Eli Shlizerman

List of Publications by Year
in descending order

38 papers	777 citations	686830 13 h-index	642321 23 g-index
43 all docs	43 docs citations	43 times ranked	693 citing authors

#	Article	IF	Citations
1	Flower discrimination by pollinators in a dynamic chemical environment. Science, 2014, 344, 1515-1518.	6.0	184
2	PREDICT & CLUSTER: Unsupervised Skeleton Based Action Recognition. , 2020, , .		95
3	Audio to Body Dynamics. , 2018, , .		80
4	High-Energy Passive Mode-Locking of Fiber Lasers. International Journal of Optics, 2012, 2012, 1-17.	0.6	38
5	Generalized Master Equation for High-Energy Passive Mode-Locking: The Sinusoidal Ginzburgâ€“Landau Equation. IEEE Journal of Quantum Electronics, 2011, 47, 705-714.	1.0	37
6	Low-dimensional functionality of complex network dynamics: Neurosensory integration in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="italic">Caenorhabditis</mml:mi><mml:mspace width="0.28em" /><mml:mi mathvariant="italic">elegans</mml:mi></mml:mrow></mml:math>connectome. Physical Review E, 2014, 89, 052805.	0.8	37
7	The Proper Orthogonal Decomposition for Dimensionality Reduction in Mode-Locked Lasers and Optical Systems. International Journal of Optics, 2012, 2012, 1-18.	0.6	33
8	Three Types of Chaos in the Forced Nonlinear SchrÃ¶dinger Equation. Physical Review Letters, 2006, 96, 024104.	2.9	30
9	Neural Activity Measures and Their Dynamics. SIAM Journal on Applied Mathematics, 2012, 72, 1260-1291.	0.8	18
10	Hierarchy of bifurcations in the truncated and forced nonlinear SchrÃ¶dinger model. Chaos, 2005, 15, 013107.	1.0	17
11	Data-driven inference of network connectivity for modeling the dynamics of neural codes in the insect antennal lobe. Frontiers in Computational Neuroscience, 2014, 8, 70.	1.2	17
12	Neural Interactome: Interactive Simulation of a Neuronal System. Frontiers in Computational Neuroscience, 2019, 13, 8.	1.2	17
13	Neural Dynamics, Bifurcations, and Firing Rates in a Quadratic Integrate-and-Fire Model with a Recovery Variable. I: Deterministic Behavior. Neural Computation, 2012, 24, 2078-2118.	1.3	16
14	Neural Integration Underlying a Time-Compensated Sun Compass in the Migratory Monarch Butterfly. Cell Reports, 2016, 15, 683-691.	2.9	16
15	Modeling multipulsing transition in ring cavity lasers with proper orthogonal decomposition. Physical Review A, 2010, 82, .	1.0	15
16	The multi-pulsing transition in mode-locked lasers: a low-dimensional approach using waveguide arrays. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2471.	0.9	15
17	Multistability and Long-Timescale Transients Encoded by Network Structure in a Model of C. elegans Connectome Dynamics. Frontiers in Computational Neuroscience, 2017, 11, 53.	1.2	14
18	Fokasâ€™s Unified Transform Method for linear systems. Quarterly of Applied Mathematics, 2017, 76, 463-488.	0.5	14

#	Article	IF	Citations
19	Functional connectomics from neural dynamics: probabilistic graphical models for neuronal network ofCaenorhabditis elegans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170377.	1.8	14
20	Parabolic Resonance: A Route to Hamiltonian Spatiotemporal Chaos. Physical Review Letters, 2009, 102, 033901.	2.9	9
21	Continuation of periodic solutions in the waveguide array mode-locked laser. Physica D: Nonlinear Phenomena, 2011, 240, 1791-1804.	1.3	9
22	Knowledge distillation circumvents nonlinearity for optical convolutional neural networks. Applied Optics, 2022, 61, 2173.	0.9	8
23	The Low Dimensionality of Time-Periodic Standing Waves in Water of Finite and Infinite Depth. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1033-1061.	0.7	7
24	Classification of solutions of the forced periodic nonlinear SchrÃ¶dinger equation. Nonlinearity, 2010, 23, 2183-2218.	0.6	6
25	Statistical Perspective on Functional and Causal Neural Connectomics: A Comparative Study. Frontiers in Systems Neuroscience, 2022, 16, 817962.	1.2	5
26	Clustering and Recognition of Spatiotemporal Features Through Interpretable Embedding of Sequence to Sequence Recurrent Neural Networks. Frontiers in Artificial Intelligence, 2020, 3, 70.	2.0	4
27	Characterizing and suppressing multi-pulsing instabilities in mode-locked lasers. Proceedings of SPIE, 2011, , .	0.8	3
28	Classification of Fixed Point Network Dynamics from Multiple Node Timeseries Data. Frontiers in Neuroinformatics, 2017, 11, 58.	1.3	3
29	Symmetries Constrain Dynamics in a Family of Balanced Neural Networks. Journal of Mathematical Neuroscience, 2017, 7, 10.	2.4	3
30	Symmetries constrain the transition to heterogeneous chaos in balanced networks. BMC Neuroscience, 2015, 16, .	0.8	1
31	Driving the connectome by-wire. Physics of Life Reviews, 2020, 33, 25-27.	1.5	1
32	Analysis of the Multi-Pulsing Instability in Mode-Locked Lasers Using Dynamical Dimension Reduction. , 2012, , .		1
33	Energy enhancement in mode-locked lasers using sinusoidal transmission functions for saturable absorption. , 2011, , .		0
34	Modeling the dynamics of neural codes in the olfaction of the Manduca-sexta moth. BMC Neuroscience, 2012, 13, .	0.8	0
35	Investigating dynamical properties of the Caenorhabditis elegans connectome through full-network simulations. BMC Neuroscience, 2013, 14, .	0.8	0
36	Closing the loop: optimal stimulation of C. elegans neuronal network via adaptive control to exhibit full body movements. BMC Neuroscience, 2015, 16, .	0.8	0

#	Article	IF	Citations
37	Energy Enhancement of Mode-Locked Fiber Lasers with Sinusoidal Transmission. , 2011, , .		0
38	A Reduced Dimensional Model for the Multi-Pulsing Transition in a Waveguide Array Mode-Locked Laser. , 2011, , .		0