Steven M Chase

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Neural constraints on learning. Nature, 2014, 512, 423-426. | 27.8 | 535 |
| 2 | Functional network reorganization during learning in a brain-computer interface paradigm. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19486-19491. | 7.1 | 248 |
| 3 | Learning by neural reassociation. Nature Neuroscience, 2018, 21, 607-616. | 14.8 | 170 |
| 4 | Control of a brain–computer interface without spike sorting. Journal of Neural Engineering, 2009, 6, 055004. | 3.5 | 148 |
| 5 | New neural activity patterns emerge with long-term learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15210-15215. | 7.1 | 145 |
| 6 | Comparison of brain–computer interface decoding algorithms in open-loop and closed-loop control. Journal of Computational Neuroscience, 2010, 29, 73-87. | 1.0 | 127 |
| 7 | Stabilization of a brain–computer interface via the alignment of low-dimensional spaces of neural activity. Nature Biomedical Engineering, 2020, 4, 672-685. | 22.5 | 118 |
| 8 | Comprehensive chronic laminar single-unit, multi-unit, and local field potential recording performance with planar single shank electrode arrays. Journal of Neuroscience Methods, 2015, 242, 15-40. | 2.5 | 116 |
| 9 | Bias, optimal linear estimation, and the differences between open-loop simulation and closed-loop performance of spiking-based brain–computer interface algorithms. Neural Networks, 2009, 22, 1203-1213. | 5.9 | 114 |
| 10 | Behavioral and neural correlates of visuomotor adaptation observed through a brain-computer interface in primary motor cortex. Journal of Neurophysiology, 2012, 108, 624-644. | 1.8 | 106 |
| 11 | A Reward-Modulated Hebbian Learning Rule Can Explain Experimentally Observed Network Reorganization in a Brain Control Task. Journal of Neuroscience, 2010, 30, 8400-8410. | 3.6 | 104 |
| 12 | Intracortical recording stability in human brain–computer interface users. Journal of Neural Engineering, 2018, 15, 046016. | 3.5 | 100 |
| 13 | Brain–computer interfaces for dissecting cognitive processes underlying sensorimotor control. Current Opinion in Neurobiology, 2016, 37, 53-58. | 4.2 | 82 |
| 14 | Constraints on neural redundancy. ELife, 2018, 7, . | 6.0 | 56 |
| 15 | Single-unit activity, threshold crossings, and local field potentials in motor cortex differentially encode reach kinematics. Journal of Neurophysiology, 2015, 114, 1500-1512. | 1.8 | 53 |
| 16 | Motor cortical control of movement speed with implications for brain-machine interface control. Journal of Neurophysiology, 2014, 112, 411-429. | 1.8 | 52 |
| 17 | Cues for Sound Localization Are Encoded in Multiple Aspects of Spike Trains in the Inferior Colliculus. Journal of Neurophysiology, 2008, 99, 1672-1682. | 1.8 | 43 |
| 18 | Internal models for interpreting neural population activity during sensorimotor control. ELife, 2015, 4, . | 6.0 | 41 |

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|----|--|------|-----------|
| 19 | Distinct types of neural reorganization during long-term learning. Journal of Neurophysiology, 2019, 121, 1329-1341. | 1.8 | 40 |
| 20 | Learning is shaped by abrupt changes in neural engagement. Nature Neuroscience, 2021, 24, 727-736. | 14.8 | 39 |
| 21 | Extracellular voltage threshold settings can be tuned for optimal encoding of movement and stimulus parameters. Journal of Neural Engineering, 2016, 13, 036009. | 3.5 | 30 |
| 22 | Feature selectivity is stable in primary visual cortex across a range of spatial frequencies. Scientific Reports, 2018, 8, 15288. | 3.3 | 30 |
| 23 | Latent Inputs Improve Estimates of Neural Encoding in Motor Cortex. Journal of Neuroscience, 2010, 30, 13873-13882. | 3.6 | 28 |
| 24 | Workshops of the Sixth International Brain–Computer Interface Meeting: brain–computer interfaces past, present, and future. Brain-Computer Interfaces, 2017, 4, 3-36. | 1.8 | 24 |
| 25 | Population activity structure of excitatory and inhibitory neurons. PLoS ONE, 2017, 12, e0181773. | 2.5 | 24 |
| 26 | Dynamic range adaptation in primary motor cortical populations. ELife, 2017, 6, . | 6.0 | 22 |
| 27 | Internal models engaged by brain-computer interface control. , 2012, 2012, 1327-30. | | 19 |
| 28 | How learning unfolds in the brain: toward an optimization view. Neuron, 2021, 109, 3720-3735. | 8.1 | 19 |
| 29 | Inference from populations: going beyond models. Progress in Brain Research, 2011, 192, 103-112. | 1.4 | 15 |
| 30 | Recasting brain-machine interface design from a physical control system perspective. Journal of Computational Neuroscience, 2015, 39, 107-118. | 1.0 | 12 |
| 31 | Development of Natural Scene Representation in Primary Visual Cortex Requires Early Postnatal Experience. Current Biology, 2021, 31, 369-380.e5. | 3.9 | 9 |
| 32 | Direction and speed tuning of motor-cortex multi-unit activity and local field potentials during reaching movements. , 2013, 2013, 299-302. | | 8 |
| 33 | Learning an Internal Dynamics Model from Control Demonstration. JMLR Workshop and Conference Proceedings, 2013, , 606-614. | 1.4 | 8 |
| 34 | Monkeys exhibit a paradoxical decrease in performance in high-stakes scenarios. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 7 |
| 35 | Intracortical Brain–Machine Interfaces. , 2020, , 185-221. | | 5 |
| 36 | Existing function in primary visual cortex is not perturbed by new skill acquisition of a non-matched sensory task. Nature Communications, 2022, 13, . | 12.8 | 5 |

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|----|--|------|-----------|
| 37 | Distinct Kinematic Adjustments over Multiple Timescales Accompany Locomotor Skill Development in Mice. Neuroscience, 2021, 466, 260-272. | 2.3 | 2 |
| 38 | Functional network reorganization in motor cortex can be explained by reward-modulated Hebbian learning. Advances in Neural Information Processing Systems, 2009, 2009, 1105-1113. | 2.8 | 2 |
| 39 | Shedding light on learning. Nature Neuroscience, 2014, 17, 746-747. | 14.8 | 1 |
| 40 | A control-theoretic approach to brain-computer interface design. , 2016, , . | | 1 |
| 41 | Neural manifolds: from basic science to practical improvements in brain-computer intefaces. , 2019, , . | | 1 |