

# Stephen G Lisberger

## List of Publications by Year in descending order

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73  
papers

5,926  
citations

94381

37  
h-index

85498

71  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural structure of a sensory decoder for motor control. <i>Nature Communications</i> , 2022, 13, 1829.	5.8	5
2	The Rules of Cerebellar Learning: Around the Ito Hypothesis. <i>Neuroscience</i> , 2021, 462, 175-190.	1.1	23
3	Diversity and dynamism in the cerebellum. <i>Nature Neuroscience</i> , 2021, 24, 160-167.	7.1	114
4	Evaluation and resolution of many challenges of neural spike sorting: a new sorter. <i>Journal of Neurophysiology</i> , 2021, 126, 2065-2090.	0.9	9
5	The Neural Basis for Response Latency in a Sensory-Motor Behavior. <i>Cerebral Cortex</i> , 2020, 30, 3055-3073.	1.6	12
6	Different mechanisms for modulation of the initiation and steady-state of smooth pursuit eye movements. <i>Journal of Neurophysiology</i> , 2020, 123, 1265-1276.	0.9	12
7	Mechanisms that allow cortical preparatory activity without inappropriate movement. <i>ELife</i> , 2020, 9, .	2.8	15
8	Principles of operation of a cerebellar learning circuit. <i>ELife</i> , 2020, 9, .	2.8	19
9	Neural implementation of Bayesian inference in a sensorimotor behavior. <i>Nature Neuroscience</i> , 2018, 21, 1442-1451.	7.1	73
10	Multiple components in direction learning in smooth pursuit eye movements of monkeys. <i>Journal of Neurophysiology</i> , 2018, 120, 2020-2035.	0.9	12
11	Responses of Purkinje cells in the oculomotor vermis of monkeys during smooth pursuit eye movements and saccades: comparison with floccular complex. <i>Journal of Neurophysiology</i> , 2017, 118, 986-1001.	0.9	9
12	Control of the strength of visual-motor transmission as the mechanism of rapid adaptation of priors for Bayesian inference in smooth pursuit eye movements. <i>Journal of Neurophysiology</i> , 2017, 118, 1173-1189.	0.9	37
13	Modulation of Complex-Spike Duration and Probability during Cerebellar Motor Learning in Visually Guided Smooth-Pursuit Eye Movements of Monkeys. <i>ENeuro</i> , 2017, 4, ENEURO.01115-17.2017.	0.9	15
14	Signal, Noise, and Variation in Neural and Sensory-Motor Latency. <i>Neuron</i> , 2016, 90, 165-176.	3.8	43
15	Visual Guidance of Smooth Pursuit Eye Movements. <i>Annual Review of Vision Science</i> , 2015, 1, 447-468.	2.3	68
16	Interactions between target location and reward size modulate the rate of microsaccades in monkeys. <i>Journal of Neurophysiology</i> , 2015, 114, 2616-2624.	0.9	8
17	How and why neural and motor variation are related. <i>Current Opinion in Neurobiology</i> , 2015, 33, 110-116.	2.0	31
18	Role of Plasticity at Different Sites across the Time Course of Cerebellar Motor Learning. <i>Journal of Neuroscience</i> , 2014, 34, 7077-7090.	1.7	59

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19	Purkinje-cell plasticity and cerebellar motor learning are graded by complex-spike duration. <i>Nature</i> , 2014, 510, 529-532.	13.7	189
20	A framework for using signal, noise, and variation to determine whether the brain controls movement synergies or single muscles. <i>Journal of Neurophysiology</i> , 2014, 111, 733-745.	0.9	23
21	The Neural Code for Motor Control in the Cerebellum and Oculomotor Brainstem. <i>ENeuro</i> , 2014, 1, ENEURO.0004-14.2014.	0.9	17
22	Gamma Synchrony Predicts Neuron-Neuron Correlations and Correlations with Motor Behavior in Extrastriate Visual Area MT. <i>Journal of Neuroscience</i> , 2013, 33, 19677-19688.	1.7	29
23	Sensory Population Decoding for Visually Guided Movements. <i>Neuron</i> , 2013, 79, 167-179.	3.8	47
24	Diversity of Neural Responses in the Brainstem during Smooth Pursuit Eye Movements Constrains the Circuit Mechanisms of Neural Integration. <i>Journal of Neuroscience</i> , 2013, 33, 6633-6647.	1.7	36
25	Control of the Gain of Visual-Motor Transmission Occurs in Visual Coordinates for Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2013, 33, 9420-9430.	1.7	13
26	Interaction of plasticity and circuit organization during the acquisition of cerebellum-dependent motor learning. <i>ELife</i> , 2013, 2, e01574.	2.8	32
27	Reward Action in the Initiation of Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2012, 32, 2856-2867.	1.7	28
28	The Interaction of Bayesian Priors and Sensory Data and Its Neural Circuit Implementation in Visually Guided Movement. <i>Journal of Neuroscience</i> , 2012, 32, 17632-17645.	1.7	45
29	Sensory versus motor loci for integration of multiple motion signals in smooth pursuit eye movements and human motion perception. <i>Journal of Neurophysiology</i> , 2011, 106, 741-753.	0.9	11
30	Learned Timing of Motor Behavior in the Smooth Eye Movement Region of the Frontal Eye Fields. <i>Neuron</i> , 2011, 69, 159-169.	3.8	14
31	A Neurally Efficient Implementation of Sensory Population Decoding. <i>Journal of Neuroscience</i> , 2011, 31, 4868-4877.	1.7	12
32	Learning on Multiple Timescales in Smooth Pursuit Eye Movements. <i>Journal of Neurophysiology</i> , 2010, 104, 2850-2862.	0.9	42
33	Visual Guidance of Smooth-Pursuit Eye Movements: Sensation, Action, and What Happens in Between. <i>Neuron</i> , 2010, 66, 477-491.	3.8	189
34	Stimulus onset quenches neural variability: a widespread cortical phenomenon. <i>Nature Neuroscience</i> , 2010, 13, 369-378.	7.1	907
35	Encoding and Decoding of Learned Smooth-Pursuit Eye Movements in the Floccular Complex of the Monkey Cerebellum. <i>Journal of Neurophysiology</i> , 2009, 102, 2039-2054.	0.9	62
36	Noise Correlations in Cortical Area MT and Their Potential Impact on Trial-by-Trial Variation in the Direction and Speed of Smooth-Pursuit Eye Movements. <i>Journal of Neurophysiology</i> , 2009, 101, 3012-3030.	0.9	115

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37	Links from complex spikes to local plasticity and motor learning in the cerebellum of awake-behaving monkeys. <i>Nature Neuroscience</i> , 2008, 11, 1185-1192.	7.1	250
38	Cortical Mechanisms of Smooth Eye Movements Revealed by Dynamic Covariations of Neural and Behavioral Responses. <i>Neuron</i> , 2008, 58, 248-260.	3.8	59
39	The Neural Basis for Combinatorial Coding in a Cortical Population Response. <i>Journal of Neuroscience</i> , 2008, 28, 13522-13531.	1.7	132
40	Variation, Signal, and Noise in Cerebellar Sensory-Motor Processing for Smooth-Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2007, 27, 6832-6842.	1.7	106
41	Time Course of Precision in Smooth-Pursuit Eye Movements of Monkeys. <i>Journal of Neuroscience</i> , 2007, 27, 2987-2998.	1.7	69
42	Saccades Exert Spatial Control of Motion Processing for Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2006, 26, 7607-7618.	1.7	18
43	Directional Cuing of Target Choice in Human Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2006, 26, 12479-12486.	1.7	36
44	A sensory source for motor variation. <i>Nature</i> , 2005, 437, 412-416.	13.7	267
45	Discharge Properties of MST Neurons That Project to the Frontal Pursuit Area in Macaque Monkeys. <i>Journal of Neurophysiology</i> , 2005, 94, 1084-1090.	0.9	27
46	Normal Performance and Expression of Learning in the Vestibulo-Ocular Reflex (VOR) at High Frequencies. <i>Journal of Neurophysiology</i> , 2005, 93, 2028-2038.	0.9	79
47	The Representation of Time for Motor Learning. <i>Neuron</i> , 2005, 45, 157-167.	3.8	79
48	Time Course of Information about Motion Direction in Visual Area MT of Macaque Monkeys. <i>Journal of Neuroscience</i> , 2004, 24, 3210-3222.	1.7	130
49	A Population Decoding Framework for Motion Aftereffects on Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2004, 24, 9035-9048.	1.7	21
50	Estimating Target Speed from the Population Response in Visual Area MT. <i>Journal of Neuroscience</i> , 2004, 24, 1907-1916.	1.7	119
51	Evidence for Object Permanence in the Smooth-Pursuit Eye Movements of Monkeys. <i>Journal of Neurophysiology</i> , 2003, 90, 2205-2218.	0.9	78
52	The Neural Representation of Speed in Macaque Area MT/V5. <i>Journal of Neuroscience</i> , 2003, 23, 5650-5661.	1.7	246
53	Role of Arcuate Frontal Cortex of Monkeys in Smooth Pursuit Eye Movements. II. Relation to Vector Averaging Pursuit. <i>Journal of Neurophysiology</i> , 2002, 87, 2700-2714.	0.9	30
54	Role of Arcuate Frontal Cortex of Monkeys in Smooth Pursuit Eye Movements. I. Basic Response Properties to Retinal Image Motion and Position. <i>Journal of Neurophysiology</i> , 2002, 87, 2684-2699.	0.9	80

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55	Enhancement of Multiple Components of Pursuit Eye Movement by Microstimulation in the Arcuate Frontal Pursuit Area in Monkeys. <i>Journal of Neurophysiology</i> , 2002, 87, 802-818.	0.9	75
56	Serial linkage of target selection for orienting and tracking eye movements. <i>Nature Neuroscience</i> , 2002, 5, 892-899.	7.1	46
57	Shifts in the Population Response in the Middle Temporal Visual Area Parallel Perceptual and Motor Illusions Produced by Apparent Motion. <i>Journal of Neuroscience</i> , 2001, 21, 9387-9402.	1.7	77
58	Experimental and Computational Analysis of Monkey Smooth Pursuit Eye Movements. <i>Journal of Neurophysiology</i> , 2001, 86, 741-759.	0.9	49
59	Linked Target Selection for Saccadic and Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2001, 21, 2075-2084.	1.7	70
60	Reconstruction of Target Speed for the Guidance of Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2001, 21, 3196-3206.	1.7	40
61	Regulation of the gain of visually guided smooth-pursuit eye movements by frontal cortex. <i>Nature</i> , 2001, 409, 191-194.	13.7	157
62	Apparent Motion Produces Multiple Deficits in Visually Guided Smooth Pursuit Eye Movements of Monkeys. <i>Journal of Neurophysiology</i> , 2000, 84, 216-235.	0.9	38
63	Changes in the Responses of Purkinje Cells in the Floccular Complex of Monkeys After Motor Learning in Smooth Pursuit Eye Movements. <i>Journal of Neurophysiology</i> , 2000, 84, 2945-2960.	0.9	64
64	Visual Motion Analysis for Pursuit Eye Movements in Area MT of Macaque Monkeys. <i>Journal of Neuroscience</i> , 1999, 19, 2224-2246.	1.7	303
65	Physiologic basis for motor learning in the vestibulo-ocular reflex. <i>Otolaryngology - Head and Neck Surgery</i> , 1998, 119, 43-48.	1.1	49
66	Neural Learning Rules for the Vestibulo-Ocular Reflex. <i>Journal of Neuroscience</i> , 1998, 18, 9112-9129.	1.7	191
67	Vector Averaging for Smooth Pursuit Eye Movements Initiated by Two Moving Targets in Monkeys. <i>Journal of Neuroscience</i> , 1997, 17, 7490-7502.	1.7	146
68	Neuronal Responses in Visual Areas MT and MST During Smooth Pursuit Target Selection. <i>Journal of Neurophysiology</i> , 1997, 78, 1433-1446.	0.9	84
69	Behavioral Analysis of Signals that Guide Learned Changes in the Amplitude and Dynamics of the Vestibulo-Ocular Reflex. <i>Journal of Neuroscience</i> , 1996, 16, 7791-7802.	1.7	67
70	Initial tracking conditions modulate the gain of visuo-motor transmission for smooth pursuit eye movements in monkeys. <i>Visual Neuroscience</i> , 1994, 11, 411-424.	0.5	120
71	A model of visually-guided smooth pursuit eye movements based on behavioral observations. <i>Journal of Computational Neuroscience</i> , 1994, 1, 265-283.	0.6	122
72	Eye movements and brainstem neuronal responses evoked by cerebellar and vestibular stimulation in chicks. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 171, 629-638.	0.7	20

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73	Toward a Biomimetic Neural Circuit Model of Sensory-Motor Processing. Neural Computation, 0, , 1-29.	1.3	0