Tanya L Leise

List of Publications by Year
in descending order

44	2,083	331670 21	254184 43
papers	citations	h-index	g-index

46	46	46	2349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	2.6	237
2	The $25,000,000,000 Eigenvector: The Linear Algebra behind Google. SIAM Review, 2006, 48, 569-581.	9.5	230
3	Dynamic Interactions Mediated by Nonredundant Signaling Mechanisms Couple Circadian Clock Neurons. Neuron, 2013, 80, 973-983.	8.1	179
4	Visualizing jet lag in the mouse suprachiasmatic nucleus and peripheral circadian timing system. European Journal of Neuroscience, 2009, 29, 171-180.	2.6	157
5	Aging Differentially Affects the Re-entrainment Response of Central and Peripheral Circadian Oscillators. Journal of Neuroscience, 2012, 32, 16193-16202.	3.6	132
6	Wavelet-Based Time Series Analysis of Circadian Rhythms. Journal of Biological Rhythms, 2011, 26, 454-463.	2.6	126
7	Intrinsic Regulation of Spatiotemporal Organization within the Suprachiasmatic Nucleus. PLoS ONE, 2011, 6, e15869.	2.5	94
8	Persistent Cell-Autonomous Circadian Oscillations in Fibroblasts Revealed by Six-Week Single-Cell Imaging of PER2::LUC Bioluminescence. PLoS ONE, 2012, 7, e33334.	2.5	82
9	Wavelet analysis of circadian and ultradian behavioral rhythms. Journal of Circadian Rhythms, 2014, 11, 5.	1.3	70
10	Calcium Circadian Rhythmicity in the Suprachiasmatic Nucleus: Cell Autonomy and Network Modulation. ENeuro, 2017, 4, ENEURO.0160-17.2017.	1.9	65
11	Network Dynamics Mediate Circadian Clock Plasticity. Neuron, 2017, 93, 441-450.	8.1	63
12	Light Evokes Rapid Circadian Network Oscillator Desynchrony Followed by Gradual Phase Retuning of Synchrony. Current Biology, 2015, 25, 858-867.	3.9	58
13	Dynamics and Ultradian Structure of Human Sleep in Real Life. Current Biology, 2018, 28, 49-59.e5.	3.9	51
14	Shell neurons of the master circadian clock coordinate the phase of tissue clocks throughout the brain and body. BMC Biology, 2015, 13, 43.	3.8	50
15	Making Do with Less: An Introduction to Compressed Sensing. SIAM Review, 2013, 55, 547-566.	9.5	45
16	Circadian Rhythms of PER2::LUC in Individual Primary Mouse Hepatocytes and Cultures. PLoS ONE, 2014, 9, e87573.	2.5	42
17	Wavelet Meets Actogram. Journal of Biological Rhythms, 2013, 28, 62-68.	2.6	41
18	mTOR signaling in VIP neurons regulates circadian clock synchrony and olfaction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3296-E3304.	7.1	36

#	Article	IF	Citations
19	Analysis of Nonstationary Time Series for Biological Rhythms Research. Journal of Biological Rhythms, 2017, 32, 187-194.	2.6	34
20	Dynamics of a Multistage Circadian System. Journal of Biological Rhythms, 2006, 21, 314-323.	2.6	25
21	Wavelet-Based Analysis of Circadian Behavioral Rhythms. Methods in Enzymology, 2015, 551, 95-119.	1.0	25
22	The Clock Keeps Ticking: Circadian Rhythms of Free-Ranging Polar Bears. Journal of Biological Rhythms, 2020, 35, 180-194.	2.6	22
23	Impedance Imaging, Inverse Problems, and Harry Potter's Cloak. SIAM Review, 2010, 52, 359-377.	9.5	21
24	Neural correlates of individual differences in circadian behaviour. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150769.	2.6	21
25	Multi-attribute, multi-alternative models of choice: Choice, reaction time, and process tracing. Cognitive Psychology, 2017, 98, 45-72.	2.2	19
26	Recurring circadian disruption alters circadian clock sensitivity to resetting. European Journal of Neuroscience, 2020, 51, 2343-2354.	2.6	19
27	A mathematical model of the Drosophila circadian clock with emphasis on posttranslational mechanisms. Journal of Theoretical Biology, 2007, 248, 48-63.	1.7	18
28	Nonlinear Oscillators at Our Fingertips. American Mathematical Monthly, 2007, 114, 14-28.	0.3	17
29	The bear circadian clock doesnâ€™t â€˜sleepâ€™ during winter dormancy. Frontiers in Zoology, 2016, 13, 42.	2.0	17
30	Bayesian statistical analysis of circadian oscillations in fibroblasts. Journal of Theoretical Biology, 2012, 314, 182-191.	1.7	14
31	Weekend Light Shifts Evoke Persistent Drosophila Circadian Neural Network Desynchrony. Journal of Neuroscience, 2021, 41, 5173-5189.	3.6	9
32	Functional Contributions of Strong and Weak Cellular Oscillators to Synchrony and Light-shifted Phase Dynamics. Journal of Biological Rhythms, 2016, 31, 337-351.	2.6	8
33	Dynamically accelerating cracks part 2: a finite length mode III crack in elastic material. Quarterly of Applied Mathematics, 2001, 59, 601-614.	0.7	8
34	CIRCADA: Shiny Apps for Exploration of Experimental and Synthetic Circadian Time Series with an Educational Emphasis. Journal of Biological Rhythms, 2020, 35, 214-222.	2.6	7
35	Cell-Type-Specific Circadian Bioluminescence Rhythms inDbpReporter Mice. Journal of Biological Rhythms, 2022, 37, 53-77.	2.6	7
36	Methods for Detecting PER2:LUCIFERASE Bioluminescence Rhythms in Freely Moving Mice. Journal of Biological Rhythms, 2022, 37, 78-93.	2.6	7

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37	A general method for solving dynamically accelerating multiple co-linear cracks. International Journal of Fracture, 2001, 111, 1-16.	2.2	6
38	A Method for Solving Dynamically Accelerating Crack Problems in Linear Viscoelasticity. SIAM Journal on Applied Mathematics, 2003, 64, 94-107.	1.8	5
39	Phase Resetting in Duper Hamsters. Journal of Biological Rhythms, 2015, 30, 129-143.	2.6	5
40	An analytical and numerical study of a dynamically accelerating semi-infinite crack in a linear viscoelastic material. International Journal of Fracture, 2004, 127, 101-117.	2.2	4
41	Reconsidering the boundary conditions for a dynamic, transient mode I crack problem. Journal of Mechanics of Materials and Structures, 2008, 3, 1797-1807.	0.6	2
42	A boundary integral method for a dynamic, transient mode I crack problem with viscoelastic cohesive zone. International Journal of Fracture, 2010, 162, 69-76.	2.2	1
43	Computational Analysis of PER2::LUC Imaging Data. Methods in Molecular Biology, 2021, 2130, 295-302.	0.9	1
44	A boundary integral method for a dynamic, transient mode I crack problem with viscoelastic cohesive zone. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 69-76.	0.2	0