Terry Elliott

List of Publications by Year
in descending order

32	308	932766 10	887659 17
papers	citations	h-index	g-index

32	32	32	123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Impact of Sparse Coding on Memory Lifetimes in Simple and Complex Models of Synaptic Plasticity. Biological Cybernetics, 2022, , 1.	0.6	0
2	First Passage Time Memory Lifetimes for Multistate, Filter-Based Synapses. Neural Computation, 2020, 32, 1069-1143.	1.3	2
3	Dynamic Integrative Synaptic Plasticity Explains the Spacing Effect in the Transition from Short- to Long-Term Memory. Neural Computation, 2019, 31, 2212-2251.	1.3	2
4	First Passage Time Memory Lifetimes for Simple, Multistate Synapses: Beyond the Eigenvector Requirement. Neural Computation, 2019, 31, 8-67.	1.3	2
5	Mean First Passage Memory Lifetimes by Reducing Complex Synapses to Simple Synapses. Neural Computation, 2017, 29, 1468-1527.	1.3	4
6	First Passage Time Memory Lifetimes for Simple, Multistate Synapses. Neural Computation, 2017, 29, 3219-3259.	1.3	2
7	The Enhanced Rise and Delayed Fall of Memory in a Model of Synaptic Integration: Extension to Discrete State Synapses. Neural Computation, 2016, 28, 1927-1984.	1.3	7
8	Variations on the Theme of Synaptic Filtering: A Comparison of Integrate-and-Express Models of Synaptic Plasticity for Memory Lifetimes. Neural Computation, 2016, 28, 2393-2460.	1.3	6
9	Memory Nearly on a Spring: A Mean First Passage Time Approach to Memory Lifetimes. Neural Computation, 2014, 26, 1873-1923.	1.3	9
10	Sparseness, Antisparseness and Anything in Between: The Operating Point of a Neuron Determines Its Computational Repertoire. Neural Computation, 2014, 26, 1924-1972.	1.3	1
11	Cross-Talk Induces Bifurcations in Nonlinear Models of Synaptic Plasticity. Neural Computation, 2012, 24, 455-522.	1.3	4
12	The Rise and Fall of Memory in a Model of Synaptic Integration. Neural Computation, 2012, 24, 2604-2654.	1.3	14
13	The Mean Time to Express Synaptic Plasticity in Integrate-and-Express, Stochastic Models of Synaptic Plasticity Induction. Neural Computation, 2011, 23, 124-159.	1.3	7
14	Stability Against Fluctuations: Scaling, Bifurcations, and Spontaneous Symmetry Breaking in Stochastic Models of Synaptic Plasticity. Neural Computation, 2011, 23, 674-734.	1.3	10
15	Discrete States of Synaptic Strength in a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2010, 22, 244-272.	1.3	8
16	A Non-Markovian Random Walk Underlies a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2010, 22, 1180-1230.	1.3	7
17	Taming Fluctuations in a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2009, 21, 3363-3407.	1.3	11
18	Adaptation in multisensory neurons: Impact on cross-modal enhancement. Network: Computation in Neural Systems, 2009, 20, 1-31.	2.2	1

#	Article	IF	Citations
19	An invariance principle for maintaining the operating point of a neuron. Network: Computation in Neural Systems, 2008, 19, 213-235.	2.2	4
20	Temporal Dynamics of Rate-Based Synaptic Plasticity Rules in a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2008, 20, 2253-2307.	1.3	17
21	Multispike Interactions in a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2007, 19, 1362-1399.	1.3	13
22	Intrinsic versus extrinsic influences in the development of neuronal maps. Biological Cybernetics, 2007, 96, 129-143.	0.6	0
23	Stable Competitive Dynamics Emerge from Multispike Interactions in a Stochastic Model of Spike-Timing-Dependent Plasticity. Neural Computation, 2006, 18, 2414-2464.	1.3	24
24	Synaptic and Temporal Ensemble Interpretation of Spike-Timing-Dependent Plasticity. Neural Computation, 2005, 17, 2316-2336.	1.3	24
25	An Analysis of Synaptic Normalization in a General Class of Hebbian Models. Neural Computation, 2003, 15, 937-963.	1.3	18
26	Developmental robotics: manifesto and application. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 2187-2206.	1.6	17
27	Coupling an aVLSI Neuromorphic Vision Chip to a Neurotrophic Model of Synaptic Plasticity: The Development of Topography. Neural Computation, 2002, 14, 2353-2370.	1.3	6
28	From synaptic errors to thalamocortical circuitry. Trends in Cognitive Sciences, 2002, 6, 147-148.	4.0	2
29	A spin-glass-like Lyapunov function for a neurotrophic model of neuronal development. Biological Cybernetics, 2002, 86, 473-481.	0.6	2
30	D'Arcy Wentworth Thompson, interindividual variation, and postnatal neuronal growth. Behavioral and Brain Sciences, 2001, 24, 284-284.	0.4	2
31	A Neurotrophic Model of the Development of the Retinogeniculocortical Pathway Induced by Spontaneous Retinal Waves. Journal of Neuroscience, 1999, 19, 7951-7970.	1.7	40
32	Competition for Neurotrophic Factors: Ocular Dominance Columns. Journal of Neuroscience, 1998, 18, 5850-5858.	1.7	42