

# Stephen V David

## List of Publications by Year in descending order

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52  
papers

6,266  
citations

168829

31  
h-index

214428

50  
g-index

66  
all docs

66  
docs citations

66  
times ranked

6338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Task Engagement Improves Neural Discriminability in the Auditory Midbrain of the Marmoset Monkey. <i>Journal of Neuroscience</i> , 2021, 41, 284-297.	1.7	16
2	Dissociation of task engagement and arousal effects in auditory cortex and midbrain. <i>ELife</i> , 2021, 10, .	2.8	19
3	Short-Term Effects of Vagus Nerve Stimulation on Learning and Evoked Activity in Auditory Cortex. <i>ENeuro</i> , 2021, 8, ENEURO.0522-20.2021.	0.9	11
4	Neuronal selectivity to complex vocalization features emerges in the superficial layers of primary auditory cortex. <i>PLoS Biology</i> , 2021, 19, e3001299.	2.6	15
5	Pupil-associated states modulate excitability but not stimulus selectivity in primary auditory cortex. <i>Journal of Neurophysiology</i> , 2020, 123, 191-208.	0.9	22
6	Optimizing Auditory Brainstem Response Acquisition Using Interleaved Frequencies. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2020, 21, 225-242.	0.9	12
7	Streaming of Repeated Noise in Primary and Secondary Fields of Auditory Cortex. <i>Journal of Neuroscience</i> , 2020, 40, 3783-3798.	1.7	6
8	Complementary Effects of Adaptation and Gain Control on Sound Encoding in Primary Auditory Cortex. <i>ENeuro</i> , 2020, 7, ENEURO.0205-20.2020.	0.9	11
9	Spectral tuning of adaptation supports coding of sensory context in auditory cortex. <i>PLoS Computational Biology</i> , 2019, 15, e1007430.	1.5	17
10	State-dependent encoding of sound and behavioral meaning in a tertiary region of the ferret auditory cortex. <i>Nature Neuroscience</i> , 2019, 22, 447-459.	7.1	56
11	Incorporating behavioral and sensory context into spectro-temporal models of auditory encoding. <i>Hearing Research</i> , 2018, 360, 107-123.	0.9	28
12	Intellectual synthesis in mentorship determines success in academic careers. <i>Nature Communications</i> , 2018, 9, 4840.	5.8	62
13	Implicit Memory for Complex Sounds in Higher Auditory Cortex of the Ferret. <i>Journal of Neuroscience</i> , 2018, 38, 9955-9966.	1.7	16
14	Focal Suppression of Distractor Sounds by Selective Attention in Auditory Cortex. <i>Cerebral Cortex</i> , 2018, 28, 323-339.	1.6	41
15	Go/No-Go task engagement enhances population representation of target stimuli in primary auditory cortex. <i>Nature Communications</i> , 2018, 9, 2529.	5.8	59
16	Neurons couple up to make decisions. <i>Nature</i> , 2017, 548, 35-36.	13.7	2
17	Encoding of natural sounds by variance of the cortical local field potential. <i>Journal of Neurophysiology</i> , 2016, 115, 2389-2398.	0.9	8
18	Invariance to frequency and time dilation along the ascending ferret auditory system. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0

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19	The Essential Complexity of Auditory Receptive Fields. <i>PLoS Computational Biology</i> , 2015, 11, e1004628.	1.5	44
20	Cortical Membrane Potential Signature of Optimal States for Sensory Signal Detection. <i>Neuron</i> , 2015, 87, 179-192.	3.8	621
21	Rapid Task-Related Plasticity of Spectrotemporal Receptive Fields in the Auditory Midbrain. <i>Journal of Neuroscience</i> , 2015, 35, 13090-13102.	1.7	66
22	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.	3.3	228
23	Mechanisms of noise robust representation of speech in primary auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6792-6797.	3.3	116
24	Emergent Selectivity for Task-Relevant Stimuli in Higher-Order Auditory Cortex. <i>Neuron</i> , 2014, 82, 486-499.	3.8	134
25	Integration over Multiple Timescales in Primary Auditory Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 19154-19166.	1.7	64
26	Attention and Dynamic, Task-Related Receptive Field Plasticity in Adult Auditory Cortex. <i>Springer Handbook of Auditory Research</i> , 2013, , 251-291.	0.3	8
27	Inferring the role of inhibition in auditory processing of complex natural stimuli. <i>Journal of Neurophysiology</i> , 2012, 107, 3296-3307.	0.9	26
28	Functional Connectivity and Tuning Curves in Populations of Simultaneously Recorded Neurons. <i>PLoS Computational Biology</i> , 2012, 8, e1002775.	1.5	58
29	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.	3.3	244
30	A quantitative analysis of information about past and present stimuli encoded by spikes of A1 neurons. <i>Journal of Neurophysiology</i> , 2012, 108, 1366-1380.	0.9	39
31	Neurotree: A Collaborative, Graphical Database of the Academic Genealogy of Neuroscience. <i>PLoS ONE</i> , 2012, 7, e46608.	1.1	42
32	Reconstructing Speech from Human Auditory Cortex. <i>PLoS Biology</i> , 2012, 10, e1001251.	2.6	486
33	Adaptive, behaviorally gated, persistent encoding of task-relevant auditory information in ferret frontal cortex. <i>Nature Neuroscience</i> , 2010, 13, 1011-1019.	7.1	214
34	Decoupling Action Potential Bias from Cortical Local Field Potentials. <i>Computational Intelligence and Neuroscience</i> , 2010, 2010, 1-12.	1.1	21
35	Correlates of Auditory Attention and Task Performance in Primary Auditory and Prefrontal Cortex. , 2010, , 555-570.		1
36	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.	1.7	141

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37	Influence of Context and Behavior on Stimulus Reconstruction From Neural Activity in Primary Auditory Cortex. <i>Journal of Neurophysiology</i> , 2009, 102, 3329-3339.	0.9	149
38	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.	3.8	195
39	Modeling low-frequency fluctuation and hemodynamic response timecourse in event-related fMRI. <i>Human Brain Mapping</i> , 2008, 29, 142-156.	1.9	73
40	Phoneme representation and classification in primary auditory cortex. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 899-909.	0.5	175
41	Attention to Stimulus Features Shifts Spectral Tuning of V4 Neurons during Natural Vision. <i>Neuron</i> , 2008, 59, 509-521.	3.8	154
42	Representation of Phonemes in Primary Auditory Cortex: How the Brain Analyzes Speech. , 2007, , .		22
43	Estimating sparse spectro-temporal receptive fields with natural stimuli. <i>Network: Computation in Neural Systems</i> , 2007, 18, 191-212.	2.2	160
44	Does attention play a role in dynamic receptive field adaptation to changing acoustic salience in A1?. <i>Hearing Research</i> , 2007, 229, 186-203.	0.9	168
45	Auditory attentionâ€”focusing the searchlight on sound. <i>Current Opinion in Neurobiology</i> , 2007, 17, 437-455.	2.0	418
46	Spectral Receptive Field Properties Explain Shape Selectivity in Area V4. <i>Journal of Neurophysiology</i> , 2006, 96, 3492-3505.	0.9	112
47	COMPLETE FUNCTIONAL CHARACTERIZATION OF SENSORY NEURONS BY SYSTEM IDENTIFICATION. <i>Annual Review of Neuroscience</i> , 2006, 29, 477-505.	5.0	290
48	Predicting neuronal responses during natural vision. <i>Network: Computation in Neural Systems</i> , 2005, 16, 239-260.	2.2	125
49	Nonlinear V1 responses to natural scenes revealed by neural network analysis. <i>Neural Networks</i> , 2004, 17, 663-679.	3.3	65
50	Natural Stimulus Statistics Alter the Receptive Field Structure of V1 Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 6991-7006.	1.7	317
51	Parametric reverse correlation reveals spatial linearity of retinotopic human V1 BOLD response. <i>NeuroImage</i> , 2004, 23, 233-241.	2.1	72
52	Spatial filter selection for EEG-based communication. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 103, 386-394.	0.3	788