

# Erel Levine

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26  
papers

972  
citations

14  
h-index

30  
g-index

30  
ext. papers

1,139  
ext. citations

6.8  
avg. IF

4.38  
L-index

#	Paper	IF	Citations
26	Primer on Mathematical Modeling in <i>C. elegans</i> . <i>Methods in Molecular Biology</i> , <b>2022</b> , 2468, 375-386	1.4	
25	Microfluidic approaches for research. <i>Animal Cells and Systems</i> , <b>2020</b> , 24, 311-320	2.3	5
24	A Microfluidic Platform for Longitudinal Imaging in <i>Caenorhabditis elegans</i> . <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	2
23	Serotonin-dependent kinetics of feeding bursts underlie a graded response to food availability in <i>C. elegans</i> . <i>Nature Communications</i> , <b>2017</b> , 8, 14221	17.4	39
22	Sub-cellular mRNA localization modulates the regulation of gene expression by small RNAs in bacteria. <i>Physical Biology</i> , <b>2017</b> , 14, 056001	3	12
21	Stochastic feeding dynamics arise from the need for information and energy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9261-9266	11.5	11
20	Dynamics of translation can determine the spatial organization of membrane-bound proteins and their mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13424-13429	11.5	9
19	Mechanisms of fast and stringent search in homologous pairing of double-stranded DNA. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005421	5	5
18	A scalable method for automatically measuring pharyngeal pumping in <i>C. elegans</i> . <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 274, 172-178	3	23
17	Sort-seq under the hood: implications of design choices on large-scale characterization of sequence-function relations. <i>BMC Genomics</i> , <b>2016</b> , 17, 206	4.5	32
16	Serotonin promotes exploitation in complex environments by accelerating decision-making. <i>BMC Biology</i> , <b>2016</b> , 14, 9	7.3	28
15	HandKChip - Hands-free killing assay on a chip. <i>Scientific Reports</i> , <b>2016</b> , 6, 35862	4.9	6
14	A Primer on Quantitative Modeling. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1327, 241-50	1.4	1
13	Durable spatiotemporal surveillance of <i>Caenorhabditis elegans</i> response to environmental cues. <i>Lab on A Chip</i> , <b>2014</b> , 14, 764-70	7.2	40
12	Homeostasis in <i>C. elegans</i> sleep is characterized by two behaviorally and genetically distinct mechanisms. <i>ELife</i> , <b>2014</b> , 3, e04380	8.9	42
11	Exploring the miRNA regulatory network using evolutionary correlations. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003860	5	5
10	Quantitative effect of target translation on small RNA efficacy reveals a novel mode of interaction. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 12200-11	20.1	10

9	Large-scale mapping of sequence-function relations in small regulatory RNAs reveals plasticity and modularity. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 12177-88	20.1	25
8	Regulating the many to benefit the few: role of weak small RNA targets. <i>Biophysical Journal</i> , <b>2013</b> , 104, 1773-82	2.9	19
7	Small RNA biology is systems biology. <i>BMB Reports</i> , <b>2011</b> , 44, 11-21	5.5	30
6	Small RNAs establish gene expression thresholds. <i>Current Opinion in Microbiology</i> , <b>2008</b> , 11, 574-9	7.9	108
5	Target-specific and global effectors in gene regulation by MicroRNA. <i>Biophysical Journal</i> , <b>2007</b> , 93, L52-42.9	4.9	44
4	Small regulatory RNAs may sharpen spatial expression patterns. <i>PLoS Computational Biology</i> , <b>2007</b> , 3, e233	5	79
3	Quantitative characteristics of gene regulation by small RNA. <i>PLoS Biology</i> , <b>2007</b> , 5, e229	9.7	305
2	Stochastic fluctuations in metabolic pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 9224-9	11.5	91
1	Dynamics of Heat Shock Detection and Response in the Intestine of <i>Caenorhabditis elegans</i>		1