

# Felix Naef

## 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.

108  
papers

8,140  
citations

45  
h-index

90  
g-index

129  
ext. papers

9,648  
ext. citations

10.8  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
108	Comment on "Circadian rhythms in the absence of the clock gene ". <i>Science</i> , <b>2021</b> , 372,	33.3	3
107	Systematic analysis of differential rhythmic liver gene expression mediated by the circadian clock and feeding rhythms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	29
106	Space-time logic of liver gene expression at sub-lobular scale. <i>Nature Metabolism</i> , <b>2021</b> , 3, 43-58	14.6	18
105	Oscillating and stable genome topologies underlie hepatic physiological rhythms during the circadian cycle. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009350	6	3
104	The circadian oscillator analysed at the single-transcript level. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10135.2	13.5	1
103	The Effects of Time-Restricted Eating versus Standard Dietary Advice on Weight, Metabolic Health and the Consumption of Processed Food: A Pragmatic Randomised Controlled Trial in Community-Based Adults. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	8
102	How to tell time: advances in decoding circadian phase from omics snapshots. <i>F1000Research</i> , <b>2020</b> , 9,	3.6	2
101	What determines eukaryotic translation elongation: recent molecular and quantitative analyses of protein synthesis. <i>Open Biology</i> , <b>2020</b> , 10, 200292	7	6
100	Robust landscapes of ribosome dwell times and aminoacyl-tRNAs in response to nutrient stress in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 9630-9641	11.5	13
99	Engineered signaling centers for the spatially controlled patterning of human pluripotent stem cells. <i>Nature Methods</i> , <b>2019</b> , 16, 640-648	21.6	69
98	Memory and relatedness of transcriptional activity in mammalian cell lineages. <i>Nature Communications</i> , <b>2019</b> , 10, 1208	17.4	12
97	Quantitative relationships between SMAD dynamics and target gene activation kinetics in single live cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 5372	4.9	6
96	Low-dimensional Dynamics of Two Coupled Biological Oscillators. <i>Nature Physics</i> , <b>2019</b> , 15, 1086-1094	16.2	11
95	Sleep-wake-driven and circadian contributions to daily rhythms in gene expression and chromatin accessibility in the murine cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 25773-25783	11.5	27
94	Differential regulation of RNA polymerase III genes during liver regeneration. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 1786-1796	20.1	7
93	The Mouse Microbiome Is Required for Sex-Specific Diurnal Rhythms of Gene Expression and Metabolism. <i>Cell Metabolism</i> , <b>2019</b> , 29, 362-382.e8	24.6	109
92	Circadian clock-dependent and -independent posttranscriptional regulation underlies temporal mRNA accumulation in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1916-E1925	11.5	36

91	Transcription factor activity rhythms and tissue-specific chromatin interactions explain circadian gene expression across organs. <i>Genome Research</i> , <b>2018</b> , 28, 182-191	9.7	58
90	Clock-dependent chromatin topology modulates circadian transcription and behavior. <i>Genes and Development</i> , <b>2018</b> , 32, 347-358	12.6	59
89	Single Live Cell Monitoring of Protein Turnover Reveals Intercellular Variability and Cell-Cycle Dependence of Degradation Rates. <i>Molecular Cell</i> , <b>2018</b> , 71, 1079-1091.e9	17.6	30
88	Modulation of transcriptional burst frequency by histone acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7153-7158	11.5	67
87	Rhythms of the Genome: Circadian Dynamics from Chromatin Topology, Tissue-Specific Gene Expression, to Behavior. <i>Trends in Genetics</i> , <b>2018</b> , 34, 915-926	8.5	26
86	Cross-regulatory circuits linking inflammation, high-fat diet, and the circadian clock. <i>Genes and Development</i> , <b>2018</b> , 32, 1359-1360	12.6	12
85	Systems Chronobiology: Global Analysis of Gene Regulation in a 24-Hour Periodic World. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2017</b> , 9,	10.2	28
84	A new promoter element associated with daily time keeping in Drosophila. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 6459-6470	20.1	4
83	What shapes eukaryotic transcriptional bursting?. <i>Molecular BioSystems</i> , <b>2017</b> , 13, 1280-1290		71
82	Ribosome profiling and dynamic regulation of translation in mammals. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 43, 120-127	4.9	33
81	Transcriptional regulatory logic of the diurnal cycle in the mouse liver. <i>PLoS Biology</i> , <b>2017</b> , 15, e2001069	9.7	51
80	Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. <i>Cell Reports</i> , <b>2017</b> , 20, 1729-1743	13.6	51
79	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , <b>2017</b> , 32, 380-393	3.2	127
78	Nuclear Proteomics Uncovers Diurnal Regulatory Landscapes in Mouse Liver. <i>Cell Metabolism</i> , <b>2017</b> , 25, 102-117	24.6	113
77	Temperature regulates splicing efficiency of the cold-inducible RNA-binding protein gene Cirbp. <i>Genes and Development</i> , <b>2016</b> , 30, 2005-17	12.6	48
76	Revealing Assembly of a Pore-Forming Complex Using Single-Cell Kinetic Analysis and Modeling. <i>Biophysical Journal</i> , <b>2016</b> , 110, 1574-1581	2.9	7
75	CAST: An automated segmentation and tracking tool for the analysis of transcriptional kinetics from single-cell time-lapse recordings. <i>Methods</i> , <b>2015</b> , 85, 3-11	4.6	6
74	Structure of silent transcription intervals and noise characteristics of mammalian genes. <i>Molecular Systems Biology</i> , <b>2015</b> , 11, 823	12.2	69

73	Circadian and feeding rhythms differentially affect rhythmic mRNA transcription and translation in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6579-88	11.5	150
72	Quantitative analysis and modeling probe polarity establishment in <i>C. elegans</i> embryos. <i>Biophysical Journal</i> , <b>2015</b> , 108, 799-809	2.9	9
71	Circadian clock-dependent and -independent rhythmic proteomes implement distinct diurnal functions in mouse liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 167-72	11.5	227
70	Robust synchronization of coupled circadian and cell cycle oscillators in single mammalian cells. <i>Molecular Systems Biology</i> , <b>2014</b> , 10, 739	12.2	132
69	Two distinct promoter architectures centered on dynamic nucleosomes control ribosomal protein gene transcription. <i>Genes and Development</i> , <b>2014</b> , 28, 1695-709	12.6	76
68	Characteristic bimodal profiles of RNA polymerase II at thousands of active mammalian promoters. <i>Genome Biology</i> , <b>2014</b> , 15, R85	18.3	22
67	Non-circadian expression masking clock-driven weak transcription rhythms in U2OS cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e102238	3.7	15
66	Analysis of precision in chemical oscillators: implications for circadian clocks. <i>Physical Biology</i> , <b>2013</b> , 10, 056005	3	7
65	Absolute quantification of transcription factors during cellular differentiation using multiplexed targeted proteomics. <i>Nature Methods</i> , <b>2013</b> , 10, 570-6	21.6	72
64	A chemostat array enables the spatio-temporal analysis of the yeast proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 15842-7	11.5	103
63	The circadian clock coordinates ribosome biogenesis. <i>PLoS Biology</i> , <b>2013</b> , 11, e1001455	9.7	196
62	Stimulus-induced modulation of transcriptional bursting in a single mammalian gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 20563-8	11.5	89
61	Circadian Dbp transcription relies on highly dynamic BMAL1-CLOCK interaction with E boxes and requires the proteasome. <i>Molecular Cell</i> , <b>2012</b> , 48, 277-87	17.6	70
60	Genome-wide RNA polymerase II profiles and RNA accumulation reveal kinetics of transcription and associated epigenetic changes during diurnal cycles. <i>PLoS Biology</i> , <b>2012</b> , 10, e1001442	9.7	142
59	Cold-inducible RNA-binding protein modulates circadian gene expression posttranscriptionally. <i>Science</i> , <b>2012</b> , 338, 379-83	33.3	188
58	Computational analysis of protein-DNA interactions from ChIP-seq data. <i>Methods in Molecular Biology</i> , <b>2012</b> , 786, 263-73	1.4	9
57	Whole-embryo modeling of early segmentation in <i>Drosophila</i> identifies robust and fragile expression domains. <i>Biophysical Journal</i> , <b>2011</b> , 101, 287-96	2.9	31
56	Mammalian genes are transcribed with widely different bursting kinetics. <i>Science</i> , <b>2011</b> , 332, 472-4	33.3	616

55	Genome-wide and phase-specific DNA-binding rhythms of BMAL1 control circadian output functions in mouse liver. <i>PLoS Biology</i> , <b>2011</b> , 9, e1000595	9.7	333
54	Origins and consequences of transcriptional discontinuity. <i>Current Opinion in Cell Biology</i> , <b>2011</b> , 23, 657-62		37
53	Analysis of the dynamics of limb transcriptomes during mouse development. <i>BMC Developmental Biology</i> , <b>2011</b> , 11, 47	3.1	8
52	The telomere-binding protein Tbf1 demarcates snoRNA gene promoters in <i>Saccharomyces cerevisiae</i> . <i>Molecular Cell</i> , <b>2010</b> , 38, 614-20	17.6	44
51	ASSET: a robust algorithm for the automated segmentation and standardization of early <i>Caenorhabditis elegans</i> embryos. <i>Developmental Dynamics</i> , <b>2010</b> , 239, 3285-96	2.9	6
50	Stabilizing patterning in the <i>Drosophila</i> segment polarity network by selecting models in silico. <i>BioSystems</i> , <b>2010</b> , 102, 3-10	1.9	5
49	Systems Biology and Modeling of Circadian Rhythms <b>2010</b> , 283-293		1
48	A Self-regulatory System of Interlinked Signaling Feedback Loops Controls Mouse Limb Patterning. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 575-576	0.9	
47	A self-regulatory system of interlinked signaling feedback loops controls mouse limb patterning. <i>Science</i> , <b>2009</b> , 323, 1050-3	33.3	163
46	Relationship between estrogen receptor alpha location and gene induction reveals the importance of downstream sites and cofactors. <i>BMC Genomics</i> , <b>2009</b> , 10, 381	4.5	6
45	Circadian gene expression is resilient to large fluctuations in overall transcription rates. <i>EMBO Journal</i> , <b>2009</b> , 28, 123-34	13	118
44	Network inference by combining biologically motivated regulatory constraints with penalized regression. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1158, 114-24	6.5	2
43	Exploring the transcriptional landscape of plant circadian rhythms using genome tiling arrays. <i>Genome Biology</i> , <b>2009</b> , 10, R17	18.3	93
42	Probabilistic base calling of Solexa sequencing data. <i>BMC Bioinformatics</i> , <b>2008</b> , 9, 431	3.6	72
41	Genotypic features of lentivirus transgenic mice. <i>Journal of Virology</i> , <b>2008</b> , 82, 7111-9	6.6	29
40	Modeling an evolutionary conserved circadian cis-element. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e38	5	26
39	Stochastic phase oscillator models for circadian clocks. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 641, 141-9	3.6	2
38	Integration of light and temperature in the regulation of circadian gene expression in <i>Drosophila</i> . <i>PLoS Genetics</i> , <b>2007</b> , 3, e54	6	108

37	Representing perturbed dynamics in biological network models. <i>Physical Review E</i> , <b>2007</b> , 76, 011917	2.4	9
36	Dynamical signatures of cellular fluctuations and oscillator stability in peripheral circadian clocks. <i>Molecular Systems Biology</i> , <b>2007</b> , 3, 93	12.2	35
35	Stochastic phase oscillators and circadian bioluminescence recordings. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2007</b> , 72, 405-11	3.9	2
34	Identifying synergistic regulation involving c-Myc and sp1 in human tissues. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 1098-107	20.1	25
33	Similarities and differences of polyadenylation signals in human and fly. <i>BMC Genomics</i> , <b>2006</b> , 7, 176	4.5	39
32	Few crucial links assure checkpoint efficiency in the yeast cell-cycle network. <i>Bioinformatics</i> , <b>2006</b> , 22, 2539-46	7.2	9
31	Control of daily transcript oscillations in Drosophila by light and the circadian clock. <i>PLoS Genetics</i> , <b>2006</b> , 2, e39	6	103
30	Collective synchronization in populations of globally coupled phase oscillators with drifting frequencies. <i>Physical Review E</i> , <b>2006</b> , 73, 011104	2.4	25
29	Reply to Comment on Solving the riddle of the bright mismatches: Labeling and effective binding in oligonucleotide arrays. <i>Physical Review E</i> , <b>2006</b> , 73,	2.4	6
28	The nodal precursor acting via activin receptors induces mesoderm by maintaining a source of its convertases and BMP4. <i>Developmental Cell</i> , <b>2006</b> , 11, 313-23	10.2	231
27	In vivo transcriptional profile analysis reveals RNA splicing and chromatin remodeling as prominent processes for adult neurogenesis. <i>Molecular and Cellular Neurosciences</i> , <b>2006</b> , 31, 131-48	4.8	61
26	Cell-type-specific transcriptomics in chimeric models using transcriptome-based masks. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, e111	20.1	25
25	Molecular and statistical tools for circadian transcript profiling. <i>Methods in Enzymology</i> , <b>2005</b> , 393, 341-65	5.7	43
24	Cellular oscillators: rhythmic gene expression and metabolism. <i>Current Opinion in Cell Biology</i> , <b>2005</b> , 17, 223-9	9	120
23	Chemotaxis behavior mediated by single larval olfactory neurons in Drosophila. <i>Current Biology</i> , <b>2005</b> , 15, 2086-96	6.3	190
22	Freedom and rules: the acquisition and reprogramming of a bird's learned song. <i>Science</i> , <b>2005</b> , 308, 1046-53	9.3	99
21	Circadian clocks go in vitro: purely post-translational oscillators in cyanobacteria. <i>Molecular Systems Biology</i> , <b>2005</b> , 1, 2005.0019	12.2	12
20	Circadian gene expression in individual fibroblasts: cell-autonomous and self-sustained oscillators pass time to daughter cells. <i>Cell</i> , <b>2004</b> , 119, 693-705	56.2	794

19	Molecular signature of human embryonic stem cells and its comparison with the mouse. <i>Developmental Biology</i> , <b>2003</b> , 260, 404-13	3.1	406
18	Production of ribosome components in effector CD4+ T cells is accelerated by TCR stimulation and coordinated by ERK-MAPK. <i>Immunity</i> , <b>2003</b> , 19, 535-48	32.3	32
17	Solving the riddle of the bright mismatches: labeling and effective binding in oligonucleotide arrays. <i>Physical Review E</i> , <b>2003</b> , 68, 011906	2.4	147
16	Absolute mRNA concentrations from sequence-specific calibration of oligonucleotide arrays. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 1962-8	20.1	135
15	A study of accuracy and precision in oligonucleotide arrays: extracting more signal at large concentrations. <i>Bioinformatics</i> , <b>2003</b> , 19, 178-84	7.2	41
14	DNA hybridization to mismatched templates: a chip study. <i>Physical Review E</i> , <b>2002</b> , 65, 040902	2.4	93
13	Empirical characterization of the expression ratio noise structure in high-density oligonucleotide arrays. <i>Genome Biology</i> , <b>2002</b> , 3, RESEARCH0018	18.3	51
12	A process based assessment of the potential to reduce flood runoff by land use change. <i>Journal of Hydrology</i> , <b>2002</b> , 267, 74-79	6	105
11	Characterization of the expression ratio noise structure in high-density oligonucleotide arrays. <i>Genome Biology</i> , <b>2002</b> , 3, PREPRINT0001	18.3	3
10	Genomic and expression analysis of the 12p11-p12 amplicon using EST arrays identifies two novel amplified and overexpressed genes. <i>Cancer Research</i> , <b>2002</b> , 62, 6218-23	10.1	34
9	Circadian regulation of gene expression systems in the Drosophila head. <i>Neuron</i> , <b>2001</b> , 32, 657-71	13.9	383
8	Reactive hall response. <i>Physical Review Letters</i> , <b>2000</b> , 85, 377-80	7.4	14
7	Nuclear spin relaxation rates in two-Leg spin ladders. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1320-3	7.4	14
6	Autocorrelations from the transfer-matrix density-matrix renormalization-group method. <i>Physical Review B</i> , <b>1999</b> , 60, 359-368	3.3	23
5	Transport and conservation laws. <i>Physical Review B</i> , <b>1997</b> , 55, 11029-11032	3.3	396
4	Simple and complex interactions between sleep-wake driven and circadian processes shape daily genome regulatory dynamics in the mouse		1
3	Oscillating and stable genome topologies underlie hepatic physiological rhythms during the circadian cycle		1
2	Modeling ribosome dwell times and relationships with tRNA loading and codon usage in mammals		2

1 Transcription factor activity rhythms and tissue-specific chromatin interactions explain circadian gene expression across organs

1