James N Maclaurin

List of Publications by Year
in descending order

19 papers	130 citations	1478505 6 h-index	1281871 11 g-index
19 all docs	19 docs citations	19 times ranked	105 citing authors

#	Article	IF	Citations
1	An emergent autonomous flow for mean-field spin glasses. Probability Theory and Related Fields, 2021, 180, 365-438.	1.8	0
2	Synchronization in Stochastic Biochemical Oscillators Subject to Common Multiplicative Extrinsic Noise. SIAM Journal on Applied Dynamical Systems, 2021, 20, 1253-1276.	1.6	0
3	Phase Reduction of Stochastic Biochemical Oscillators. SIAM Journal on Applied Dynamical Systems, 2020, 19, 151-180.	1.6	3
4	Wandering bumps in a stochastic neural field: A variational approach. Physica D: Nonlinear Phenomena, 2020, 406, 132403.	2.8	6
5	Mean field dynamics of a Wilson–Cowan neuronal network with nonlinear coupling term. Stochastics and Dynamics, 2018, 18, 1850046.	1.2	1
6	On uniform propagation of chaos. Stochastics, 2018, 90, 49-60.	1.1	2
7	Stochastic Hybrid Systems in Cellular Neuroscience. Journal of Mathematical Neuroscience, 2018, 8, 12.	2.4	10
8	Synchronization of stochastic hybrid oscillators driven by a common switching environment. Chaos, 2018, 28, 123123.	2.5	5
9	A Variational Method for Analyzing Stochastic Limit Cycle Oscillators. SIAM Journal on Applied Dynamical Systems, 2018, 17, 2205-2233.	1.6	19
10	A variational method for analyzing limit cycle oscillations in stochastic hybrid systems. Chaos, 2018, 28, 063105.	2.5	6
11	A General Framework for Stochastic Traveling Waves and Patterns, with Application to Neural Field Equations. SIAM Journal on Applied Dynamical Systems, 2016, 15, 195-234.	1.6	25
12	Asymptotic Description of Neural Networks with Correlated Synaptic Weights. Entropy, 2015, 17, 4701-4743.	2.2	11
13	A Large Deviation Principle and an Expression of the Rate Function for a Discrete Stationary Gaussian Process. Entropy, 2014, 16, 6722-6738.	2.2	0
14	A Representation of the Relative Entropy with Respect to a Diffusion Process in Terms of Its Infinitesimal Generator. Entropy, 2014, 16, 6705-6721.	2.2	1
15	Asymptotic description of stochastic neural networks. I. Existence of a large deviation principle. Comptes Rendus Mathematique, 2014, 352, 841-846.	0.3	6
16	Asymptotic description of stochastic neural networks. II. Characterization of the limit law. Comptes Rendus Mathematique, 2014, 352, 847-852.	0.3	2
17	A large deviation principle for networks of rate neurons with correlated synaptic weights. BMC Neuroscience, 2013, 14, .	1.9	4
18	The study of asymptotically fine wrinkling in nonlinear elasticity using a boundary layer analysis. Journal of the Mechanics and Physics of Solids, 2013, 61, 1691-1711.	4.8	2

#	Article	IF	Citations
19	The buckling of capillaries in solid tumours. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 4123-4145.	2.1	27