Guillaume S Masson

List of Publications by Year
in descending order

65 papers	2,042 citations	201674 27 h-index	254184 43 g-index
67 all docs	67 docs citations	67 times ranked	1489 citing authors

#	Article	IF	Citations
1	Motion perception during saccadic eye movements. Nature Neuroscience, 2000, 3, 177-183.	14.8	137
2	Postural effects of motion vision in young autistic children. NeuroReport, 1995, 6, 1211-1214.	1.2	109
3	Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans. Vision Research, 1995, 35, 837-852.	1.4	96
4	Dynamics of attentional deployment during saccadic programming. Journal of Vision, 2006, 6, 2.	0.3	87
5	Temporal dynamics of motion integration for the initiation of tracking eye movements at ultra-short latencies. Visual Neuroscience, 2000, 17, 753-767.	1.0	76
6	Motion perception of saccade-induced retinal translation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15159-15163.	7.1	73
7	Bio-inspired computer vision: Towards a synergistic approach of artificial and biological vision. Computer Vision and Image Understanding, 2016, 150, 1-30.	4.7	73
8	Action Recognition Using a Bio-Inspired Feedforward Spiking Network. International Journal of Computer Vision, 2009, 82, 284-301.	15.6	71
9	Functional consequences of correlated excitatory and inhibitory conductances in cortical networks. Journal of Computational Neuroscience, 2010, 28, 579-594.	1.0	71
10	Parallel Motion Processing for the Initiation of Short-Latency Ocular Following in Humans. Journal of Neuroscience, 2002, 22, 5149-5163.	3.6	70
11	From Following Edges to Pursuing Objects. Journal of Neurophysiology, 2002, 88, 2869-2873.	1.8	67
12	More is not always better: adaptive gain control explains dissociation between perception and action. Nature Neuroscience, 2012, 15, 1596-1603.	14.8	60
13	Dynamics of Local Input Normalization Result from Balanced Short- and Long-Range Intracortical Interactions in Area V1. Journal of Neuroscience, 2012, 32, 12558-12569.	3.6	57
14	The behavioral receptive field underlying motion integration for primate tracking eye movements. Neuroscience and Biobehavioral Reviews, 2012, 36, 1-25.	6.1	51
15	Apomorphine-Induced Yawning in Migraine Patients. Clinical Neuropharmacology, 1991, 14, 91.	0.7	49
16	Visual Perception Modifies Goal-directed Movement Control: Supporting Evidence from a Visual Perturbation Paradigm. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1997, 50, 726-741.	2.3	43
17	Bayesian modeling of dynamic motion integration. Journal of Physiology (Paris), 2007, 101, 64-77.	2.1	42
18	The Flash-Lag Effect as a Motion-Based Predictive Shift. PLoS Computational Biology, 2017, 13, e1005068.	3.2	40

#	Article	IF	Citations
19	Inhibition of corneal neovascularization after alkali burn: comparison of different doses of bevacizumab in monotherapy or associated with dexamethasone. Clinical and Experimental Ophthalmology, 2010, 38, 346-352.	2.6	39
20	Object Motion Computation for the Initiation of Smooth Pursuit Eye Movements in Humans. Journal of Neurophysiology, 2005, 93, 2279-2293.	1.8	38
21	Dynamic interaction between retinal and extraretinal signals in motion integration for smooth pursuit. Journal of Vision, 2013, 13, 5-5.	0.3	38
22	Speed tuning of motion segmentation and discrimination. Vision Research, 1999, 39, 4297-4308.	1.4	36
23	â€˜Saccadic suppressionâ€™ â€“ no need for an active extra-retinal mechanism. Trends in Neurosciences, 2001, 24, 316-317.	8.6	36
24	Push-Pull Receptive Field Organization and Synaptic Depression: Mechanisms for Reliably Encoding Naturalistic Stimuli in V1. Frontiers in Neural Circuits, 2016, 10, 37.	2.8	35
25	Behavioral Receptive Field for Ocular Following in Humans: Dynamics of Spatial Summation and Center-Surround Interactions. Journal of Neurophysiology, 2006, 95, 3712-3726.	1.8	34
26	Modelling the dynamics of motion integration with a new luminance-gated diffusion mechanism. Vision Research, 2010, 50, 1676-1692.	1.4	33
27	From 1D to 2D via 3D: dynamics of surface motion segmentation for ocular tracking in primates. Journal of Physiology (Paris), 2004, 98, 35-52.	2.1	32
28	Influence of background illumination on fixation and visually guided saccades in the rhesus monkey. Vision Research, 2006, 46, 149-162.	1.4	32
29	Motion clouds: model-based stimulus synthesis of natural-like random textures for the study of motion perception. Journal of Neurophysiology, 2012, 107, 3217-3226.	1.8	32
30	Dynamics of distributed 1D and 2D motion representations for short-latency ocular following. Vision Research, 2008, 48, 501-522.	1.4	30
31	Predicting 2D Target Velocity Cannot Help 2D Motion Integration for Smooth Pursuit Initiation. Journal of Neurophysiology, 2006, 96, 3545-3550.	1.8	28
32	Linear model decomposition for voltage-sensitive dye imaging signals: Application in awake behaving monkey. NeuroImage, 2011, 54, 1196-1210.	4.2	28
33	Spatial scale of motion segmentation from speed cues. Vision Research, 2001, 41, 2697-2713.	1.4	24
34	Temporal Dynamics of 2D Motion Integration for Ocular Following in Macaque Monkeys. Journal of Neurophysiology, 2010, 103, 1275-1282.	1.8	23
35	Motion-based prediction explains the role of tracking in motion extrapolation. Journal of Physiology (Paris), 2013, 107, 409-420.	2.1	23
36	Pursuing motion illusions: A realistic oculomotor framework for Bayesian inference. Vision Research, 2011, 51, 867-880.	1.4	22

#	Article	IF	Citations
37	Motion-Based Prediction Is Sufficient to Solve the Aperture Problem. Neural Computation, 2012, 24, 2726-2750.	2.2	19
38	Behavioral characterization of prediction and internal models in adolescents with autistic spectrum disorders. Neuropsychologia, 2016, 91, 335-345.	1.6	18
39	Sex differences in visuomotor tracking. Scientific Reports, 2020, 10, 11863.	3.3	18
40	The relative contribution of noise and adaptation to competition during tri-stable motion perception. Journal of Vision, 2016, 16, 6.	0.3	16
41	Anisotropic connectivity implements motion-based prediction in a spiking neural network. Frontiers in Computational Neuroscience, 2013, 7, 112.	2.1	13
42	A Normalization Mechanism for Estimating Visual Motion across Speeds and Scales. Current Biology, 2017, 27, 1514-1520.e3.	3.9	13
43	Recurrent network dynamics reconciles visual motion segmentation and integration. Scientific Reports, 2017, 7, 11270.	3.3	12
44	A processing work-flow for measuring erythrocytes velocity in extended vascular networks from wide field high-resolution optical imaging data. NeuroImage, 2012, 59, 2569-2588.	4.2	11
45	Looking for symmetry: fixational eye movements are biased by image mirror symmetry. Journal of Neurophysiology, 2016, 116, 1250-1260.	1.8	11
46	Modeling spatial integration in the ocular following response using a probabilistic framework. Journal of Physiology (Paris), 2007, 101, 46-55.	2.1	10
47	Fixational saccades during grating detection and discrimination. Vision Research, 2016, 118, 105-118.	1.4	10
48	A New Variational Method for Erythrocyte Velocity Estimation in Wide-Field ImagingIn Vivo. IEEE Transactions on Medical Imaging, 2011, 30, 1527-1545.	8.9	7
49	Low luminance contrast sensitivity: Effects of training on psychophysical and optokinetic nystagmus thresholds in man. Vision Research, 1994, 34, 1893-1899.	1.4	5
50	A quantification framework for post-lesion neo-vascularization in retinal angiography. , 2008, , .		5
51	Dynamic resolution of ambiguity during tri-stable motion perception. Vision Research, 2015, 107, 113-123.	1.4	5
52	Decoding MT motion response for optical flow estimation: An experimental evaluation. , 2015, , .		3
53	When the Brain Meets the Eye: Tracking Object Motion. , 2009, , 161-188.		3
54	A Neural Field Model for Motion Estimation. Springer Proceedings in Mathematics, 2011, , 159-179.	0.5	3

#	Article	IF	Citations
55	MODULATIONS OF THE OPTICAL FLOW DID NOT INDUCE LOCOMOTOR PATTERN FLUCTUATIONS IN TREADMILL WALKING IN MAN. Perceptual and Motor Skills, 1994, 78, 755-767.	1.3	3
56	Control of the temporal interplay between excitation and inhibition by the statistics of visual input. BMC Neuroscience, 2009, 10, .	1.9	2
57	Speed estimation for visual tracking emerges dynamically from nonlinear frequency interactions. ENeuro, 2022, , ENEURO.0511-21.2022.	1.9	2
58	Visual stimulation quenches global alpha range activity in awake primate V4: a case study. Neurophotonics, 2017, 4, 031222.	3.3	1
59	Adaptive Motion Pooling and Diffusion for Optical Flow Computation. Lecture Notes in Computer Science, 2017, , 60-71.	1.3	1
60	Anticipation of an approaching bar by neuronal populations in awake monkey V1. Journal of Vision, 2015, 15, 479.	0.3	1
61	Decoding the population dynamics underlying ocular following response using a probabilistic framework. BMC Neuroscience, 2009, 10, .	1.9	0
62	Fixate and stabilize: shall the twain meet?. Nature Neuroscience, 2013, 16, 663-664.	14.8	0
63	Evaluating Motion Estimation Models from Behavioural and Psychophysical Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 483-496.	0.3	0
64	V1 population activity represents global motion velocity of long-range apparent motion in the awake monkey. Journal of Vision, 2015, 15, 480.	0.3	0
65	Spatial phase dependence in motion mechanisms serving Ocular Following Responses. Journal of Vision, 2015, 15, 216.	0.3	0