

# Opher Donchin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7642543/publications.pdf>

Version: 2024-02-01

75  
papers

4,191  
citations

136950

32  
h-index

128289

60  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mini-review: The Role of the Cerebellum in Visuomotor Adaptation. <i>Cerebellum</i> , 2022, 21, 306-313.	2.5	35
2	Recognition of natural objects in the archerfish. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	4
3	Prolonged feedback duration does not affect implicit recalibration in a visuomotor rotation task. <i>ENeuro</i> , 2022, , ENEURO.0447-21.2022.	1.9	1
4	Methods matter: Your measures of explicit and implicit processes in visuomotor adaptation affect your results. <i>European Journal of Neuroscience</i> , 2021, 53, 504-518.	2.6	48
5	Measures of explicit and implicit in motor learning: what we know and what we donâ€™t. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 128, 558-568.	6.1	16
6	Individual differences in error-related frontal midline theta activity during visuomotor adaptation. <i>NeuroImage</i> , 2021, 245, 118699.	4.2	4
7	Representation of edges, head direction, and swimming kinematics in the brain of freely-navigating fish. <i>Scientific Reports</i> , 2020, 10, 14762.	3.3	50
8	A Revised Computational Neuroanatomy for Motor Control. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 1823-1836.	2.3	26
9	A Neuroanatomically Grounded Optimal Control Model of the Compensatory Eye Movement System in Mice. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 13.	2.5	5
10	Intermanual transfer of visuomotor adaptation is related to awareness. <i>PLoS ONE</i> , 2019, 14, e0220748.	2.5	30
11	Long-range neural inhibition and stimulus competition in the archerfish optic tectum. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2019, 205, 537-552.	1.6	2
12	How to help cerebellar patients make the most of their remaining learning capacities. <i>Brain</i> , 2019, 142, 492-495.	7.6	7
13	TMS motor mapping: Comparing the absolute reliability of digital reconstruction methods to the golden standard. <i>Brain Stimulation</i> , 2019, 12, 309-313.	1.6	29
14	Eye Movements during Visuomotor Adaptation Represent Only Part of the Explicit Learning. <i>ENeuro</i> , 2019, 6, ENEURO.0308-19.2019.	1.9	13
15	Cerebellar transcranial direct current stimulation interacts with BDNF Val66Met in motor learning. <i>Brain Stimulation</i> , 2018, 11, 759-771.	1.6	14
16	Individual Differences in Motor Noise and Adaptation Rate Are Optimally Related. <i>ENeuro</i> , 2018, 5, ENEURO.0170-18.2018.	1.9	28
17	Long Pauses in Cerebellar Interneurons in Anesthetized Animals. <i>Cerebellum</i> , 2017, 16, 293-305.	2.5	0
18	Wireless electrophysiology of the brain of freely swimming goldfish. <i>Journal of Neuroscience Methods</i> , 2017, 278, 76-86.	2.5	26

#	ARTICLE	IF	CITATIONS
19	Cerebellar patients do not benefit from cerebellar or M1 transcranial direct current stimulation during force-field reaching adaptation. <i>Journal of Neurophysiology</i> , 2017, 118, 732-748.	1.8	43
20	Individual Movement Variability Magnitudes Are Explained by Cortical Neural Variability. <i>Journal of Neuroscience</i> , 2017, 37, 9076-9085.	3.6	51
21	Representing delayed force feedback as a combination of current and delayed states. <i>Journal of Neurophysiology</i> , 2017, 118, 2110-2131.	1.8	14
22	Effector-Invariant Movement Encoding in the Human Motor System. <i>Journal of Neuroscience</i> , 2017, 37, 9054-9063.	3.6	33
23	Cerebellar tDCS does not improve performance in probabilistic classification learning. <i>Experimental Brain Research</i> , 2017, 235, 421-428.	1.5	12
24	Cerebellar tDCS Does Not Enhance Performance in an Implicit Categorization Learning Task. <i>Frontiers in Psychology</i> , 2017, 08, 476.	2.1	16
25	Impairment of Long-Term Plasticity of Cerebellar Purkinje Cells Eliminates the Effect of Anodal Direct Current Stimulation on Vestibulo-Ocular Reflex Habituation. <i>Frontiers in Neuroscience</i> , 2017, 11, 444.	2.8	12
26	Impact of Transcranial Direct Current Stimulation (tDCS) on Neuronal Functions. <i>Frontiers in Neuroscience</i> , 2016, 10, 550.	2.8	73
27	Superposition Violations in the Compensatory Eye Movement System. , 2016, 57, 3554.		4
28	Stimulation of PPC Affects the Mapping between Motion and Force Signals for Stiffness Perception But Not Motion Control. <i>Journal of Neuroscience</i> , 2016, 36, 10545-10559.	3.6	27
29	Lesion-Symptom Mapping. , 2016, , 489-497.		1
30	Awareness of Sensorimotor Adaptation to Visual Rotations of Different Size. <i>PLoS ONE</i> , 2015, 10, e0123321.	2.5	89
31	Cerebellar Transcranial Direct Current Stimulation Effects on Saccade Adaptation. <i>Neural Plasticity</i> , 2015, 2015, 1-9.	2.2	27
32	Pharmacological study of direction selectivity in the archer fish retina. <i>Journal of Integrative Neuroscience</i> , 2015, 14, 473-490.	1.7	2
33	Behavioural and neural basis of anomalous motor learning in children with autism. <i>Brain</i> , 2015, 138, 784-797.	7.6	117
34	Spontaneous Activity Does Not Predict Morphological Type in Cerebellar Interneurons. <i>Journal of Neuroscience</i> , 2015, 35, 1432-1442.	3.6	12
35	Pop-out in visual search of moving targets in the archer fish. <i>Nature Communications</i> , 2015, 6, 6476.	12.8	60
36	Ageing shows a pattern of cerebellar degeneration analogous, but not equal, to that in patients suffering from cerebellar degenerative disease. <i>NeuroImage</i> , 2015, 116, 196-206.	4.2	32

#	ARTICLE	IF	CITATIONS
37	Asymmetric generalization in adaptation to target displacement errors in humans and in a neural network model. <i>Journal of Neurophysiology</i> , 2015, 113, 2360-2375.	1.8	2
38	Dissociating Visual and Motor Directional Selectivity Using Visuomotor Adaptation. <i>Journal of Neuroscience</i> , 2015, 35, 6813-6821.	3.6	56
39	Structural correlates of motor adaptation deficits in patients with acute focal lesions of the cerebellum. <i>Experimental Brain Research</i> , 2014, 232, 2847-2857.	1.5	24
40	Cerebellar involvement in categorisation: a bipolar tDCS study.. <i>Brain Stimulation</i> , 2014, 7, e4.	1.6	2
41	Polarity-dependent effects of trans-cranial direct current stimulation (tDCS) in cerebellar learning depends on the state of neuronal network. <i>Brain Stimulation</i> , 2014, 7, e3.	1.6	2
42	Visual receptive field properties of cells in the optic tectum of the archer fish. <i>Journal of Neurophysiology</i> , 2013, 110, 748-759.	1.8	20
43	Into the Square and out of the Box: The effects of Quadrato Motor Training on Creativity and Alpha Coherence. <i>PLoS ONE</i> , 2013, 8, e55023.	2.5	43
44	Lesion-Symptom Mapping of the Human Cerebellum. , 2013, , 1627-1656.		3
45	Deficient Use of Visual Information in Estimating Hand Position in Cerebellar Patients. <i>Journal of Neuroscience</i> , 2012, 32, 16274-16284.	3.6	19
46	Haptic Human-Robot Interaction. <i>IEEE Transactions on Haptics</i> , 2012, 5, 193-195.	2.7	3
47	Cerebellar regions involved in adaptation to force field and visuomotor perturbation. <i>Journal of Neurophysiology</i> , 2012, 107, 134-147.	1.8	164
48	Correlations in state space can cause sub-optimal adaptation of optimal feedback control models. <i>Journal of Computational Neuroscience</i> , 2012, 32, 297-307.	1.0	6
49	Archer fish fast hunting maneuver may be guided by directionally selective retinal ganglion cells. <i>European Journal of Neuroscience</i> , 2012, 35, 436-444.	2.6	20
50	Time Production and EEG Alpha Revisited. <i>NeuroQuantology</i> , 2009, 7, .	0.2	16
51	Forward models and state estimation in compensatory eye movements. <i>Frontiers in Cellular Neuroscience</i> , 2009, 3, 13.	3.7	25
52	Pausing Purkinje cells in the cerebellum of the awake cat. <i>Frontiers in Systems Neuroscience</i> , 2009, 3, 2.	2.5	58
53	Current advances in lesion-symptom mapping of the human cerebellum. <i>Neuroscience</i> , 2009, 162, 836-851.	2.3	72
54	Adaptation to Visuomotor Rotation and Force Field Perturbation Is Correlated to Different Brain Areas in Patients With Cerebellar Degeneration. <i>Journal of Neurophysiology</i> , 2009, 101, 1961-1971.	1.8	192

#	ARTICLE	IF	CITATIONS
55	Motor Adaptation as a Process of Reoptimization. <i>Journal of Neuroscience</i> , 2008, 28, 2883-2891.	3.6	283
56	Acquisition of internal models of motor tasks in children with autism. <i>Brain</i> , 2008, 131, 2894-2903.	7.6	98
57	Internal Models and Contextual Cues: Encoding Serial Order and Direction of Movement. <i>Journal of Neurophysiology</i> , 2005, 93, 786-800.	1.8	49
58	Where in the brain does the forward model lurk?. <i>Behavioral and Brain Sciences</i> , 2004, 27, 402-403.	0.7	0
59	Learning Dynamics of Reaching. <i>Frontiers in Neuroscience</i> , 2004, , .	0.0	7
60	Learned Dynamics of Reaching Movements Generalize From Dominant to Nondominant Arm. <i>Journal of Neurophysiology</i> , 2003, 89, 168-176.	1.8	290
61	A Gain-Field Encoding of Limb Position and Velocity in the Internal Model of Arm Dynamics. <i>PLoS Biology</i> , 2003, 1, e25.	5.6	108
62	A zetic's perspective on gesture, speech, and the evolution of right-handedness. <i>Behavioral and Brain Sciences</i> , 2003, 26, .	0.7	0
63	Quantifying Generalization from Trial-by-Trial Behavior of Adaptive Systems that Learn with Basis Functions: Theory and Experiments in Human Motor Control. <i>Journal of Neuroscience</i> , 2003, 23, 9032-9045.	3.6	415
64	Single-Unit Activity Related to Bimanual Arm Movements in the Primary and Supplementary Motor Cortices. <i>Journal of Neurophysiology</i> , 2002, 88, 3498-3517.	1.8	112
65	Mechanisms Influencing Acquisition and Recall of Motor Memories. <i>Journal of Neurophysiology</i> , 2002, 88, 2114-2123.	1.8	116
66	A Real-Time State Predictor in Motor Control: Study of Saccadic Eye Movements during Unseen Reaching Movements. <i>Journal of Neuroscience</i> , 2002, 22, 7721-7729.	3.6	143
67	Timing of bimanual movements in human and non-human primates in relation to neuronal activity in primary motor cortex and supplementary motor area. <i>Experimental Brain Research</i> , 2002, 146, 322-335.	1.5	40
68	Neuronal populations in primary motor cortex encode bimanual arm movements. <i>European Journal of Neuroscience</i> , 2002, 15, 1371-1380.	2.6	81
69	Local field potentials related to bimanual movements in the primary and supplementary motor cortices. <i>Experimental Brain Research</i> , 2001, 140, 46-55.	1.5	62
70	Neural interactions between motor cortical hemispheres during bimanual and unimanual arm movements. <i>European Journal of Neuroscience</i> , 2001, 14, 1881-1896.	2.6	99
71	Who Tells One Hand What the Other Is Doing. <i>Neuron</i> , 1999, 23, 15-18.	8.1	42
72	Primary motor cortex is involved in bimanual coordination. <i>Nature</i> , 1998, 395, 274-278.	27.8	265

#	ARTICLE	IF	CITATIONS
73	Interleukin-1 Inhibits Sexual Behavior in Female but Not in Male Rats. <i>Brain, Behavior, and Immunity</i> , 1995, 9, 220-233.	4.1	92
74	Behavioral Effects of Interleukin-1 $\beta$ : Modulation by Gender, Estrus Cycle, and Progesterone. <i>Brain, Behavior, and Immunity</i> , 1995, 9, 234-241.	4.1	54
75	Behavioral effects of lipopolysaccharide in rats: involvement of endogenous opioids. <i>Brain Research</i> , 1994, 648, 80-86.	2.2	102