

# Erin K O'shea

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Control of Stochasticity in Eukaryotic Gene Expression. <i>Science</i> , 2004, 304, 1811-1814.	12.6	1,321
2	Ordered Phosphorylation Governs Oscillation of a Three-Protein Circadian Clock. <i>Science</i> , 2007, 318, 809-812.	12.6	352
3	Signal-dependent dynamics of transcription factor translocation controls gene expression. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 31-39.	8.2	275
4	Chromatin decouples promoter threshold from dynamic range. <i>Nature</i> , 2008, 453, 246-250.	27.8	226
5	Light-Driven Changes in Energy Metabolism Directly Entrain the Cyanobacterial Circadian Oscillator. <i>Science</i> , 2011, 331, 220-223.	12.6	205
6	Phosphate Transport and Sensing in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2001, 159, 1491-1499.	2.9	205
7	Structure and function of a transcriptional network activated by the MAPK Hog1. <i>Nature Genetics</i> , 2008, 40, 1300-1306.	21.4	197
8	Promoter sequences direct cytoplasmic localization and translation of mRNAs during starvation in yeast. <i>Nature</i> , 2014, 514, 117-121.	27.8	191
9	Oscillations in supercoiling drive circadian gene expression in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22564-22568.	7.1	163
10	Promoter decoding of transcription factor dynamics involves a trade-off between noise and control of gene expression. <i>Molecular Systems Biology</i> , 2013, 9, 704.	7.2	138
11	Circadian Control of Global Gene Expression by the Cyanobacterial Master Regulator RpaA. <i>Cell</i> , 2013, 155, 1396-1408.	28.9	134
12	A quantitative model of transcription factor-activated gene expression. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1192-1198.	8.2	133
13	An Integrated Approach Reveals Regulatory Controls on Bacterial Translation Elongation. <i>Cell</i> , 2014, 159, 1200-1211.	28.9	131
14	Translational Control through Differential Ribosome Pausing during Amino Acid Limitation in Mammalian Cells. <i>Molecular Cell</i> , 2018, 71, 229-243.e11.	9.7	123
15	Positive Feedback Regulates Switching of Phosphate Transporters in <i>S. cerevisiae</i> . <i>Molecular Cell</i> , 2007, 27, 1005-1013.	9.7	111
16	Limits on information transduction through amplitude and frequency regulation of transcription factor activity. <i>ELife</i> , 2015, 4, .	6.0	106
17	Integrated Approaches Reveal Determinants of Genome-wide Binding and Function of the Transcription Factor Pho4. <i>Molecular Cell</i> , 2011, 42, 826-836.	9.7	101
18	Two Antagonistic Clock-Regulated Histidine Kinases Time the Activation of Circadian Gene Expression. <i>Molecular Cell</i> , 2013, 50, 288-294.	9.7	101

#	ARTICLE	IF	CITATIONS
19	Robust Circadian Oscillations in Growing Cyanobacteria Require Transcriptional Feedback. <i>Science</i> , 2013, 340, 737-740.	12.6	98
20	High-throughput microfluidics to control and measure signaling dynamics in single yeast cells. <i>Nature Protocols</i> , 2015, 10, 1181-1197.	12.0	84
21	A Systematic High-Throughput Screen of a Yeast Deletion Collection for Mutants Defective in PHO5 Regulation. <i>Genetics</i> , 2005, 169, 1859-1871.	2.9	60
22	Mechanisms of organelle biogenesis govern stochastic fluctuations in organelle abundance. <i>ELife</i> , 2014, 3, e02678.	6.0	51
23	A proposal for the future of scientific publishing in the life sciences. <i>PLoS Biology</i> , 2019, 17, e3000116.	5.6	49
24	Cyanobacteria Maintain Constant Protein Concentration despite Genome Copy-Number Variation. <i>Cell Reports</i> , 2017, 19, 497-504.	6.4	46
25	Encoding four gene expression programs in the activation dynamics of a single transcription factor. <i>Current Biology</i> , 2016, 26, R269-R271.	3.9	44
26	The anticancer natural product ophiobolin A induces cytotoxicity by covalent modification of phosphatidylethanolamine. <i>ELife</i> , 2016, 5, .	6.0	44
27	Identification of a transporter complex responsible for the cytosolic entry of nitrogen-containing bisphosphonates. <i>ELife</i> , 2018, 7, .	6.0	42
28	Inference and Evolutionary Analysis of Genome-Scale Regulatory Networks in Large Phylogenies. <i>Cell Systems</i> , 2017, 4, 543-558.e8.	6.2	40
29	Switching of metabolic programs in response to light availability is an essential function of the cyanobacterial circadian output pathway. <i>ELife</i> , 2017, 6, .	6.0	40
30	cis Determinants of Promoter Threshold and Activation Timescale. <i>Cell Reports</i> , 2015, 12, 1226-1233.	6.4	39
31	The LRRK2 G2019S mutation alters astrocyte-to-neuron communication via extracellular vesicles and induces neuron atrophy in a human iPSC-derived model of Parkinson's disease. <i>ELife</i> , 2021, 10, .	6.0	36
32	ppGpp Controls Global Gene Expression in Light and in Darkness in <i>S.Âelongatus</i> . <i>Cell Reports</i> , 2017, 21, 3155-3165.	6.4	34
33	Dynamical localization of a thylakoid membrane binding protein is required for acquisition of photosynthetic competency. <i>Molecular Microbiology</i> , 2018, 108, 16-31.	2.5	27
34	Natural changes in light interact with circadian regulation at promoters to control gene expression in cyanobacteria. <i>ELife</i> , 2017, 6, .	6.0	25
35	A systematic genetic screen for genes involved in sensing inorganic phosphate availability in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2017, 12, e0176085.	2.5	25
36	Evolution of reduced co-activator dependence led to target expansion of a starvation response pathway. <i>ELife</i> , 2017, 6, .	6.0	18

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37	An RpaA-Dependent Sigma Factor Cascade Sets the Timing of Circadian Transcriptional Rhythms in <i>Synechococcus elongatus</i> . <i>Cell Reports</i> , 2018, 25, 2937-2945.e3.	6.4	16
38	A computational approach to map nucleosome positions and alternative chromatin states with base pair resolution. <i>ELife</i> , 2016, 5, .	6.0	16
39	An Unstable Singularity Underlies Stochastic Phasing of the Circadian Clock in Individual Cyanobacterial Cells. <i>Molecular Cell</i> , 2017, 67, 659-672.e12.	9.7	13
40	Not just Salk. <i>Science</i> , 2017, 357, 1105-1106.	12.6	4
41	Looking back and looking forward at <i>Janelia</i> . <i>ELife</i> , 2019, 8, .	6.0	4