

Stephen V David

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

6,266
citations

147801

31
h-index

189892

50
g-index

66
all docs

66
docs citations

66
times ranked

5503
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial filter selection for EEG-based communication. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 103, 386-394.	0.3	788
2	Cortical Membrane Potential Signature of Optimal States for Sensory Signal Detection. <i>Neuron</i> , 2015, 87, 179-192.	8.1	621
3	Reconstructing Speech from Human Auditory Cortex. <i>PLoS Biology</i> , 2012, 10, e1001251.	5.6	486
4	Auditory attentionâ€”focusing the searchlight on sound. <i>Current Opinion in Neurobiology</i> , 2007, 17, 437-455.	4.2	418
5	Natural Stimulus Statistics Alter the Receptive Field Structure of V1 Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 6991-7006.	3.6	317
6	COMPLETE FUNCTIONAL CHARACTERIZATION OF SENSORY NEURONS BY SYSTEM IDENTIFICATION. <i>Annual Review of Neuroscience</i> , 2006, 29, 477-505.	10.7	290
7	Task reward structure shapes rapid receptive field plasticity in auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2144-2149.	7.1	244
8	Large-scale topology and the default mode network in the mouse connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18745-18750.	7.1	228
9	Adaptive, behaviorally gated, persistent encoding of task-relevant auditory information in ferret frontal cortex. <i>Nature Neuroscience</i> , 2010, 13, 1011-1019.	14.8	214
10	Task Difficulty and Performance Induce Diverse Adaptive Patterns in Gain and Shape of Primary Auditory Cortical Receptive Fields. <i>Neuron</i> , 2009, 61, 467-480.	8.1	195
11	Phoneme representation and classification in primary auditory cortex. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 899-909.	1.1	175
12	Does attention play a role in dynamic receptive field adaptation to changing acoustic salience in A1?. <i>Hearing Research</i> , 2007, 229, 186-203.	2.0	168
13	Estimating sparse spectro-temporal receptive fields with natural stimuli. <i>Network: Computation in Neural Systems</i> , 2007, 18, 191-212.	3.6	160
14	Attention to Stimulus Features Shifts Spectral Tuning of V4 Neurons during Natural Vision. <i>Neuron</i> , 2008, 59, 509-521.	8.1	154
15	Influence of Context and Behavior on Stimulus Reconstruction From Neural Activity in Primary Auditory Cortex. <i>Journal of Neurophysiology</i> , 2009, 102, 3329-3339.	1.8	149
16	Rapid Synaptic Depression Explains Nonlinear Modulation of Spectro-Temporal Tuning in Primary Auditory Cortex by Natural Stimuli. <i>Journal of Neuroscience</i> , 2009, 29, 3374-3386.	3.6	141
17	Emergent Selectivity for Task-Relevant Stimuli in Higher-Order Auditory Cortex. <i>Neuron</i> , 2014, 82, 486-499.	8.1	134
18	Predicting neuronal responses during natural vision. <i>Network: Computation in Neural Systems</i> , 2005, 16, 239-260.	3.6	125

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19	Mechanisms of noise robust representation of speech in primary auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6792-6797.	7.1	116
20	Spectral Receptive Field Properties Explain Shape Selectivity in Area V4. Journal of Neurophysiology, 2006, 96, 3492-3505.	1.8	112
21	Modeling low-frequency fluctuation and hemodynamic response timecourse in event-related fMRI. Human Brain Mapping, 2008, 29, 142-156.	3.6	73
22	Parametric reverse correlation reveals spatial linearity of retinotopic human V1 BOLD response. NeuroImage, 2004, 23, 233-241.	4.2	72
23	Rapid Task-Related Plasticity of Spectrotemporal Receptive Fields in the Auditory Midbrain. Journal of Neuroscience, 2015, 35, 13090-13102.	3.6	66
24	Nonlinear V1 responses to natural scenes revealed by neural network analysis. Neural Networks, 2004, 17, 663-679.	5.9	65
25	Integration over Multiple Timescales in Primary Auditory Cortex. Journal of Neuroscience, 2013, 33, 19154-19166.	3.6	64
26	Intellectual synthesis in mentorship determines success in academic careers. Nature Communications, 2018, 9, 4840.	12.8	62
27	Go/No-Go task engagement enhances population representation of target stimuli in primary auditory cortex. Nature Communications, 2018, 9, 2529.	12.8	59
28	Functional Connectivity and Tuning Curves in Populations of Simultaneously Recorded Neurons. PLoS Computational Biology, 2012, 8, e1002775.	3.2	58
29	State-dependent encoding of sound and behavioral meaning in a tertiary region of the ferret auditory cortex. Nature Neuroscience, 2019, 22, 447-459.	14.8	56
30	The Essential Complexity of Auditory Receptive Fields. PLoS Computational Biology, 2015, 11, e1004628.	3.2	44
31	Neurotree: A Collaborative, Graphical Database of the Academic Genealogy of Neuroscience. PLoS ONE, 2012, 7, e46608.	2.5	42
32	Focal Suppression of Distractor Sounds by Selective Attention in Auditory Cortex. Cerebral Cortex, 2018, 28, 323-339.	2.9	41
33	A quantitative analysis of information about past and present stimuli encoded by spikes of A1 neurons. Journal of Neurophysiology, 2012, 108, 1366-1380.	1.8	39
34	Incorporating behavioral and sensory context into spectro-temporal models of auditory encoding. Hearing Research, 2018, 360, 107-123.	2.0	28
35	Inferring the role of inhibition in auditory processing of complex natural stimuli. Journal of Neurophysiology, 2012, 107, 3296-3307.	1.8	26
36	Representation of Phonemes in Primary Auditory Cortex: How the Brain Analyzes Speech. , 2007, , .		22

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37	Pupil-associated states modulate excitability but not stimulus selectivity in primary auditory cortex. <i>Journal of Neurophysiology</i> , 2020, 123, 191-208.	1.8	22
38	Decoupling Action Potential Bias from Cortical Local Field Potentials. <i>Computational Intelligence and Neuroscience</i> , 2010, 2010, 1-12.	1.7	21
39	Dissociation of task engagement and arousal effects in auditory cortex and midbrain. <i>ELife</i> , 2021, 10, .	6.0	19
40	Spectral tuning of adaptation supports coding of sensory context in auditory cortex. <i>PLoS Computational Biology</i> , 2019, 15, e1007430.	3.2	17
41	Implicit Memory for Complex Sounds in Higher Auditory Cortex of the Ferret. <i>Journal of Neuroscience</i> , 2018, 38, 9955-9966.	3.6	16
42	Task Engagement Improves Neural Discriminability in the Auditory Midbrain of the Marmoset Monkey. <i>Journal of Neuroscience</i> , 2021, 41, 284-297.	3.6	16
43	Neuronal selectivity to complex vocalization features emerges in the superficial layers of primary auditory cortex. <i>PLoS Biology</i> , 2021, 19, e3001299.	5.6	15
44	Optimizing Auditory Brainstem Response Acquisition Using Interleaved Frequencies. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2020, 21, 225-242.	1.8	12
45	Short-Term Effects of Vagus Nerve Stimulation on Learning and Evoked Activity in Auditory Cortex. <i>ENeuro</i> , 2021, 8, ENEURO.0522-20.2021.	1.9	11
46	Complementary Effects of Adaptation and Gain Control on Sound Encoding in Primary Auditory Cortex. <i>ENeuro</i> , 2020, 7, ENEURO.0205-20.2020.	1.9	11
47	Encoding of natural sounds by variance of the cortical local field potential. <i>Journal of Neurophysiology</i> , 2016, 115, 2389-2398.	1.8	8
48	Attention and Dynamic, Task-Related Receptive Field Plasticity in Adult Auditory Cortex. <i>Springer Handbook of Auditory Research</i> , 2013, , 251-291.	0.7	8
49	Streaming of Repeated Noise in Primary and Secondary Fields of Auditory Cortex. <i>Journal of Neuroscience</i> , 2020, 40, 3783-3798.	3.6	6
50	Neurons couple up to make decisions. <i>Nature</i> , 2017, 548, 35-36.	27.8	2
51	Correlates of Auditory Attention and Task Performance in Primary Auditory and Prefrontal Cortex. , 2010, , 555-570.		1
52	Invariance to frequency and time dilation along the ascending ferret auditory system. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0