

Alexander G Dimitrov

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

388
citations

1039406

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h-index

839053

18
g-index

39
all docs

39
docs citations

39
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Information theory in neuroscience. <i>Journal of Computational Neuroscience</i> , 2011, 30, 1-5.	0.6	95
2	Dejittered Spike-Conditioned Stimulus Waveforms Yield Improved Estimates of Neuronal Feature Selectivity and Spike-Timing Precision of Sensory Interneurons. <i>Journal of Neuroscience</i> , 2005, 25, 5323-5332.	1.7	48
3	Evolution of Teleost Fish Retroviruses: Characterization of New Retroviruses with Cellular Genes. <i>Journal of Virology</i> , 2009, 83, 10152-10162.	1.5	25
4	Transient Inability to Distinguish Between Faces: Electrophysiologic Studies. <i>Journal of Clinical Neurophysiology</i> , 2003, 20, 102-110.	0.9	24
5	Temporal Encoding in a Nervous System. <i>PLoS Computational Biology</i> , 2011, 7, e1002041.	1.5	24
6	Analysis of neural coding through quantization with an information-based distortion measure. , 0, .		23
7	Effects of stimulus transformations on estimates of sensory neuron selectivity. <i>Journal of Computational Neuroscience</i> , 2006, 20, 265-283.	0.6	22
8	Spatial Decorrelation in Orientation-Selective Cortical Cells. <i>Neural Computation</i> , 1998, 10, 1779-1795.	1.3	17
9	The Mathematical Structure of Information Bottleneck Methods. <i>Entropy</i> , 2012, 14, 456-479.	1.1	14
10	Neural coding and decoding: communication channels and quantization. , 0, .		12
11	Natural time scales for neural encoding. <i>Neurocomputing</i> , 2000, 32-33, 1027-1034.	3.5	9
12	Symmetry Breaking in Soft Clustering Decoding of Neural Codes. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 901-927.	1.5	8
13	Analysis of neural coding through quantization with an information-based distortion measure. <i>Network: Computation in Neural Systems</i> , 2003, 14, 151-76.	2.2	7
14	Non-uniform quantization of neural spike sequences through an information distortion measure. <i>Neurocomputing</i> , 2001, 38-40, 175-181.	3.5	6
15	Spike pattern-based coding schemes in the cricket cercal sensory system. <i>Neurocomputing</i> , 2002, 44-46, 373-379.	3.5	6
16	Structural and biophysical mechanisms underlying dynamic sensitivity of primary sensory interneurons in the cricket cercal sensory system. <i>Neurocomputing</i> , 2003, 52-54, 45-52.	3.5	6
17	Spatial and temporal jitter distort estimated functional properties of visual sensory neurons. <i>Journal of Computational Neuroscience</i> , 2009, 27, 309-319.	0.6	6
18	Design of a microfluidic device with a non-traditional flow profile for on-chip damage to zebrafish sensory cells. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 017001.	1.5	6

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19	Towards a Dynamic Clamp for Neurochemical Modalities. <i>Sensors</i> , 2015, 15, 10465-10480.	2.1	6
20	Characterizing the fine structure of a neural sensory code through information distortion. <i>Journal of Computational Neuroscience</i> , 2011, 30, 163-179.	0.6	4
21	Inhibition does not affect the timing code for vocalizations in the mouse auditory midbrain. <i>Frontiers in Physiology</i> , 2014, 5, 140.	1.3	4
22	Characterization of and compensation for the nonstationarity of spike shapes during physiological recordings. <i>Neurocomputing</i> , 2001, 38-40, 1695-1701.	3.5	3
23	Finding neural codes using random projections. <i>Neurocomputing</i> , 2004, 58-60, 19-25.	3.5	3
24	Analyzing sensory systems with the information distortion function. , 2000, , 251-62.		3
25	Spike sorting the other way. <i>Neurocomputing</i> , 2003, 52-54, 741-745.	3.5	1
26	Pings the Body Electric (and Means It Too). Focus on "Interval Coding. I. Burst Interspike Intervals as Indicators of Stimulus Intensity" and "Interval Coding. II. Dendrite-Dependent Mechanisms". <i>Journal of Neurophysiology</i> , 2007, 97, 2577-2578.	0.9	1
27	Effects of stimulus transformations on estimated functional properties of mechanosensory neurons. <i>Neurocomputing</i> , 2007, 70, 1772-1776.	3.5	1
28	Guest Editorial Biological Applications of Information Theory in Honor of Claude Shannon's Centennial "Part 1. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2016, 2, 1-4.	1.4	1
29	Derivation of Natural Stimulus Feature Set Using a Data-Driven Model. <i>Lecture Notes in Computer Science</i> , 2003, , 337-345.	1.0	1
30	Dejittering of neural responses by use of their metric properties. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	0
31	Design of a Microfluidic Device to Induce Noise Damage in Hair Cells of the Zebrafish Lateral Line. , 2012, , .		0
32	Characterization of local invariances in the ascending ferret auditory system. <i>BMC Neuroscience</i> , 2014, 15, .	0.8	0
33	Invariance to frequency and time dilation along the ascending ferret auditory system. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0
34	Information Theory: Overview. , 2015, , 44-46.		0
35	Guest Editorial Biological Applications of Information Theory in Honor of Claude Shannon's Centennial "Part II. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2016, 2, 117-119.	1.4	0
36	Edge Detectors and Texture Detectors Differ in Their Lateral Connectivity. , 1998, , 355-360.		0

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37	Information Theory: Overview. , 2022, , 58-60.		0