Stefano Ramat

List of Publications by Year in descending order

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101 papers	1,854 citations	304368 22 h-index	315357 38 g-index
105 all docs	105 docs citations	105 times ranked	1444 citing authors

#	Article	IF	Citations
1	What clinical disorders tell us about the neural control of saccadic eye movements. Brain, 2006, 130, 10-35.	3.7	197
2	Ocular oscillations generated by coupling of brainstem excitatory and inhibitory saccadic burst neurons. Experimental Brain Research, 2005, 160, 89-106.	0.7	98
3	Saccadic Burst Cell Membrane Dysfunction Is Responsible for Saccadic Oscillations. Journal of Neuro-Ophthalmology, 2008, 28, 329-336.	0.4	85
4	Velocity Storage Contribution to Vestibular Self-Motion Perception in Healthy Human Subjects. Journal of Neurophysiology, 2011, 105, 209-223.	0.9	75
5	Ocular Motor Responses to Abrupt Interaural Head Translation in Normal Humans. Journal of Neurophysiology, 2003, 90, 887-902.	0.9	68
6	A new familial disease of saccadic oscillations and limb tremor provides clues to mechanisms of common tremor disorders. Brain, 2007, 130, 3020-3031.	3.7	61
7	Design, Methods, and Evaluation Directions of a Multi-Access Service for the Management of Diabetes Mellitus Patients. Diabetes Technology and Therapeutics, 2003, 5, 621-629.	2.4	58
8	Irregularity distinguishes limb tremor in cervical dystonia from essential tremor. Journal of Neurology, Neurosurgery and Psychiatry, 2008, 79, 187-189.	0.9	58
9	Is Vestibular Self-Motion Perception Controlled by the Velocity Storage? Insights from Patients with Chronic Degeneration of the Vestibulo-Cerebellum. PLoS ONE, 2012, 7, e36763.	1.1	48
10	Saccadic palsy after cardiac surgery: characteristics and pathogenesis. Annals of Neurology, 2008, 63, 355-365.	2.8	39
11	A Device for the Functional Evaluation of the VOR in Clinical Settings. Frontiers in Neurology, 2012, 3, 39.	1.1	39
12	A New Tool for Investigating the Functional Testing of the VOR. Frontiers in Neurology, 2013, 4, 165.	1.1	37
13	A Wearable and Modular Inertial Unit for Measuring Limb Movements and Balance Control Abilities. IEEE Sensors Journal, 2016, 16, 790-797.	2.4	37
14	Translational Vestibuloâ€Ocular Reflex Evoked by a â€œHead Heaveâ€•Stimulus. Annals of the New York Academy of Sciences, 2001, 942, 95-113.	1.8	33
15	Influence of Orientation of Exiting Wire of Search Coil Annulus on Torsion after Saccades. , 2004, 45, 131.		32
16	Interaural Translational VOR: Suppression, Enhancement, and Cognitive Control. Journal of Neurophysiology, 2005, 94, 2391-2402.	0.9	31
17	Applying saccade models to account for oscillations. Progress in Brain Research, 2008, 171, 123-130.	0.9	31
18	Hypothetical membrane mechanisms in essential tremor. Journal of Translational Medicine, 2008, 6, 68.	1.8	30

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19	Vergenceâ€Mediated Modulation of the Human Horizontal Angular VOR Provides Evidence of Pathwayâ€Specific Changes in VOR Dynamics. Annals of the New York Academy of Sciences, 2002, 956, 324-337.	1.8	29
20	New insights into vestibular-saccade interaction based on covert corrective saccades in patients with unilateral vestibular deficits. Journal of Neurophysiology, 2017, 117, 2324-2338.	0.9	29
21	The functional head impulse test: preliminary data. Journal of Neurology, 2018, 265, 35-39.	1.8	29
22	The Effect of Vestibulo-Ocular Reflex Deficits and Covert Saccades on Dynamic Vision in Opioid-Induced Vestibular Dysfunction. PLoS ONE, 2014, 9, e110322.	1.1	27
23	The Functional Head Impulse Test to Assess Oscillopsia in Bilateral Vestibulopathy. Frontiers in Neurology, 2019, 10, 365.	1.1	25
24	A parallel neural processor for real-time applications. IEEE Micro, 2002, 22, 20-31.	1.8	23
25	The Cerebellar Contribution to Eye Movements Based upon Lesions. Annals of the New York Academy of Sciences, 2002, 956, 178-189.	1.8	23
26	An Instrumented Insole for Long Term Monitoring Movement, Comfort, and Ergonomics. IEEE Sensors Journal, 2014, 14, 1564-1572.	2.4	23
27	Gazeâ€evoked nystagmus induced by alcohol intoxication. Journal of Physiology, 2017, 595, 2161-2173.	1.3	23
28	The effects of ion channel blockers validate the conductanceâ€based model of saccadic oscillations. Annals of the New York Academy of Sciences, 2011, 1233, 58-63.	1.8	22
29	Evaluation of Upper Limb Sense of Position in Healthy Individuals and Patients after Stroke. Journal of Healthcare Engineering, 2014, 5, 145-162.	1.1	22
30	Tests of two hypotheses to account for different-sized saccades during disjunctive gaze shifts. Experimental Brain Research, 1999, 129, 0500-0510.	0.7	21
31	Velocity storage in the human vertical rotational vestibulo-ocular reflex. Experimental Brain Research, 2011, 209, 51-63.	0.7	19
32	Reading while moving: The functional assessment of VOR. Journal of Vestibular Research: Equilibrium and Orientation, 2014, 24, 459-464.	0.8	19
33	Optimizing spatial filter pairs for EEG classification based on phase-synchronization. , 2014, , .		19
34	Restoring the High-Frequency Dynamic Visual Acuity with a Vestibular Implant Prototype in Humans. Audiology and Neuro-Otology, 2020, 25, 91-95.	0.6	19
35	The integration of multisensory motion stimuli is impaired in vestibular migraine patients. Journal of Neurology, 2020, 267, 2842-2850.	1.8	18
36	Theta-Burst Stimulation of the Cerebellum Interferes with Internal Representations of Sensory-Motor Information Related to Eye Movements in Humans. Cerebellum, 2011, 10, 711-719.	1.4	17

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37	Artifact avoidance for head impulse testing. Clinical Neurophysiology, 2014, 125, 1071-1073.	0.7	17
38	Multiple timescales in the adaptation of the rotational VOR. Journal of Neurophysiology, 2015, 113, 3130-3142.	0.9	17
39	Understanding the rotational vestibular ocular reflex: From differential equations to Laplace transforms. Progress in Brain Research, 2019, 248, 29-44.	0.9	17
40	Ocular oscillations induced by shifts of the direction and depth of visual fixation. Annals of Neurology, 2001, 49, 24-28.	2.8	16
41	Automatic Pose Recognition for Monitoring Dangerous Situations in Ambient-Assisted Living. Frontiers in Bioengineering and Biotechnology, 2020, 8, 415.	2.0	16
42	Do humans show velocity-storage in the vertical rVOR?. Progress in Brain Research, 2008, 171, 207-210.	0.9	14
43	Estimating the Time Constants of the rVOR. Annals of the New York Academy of Sciences, 2009, 1164, 140-146.	1.8	14
44	The role of the medial longitudinal fasciculus in horizontal gaze: tests of current hypotheses for saccade-vergence interactions. Experimental Brain Research, 2011, 208, 335-343.	0.7	14
45	Characteristic Eye Movements in Ataxia-Telangiectasia-Like Disorder: An Explanatory Hypothesis. Frontiers in Neurology, 2017, 8, 596.	1.1	14
46	Context-specific adaptation of the gain of the oculomotor response to lateral translation using roll and pitch head tilts as contexts. Experimental Brain Research, 2002, 146, 388-393.	0.7	13
47	Effect of bluetooth headset and mobile phone electromagnetic fields on the human auditory nerve. Laryngoscope, 2014, 124, 255-259.	1.1	12
48	Vestibulo-Ocular Responses and Dynamic Visual Acuity During Horizontal Rotation and Translation. Frontiers in Neurology, 2019, 10, 321.	1.1	12
49	Affordable, automatic quantitative fall risk assessment based on clinical balance scales and Kinect data. , 2014, 2014, 3500-3.		11
50	Functional Head Impulse Test in Professional Athletes: Sport-Specific Normative Values and Implication for Sport-Related Concussion. Frontiers in Neurology, 2019, 10, 387.	1.1	11
51	The functional head impulse test: Comparing gain and percentage of correct answers. Progress in Brain Research, 2019, 248, 241-248.	0.9	11
52	Neuropharmacologic aspects of the ocular motor system and the treatment of abnormal eye movements. Current Opinion in Neurology, 1999, 12, 21-27.	1.8	11
53	A software program for the Head Impulse Testing Device (HITD). , 2010, 2010, 6615-8.		10
54	A role for NMDAR-dependent cerebellar plasticity in adaptive control of saccades in humans. Brain Stimulation, 2017, 10, 817-827.	0.7	10

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55	Transcranial magnetic stimulation over the cerebellum and eye movements: state of the art. Functional Neurology, 2010, 25, 165-71.	1.3	10
56	Translational VOR Responses to Abrupt Interaural Accelerations in Normal Humans. Annals of the New York Academy of Sciences, 2002, 956, 551-554.	1.8	9
57	Binocular Coordination in Fore/Aft Motion. Annals of the New York Academy of Sciences, 2005, 1039, 36-53.	1.8	9
58	Evaluating Large Saccades in Patients with Brain-Stem or Cerebellar Disorders. Annals of the New York Academy of Sciences, 2005, 1039, 404-416.	1.8	9
59	Intraoperative observation of changes in cochlear nerve action potentials during exposure to electromagnetic fields generated by mobile phones. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 766-771.	0.9	9
60	Enhanced toxicity of silver nanoparticles in transgenicCaenorhabditis elegansexpressing amyloidogenic proteins. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2015, 22, 221-228.	1.4	9
61	A quick look at slow saccades after cardiac surgery: where is the lesion?. Progress in Brain Research, 2008, 171, 587-590.	0.9	8
62	Vertical skew due to changes in gravitoinertial force: A possible consequence of otolith asymmetry. Journal of Vestibular Research: Equilibrium and Orientation, 2006, 16, 117-125.	0.8	8
63	Pursuit Responses to Target Steps During Ongoing Tracking. Journal of Neurophysiology, 2007, 97, 1266-1279.	0.9	7
64	Skeleton data pre-processing for human pose recognition using Neural Network. , 2020, 2020, 4265-4268.		7
65	Non-linearity in gaze holding: Experimental results and possible mechanisms. Progress in Brain Research, 2019, 248, 167-181.	0.9	6
66	Vertical skew due to changes in gravitoinertial force: a possible consequence of otolith asymmetry. Journal of Vestibular Research: Equilibrium and Orientation, 2006, 16, 117-25.	0.8	6
67	After Effects of Cerebellar Continuous Theta Burst Stimulation on Reflexive Saccades and Smooth Pursuit in Humans. Cerebellum, 2017, 16, 764-771.	1.4	5
68	Neural Networks for Automatic Posture Recognition in Ambient-Assisted Living. Sensors, 2022, 22, 2609.	2.1	5
69	Estimating the time constant of pitch rVOR by separation of otoliths and semicircular canals contributions. , 2008, 2008, 1060-3.		4
70	A new device to assess static ocular torsion. Annals of the New York Academy of Sciences, 2011, 1233, 226-230.	1.8	4
71	Anticipatory Saccadicâ€Vergence Responses in Humans. Annals of the New York Academy of Sciences, 2002, 956, 495-498.	1.8	3
72	About the Effects of Velocity Saturation on Smooth Pursuit. Annals of the New York Academy of Sciences, 2005, 1039, 459-462.	1.8	3

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73	Latency Detection in Motor Responses: A Model-Based Approach With Genetic Algorithm Optimization. IEEE Transactions on Biomedical Engineering, 2006, 53, 2015-2023.	2.5	3
74	A computational framework for the standardization of motion analysis exploiting wearable inertial sensors. , 2011, 2011, 4963-6.		3
75	A wearable system for measuring limb movements and balance control abilities based on a modular and low-cost inertial unit. , 2014, 2014, 3496-9.		3
76	Extraction of traditional COP-based features from COM sway in postural stability evaluation. , 2015, 2015, 3715-8.		3
77	Membrane Resonance in Pyramidal and GABAergic Neurons of the Mouse Perirhinal Cortex. Frontiers in Cellular Neuroscience, 2021, 15, 703407.	1.8	3
78	Eye-head coordination in darkness: formulation and testing of a mathematical model. Journal of Vestibular Research: Equilibrium and Orientation, 2003, 13, 79-91.	0.8	3
79	Identification and Recognition of Objects in Color Stereo Images Using a Hierachial SOM. , 2007, , .		2
80	A parallel neurochip for neural networks implementing the reactive tabu search algorithm: application case studies. , 0, , .		1
81	An internal model of self-motion based on inertial signals. , 2006, 2006, 4961-4.		1
82	Predicting losses of balance during upright stance: evaluation of a novel approach based on wearable accelerometers. , 2010, 2010, 4918-21.		1
83	Introduction toâ€‚Basic and Clinical Ocular Motor and Vestibular Research. Annals of the New York Academy of Sciences, 2011, 1233, ix-xi.	1.8	1
84	Feature computation for BCI applications: A general purpose approach using a genetic algorithm. Preliminary results. , 2013, , .		1
85	Bilateral vestibular impairment in Vogt Koyanagi Harada syndrome: a case report. Neurological Sciences, 2018, 39, 1609-1611.	0.9	1
86	Value of passive whole-body rotation: a model-based approach. Journal of Neurology, 2019, 266, 123-125.	1.8	1
87	Studying postural sway using wearable sensors: fall prediction. IFMBE Proceedings, 2010, , 620-623.	0.2	1
88	A General Purpose Approach to BCI Feature Computation Based on a Genetic Algorithm: Preliminary Results. IFMBE Proceedings, 2014, , 1714-1717.	0.2	1
89	Technical aspects in the recording of scanpath eye movements (poster session). , 2000, , .		0
90	Preface: A Tribute to David S. Zee. Annals of the New York Academy of Sciences, 2005, 1039, xiii-xiv.	1.8	0

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91	Oculomotor Responses to Active Head Movements in Darkness. Annals of the New York Academy of Sciences, 2006, 942, 482-485.	1.8	0
92	Fitting rVOR responses using current models. , 2009, 2009, 3259-62.		0
93	Otolith testing. Handbook of Clinical Neurophysiology, 2010, , 217-229.	0.0	0
94	Preface. Progress in Brain Research, 2019, 249, xxv.	0.9	0
95	Preface. Progress in Brain Research, 2019, 248, xxiii-xxv.	0.9	0
96	Editorial: Functional Testing of Vestibular Function. Frontiers in Neurology, 2020, 11, 654.	1.1	0
97	Eye Movement Analysis During Visual Exploration of Graphical Interfaces. , 2002, , 135-143.		0
98	A computer program for the functional assessment of the rotational vestibulo-ocular reflex (VOR). IFMBE Proceedings, 2010, , 502-505.	0.2	0
99	Dynamics of Learning in the Open Loop VOR. IFMBE Proceedings, 2014, , 1675-1678.	0.2	0
100	An Update on Mathematical Models of theÂSaccadic Mechanism. Contemporary Clinical Neuroscience, 2019, , 123-140.	0.3	0
101	A model arm for testing motor control theories on corrective movements during reaching. , 2007, , 986-989.		0