, 6, 336-350.	4.1	9
54	Nonstandard conditionally specified models for nonignorable missing data. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19045-19053.	3.3	9

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55	A Multivariate Computational Method to Analyze High-Content RNAi Screening Data. Journal of Biomolecular Screening, 2015, 20, 985-997.	2.6	8
56	Quantifying Condition-Dependent Intracellular Protein Levels Enables High-Precision Fitness Estimates. PLoS ONE, 2013, 8, e75320.	1.1	8
57	Geometric Representations of Random Hypergraphs. Journal of the American Statistical Association, 2017, 112, 363-383.	1.8	6
58	The Effects of Location Access Behavior on Re-identification Risk in a Distributed Environment. Lecture Notes in Computer Science, 2006, , 413-429.	1.0	5
59	Discovery of Latent Patterns with Hierarchical Bayesian Mixed-Membership Models and the Issue of Model Choice. , 2008, , 240-275.		5
60	Ranking relations using analogies in biological and information networks. Annals of Applied Statistics, 2010, 4, 615-644.	0.5	3
61	Estimation of exchangeable graph models by stochastic blockmodel approximation. , 2013, , .		3
62	Investigating the Impact of Network Effects on Content Generation: Evidence from a Large Online Student Network. SSRN Electronic Journal, 0, , .	0.4	3
63	The Proximal Robbins–Monro Method. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2021, 83, 188-212.	1.1	3
64	Estimating Causal Effects on Social Networks. , 2018, , .		2
65	Template-Based Models for Genome-Wide Analysis of Next-Generation Sequencing Data at Base-Pair Resolution. Journal of the American Statistical Association, 2016, 111, 967-987.	1.8	1
66	Species Sampling Priors for Modeling Dependence: An Application to the Detection of Chromosomal Aberrations. , 2015, , 97-114.		1
67	Small sets of interacting proteins suggest functional linkage mechanisms via Bayesian analogical reasoning. Bioinformatics, 2011, 27, i374-i382.	1.8	0
68	Stephen E. Fienberg's Contributions to Categorical Data Analysis and the Social Sciences. Chance, 2013, 26, 12-14.	0.1	0
69	Statistical Challenges in Network Analysis. SSRN Electronic Journal, 0, , .	0.4	0