Erin K O'shea

List of Publications by Year
in descending order

41 papers	5,070 citations	172457 29 h-index	276875 41 g-index
48 all docs	48 docs citations	48 times ranked	5792 citing authors

#	Article	IF	Citations
1	The LRRK2 G2019S mutation alters astrocyte-to-neuron communication via extracellular vesicles and induces neuron atrophy in a human iPSC-derived model of Parkinsonâ€™s disease. ELife, 2021, 10, .	6.0	36
2	A proposal for the future of scientific publishing in the life sciences. PLoS Biology, 2019, 17, e3000116.	5.6	49
3	Looking back and looking forward at Janelia. ELife, 2019, 8, .	6.0	4
4	Dynamical localization of a thylakoid membrane binding protein is required for acquisition of photosynthetic competency. Molecular Microbiology, 2018, 108, 16-31.	2.5	27
5	An RpaA-Dependent Sigma Factor Cascade Sets the Timing of Circadian Transcriptional Rhythms in Synechococcus elongatus. Cell Reports, 2018, 25, 2937-2945.e3.	6.4	16
6	Identification of a transporter complex responsible for the cytosolic entry of nitrogen-containing bisphosphonates. ELife, 2018, 7, .	6.0	42
7	Translational Control through Differential Ribosome Pausing during Amino Acid Limitation in Mammalian Cells. Molecular Cell, 2018, 71, 229-243.e11.	9.7	123
8	Cyanobacteria Maintain Constant Protein Concentration despite Genome Copy-Number Variation. Cell Reports, 2017, 19, 497-504.	6.4	46
9	Inference and Evolutionary Analysis of Genome-Scale Regulatory Networks in Large Phylogenies. Cell Systems, 2017, 4, 543-558.e8.	6.2	40
10	Not just Salk. Science, 2017, 357, 1105-1106.	12.6	4
11	An Unstable Singularity Underlies Stochastic Phasing of the Circadian Clock in Individual Cyanobacterial Cells. Molecular Cell, 2017, 67, 659-672.e12.	9.7	13
12	ppGpp Controls Global Gene Expression in Light and in Darkness in S.Âelongatus. Cell Reports, 2017, 21, 3155-3165.	6.4	34
13	Evolution of reduced co-activator dependence led to target expansion of a starvation response pathway. ELife, 2017, 6, .	6.0	18
14	Natural changes in light interact with circadian regulation at promoters to control gene expression in cyanobacteria. ELife, 2017, 6, .	6.0	25
15	A systematic genetic screen for genes involved in sensing inorganic phosphate availability in Saccharomyces cerevisiae. PLoS ONE, 2017, 12, e0176085.	2.5	25
16	Switching of metabolic programs in response to light availability is an essential function of the cyanobacterial circadian output pathway. ELife, 2017, 6, .	6.0	40
17	Encoding four gene expression programs in the activation dynamics of a single transcription factor. Current Biology, 2016, 26, R269-R271.	3.9	44
18	The anticancer natural product ophiobolin A induces cytotoxicity by covalent modification of phosphatidylethanolamine. ELife, 2016, 5, .	6.0	44

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19	A computational approach to map nucleosome positions and alternative chromatin states with base pair resolution. ELife, 2016, 5, .	6.0	16
20	cis Determinants of Promoter Threshold and Activation Timescale. Cell Reports, 2015, 12, 1226-1233.	6.4	39
21	High-throughput microfluidics to control and measure signaling dynamics in single yeast cells. Nature Protocols, 2015, 10, 1181-1197.	12.0	84
22	Limits on information transduction through amplitude and frequency regulation of transcription factor activity. ELife, 2015, 4, .	6.0	106
23	An Integrated Approach Reveals Regulatory Controls on Bacterial Translation Elongation. Cell, 2014, 159, 1200-1211.	28.9	131
24	Promoter sequences direct cytoplasmic localization and translation of mRNAs during starvation in yeast. Nature, 2014, 514, 117-121.	27.8	191
25	Mechanisms of organelle biogenesis govern stochastic fluctuations in organelle abundance. ELife, 2014, 3, e02678.	6.0	51
26	Circadian Control of Global Gene Expression by the Cyanobacterial Master Regulator RpaA. Cell, 2013, 155, 1396-1408.	28.9	134
27	Two Antagonistic Clock-Regulated Histidine Kinases Time the Activation of Circadian Gene Expression. Molecular Cell, 2013, 50, 288-294.	9.7	101
28	Robust Circadian Oscillations in Growing Cyanobacteria Require Transcriptional Feedback. Science, 2013, 340, 737-740.	12.6	98
29	Promoter decoding of transcription factor dynamics involves a tradeâ€off between noise and control of gene expression. Molecular Systems Biology, 2013, 9, 704.	7.2	138
30	Signal-dependent dynamics of transcription factor translocation controls gene expression. Nature Structural and Molecular Biology, 2012, 19, 31-39.	8.2	275
31	Light-Driven Changes in Energy Metabolism Directly Entrain the Cyanobacterial Circadian Oscillator. Science, 2011, 331, 220-223.	12.6	205
32	Integrated Approaches Reveal Determinants of Genome-wide Binding and Function of the Transcription Factor Pho4. Molecular Cell, 2011, 42, 826-836.	9.7	101
33	Oscillations in supercoiling drive circadian gene expression in cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22564-22568.	7.1	163
34	A quantitative model of transcription factorâ€“activated gene expression. Nature Structural and Molecular Biology, 2008, 15, 1192-1198.	8.2	133
35	Structure and function of a transcriptional network activated by the MAPK Hog1. Nature Genetics, 2008, 40, 1300-1306.	21.4	197
36	Chromatin decouples promoter threshold from dynamic range. Nature, 2008, 453, 246-250.	27.8	226

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37	Ordered Phosphorylation Governs Oscillation of a Three-Protein Circadian Clock. Science, 2007, 318, 809-812.	12.6	352
38	Positive Feedback Regulates Switching of Phosphate Transporters in S. cerevisiae. Molecular Cell, 2007, 27, 1005-1013.	9.7	111
39	A Systematic High-Throughput Screen of a Yeast Deletion Collection for Mutants Defective in PHO5 Regulation. Genetics, 2005, 169, 1859-1871.	2.9	60
40	Control of Stochasticity in Eukaryotic Gene Expression. Science, 2004, 304, 1811-1814.	12.6	1,321
41	Phosphate Transport and Sensing in <i>Saccharomyces cerevisiae</i>. Genetics, 2001, 159, 1491-1499.	2.9	205