

# Takeo Watanabe

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

6,204  
citations

81900

39  
h-index

74163

75  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perceptual learning without perception. <i>Nature</i> , 2001, 413, 844-848.	27.8	520
2	Perceptual Learning Incepted by Decoded fMRI Neurofeedback Without Stimulus Presentation. <i>Science</i> , 2011, 334, 1413-1415.	12.6	422
3	Advances in visual perceptual learning and plasticity. <i>Nature Reviews Neuroscience</i> , 2010, 11, 53-60.	10.2	356
4	A unified model for perceptual learning. <i>Trends in Cognitive Sciences</i> , 2005, 9, 329-334.	7.8	303
5	Rewards Evoke Learning of Unconsciously Processed Visual Stimuli in Adult Humans. <i>Neuron</i> , 2009, 61, 700-707.	8.1	293
6	Different Dynamics of Performance and Brain Activation in the Time Course of Perceptual Learning. <i>Neuron</i> , 2008, 57, 827-833.	8.1	280
7	Is subliminal learning really passive?. <i>Nature</i> , 2003, 422, 36-36.	27.8	261
8	Perceptual Learning: Toward a Comprehensive Theory. <i>Annual Review of Psychology</i> , 2015, 66, 197-221.	17.7	257
9	Perceptual learning rules based on reinforcers and attention. <i>Trends in Cognitive Sciences</i> , 2010, 14, 64-71.	7.8	241
10	Advances in fMRI Real-Time Neurofeedback. <i>Trends in Cognitive Sciences</i> , 2017, 21, 997-1010.	7.8	190
11	Greater plasticity in lower-level than higher-level visual motion processing in a passive perceptual learning task. <i>Nature Neuroscience</i> , 2002, 5, 1003-1009.	14.8	188
12	Night Watch in One Brain Hemisphere during Sleep Associated with the First-Night Effect in Humans. <i>Current Biology</i> , 2016, 26, 1190-1194.	3.9	186
13	Greater Disruption Due to Failure of Inhibitory Control on an Ambiguous Distractor. <i>Science</i> , 2006, 314, 1786-1788.	12.6	184
14	Overlearning hyperstabilizes a skill by rapidly making neurochemical processing inhibitory-dominant. <i>Nature Neuroscience</i> , 2017, 20, 470-475.	14.8	146
15	Temporally Extended Dopamine Responses to Perceptually Demanding Reward-Predictive Stimuli. <i>Journal of Neuroscience</i> , 2010, 30, 10692-10702.	3.6	145
16	Attention-Regulated Activity in Human Primary Visual Cortex. <i>Journal of Neurophysiology</i> , 1998, 79, 2218-2221.	1.8	133
17	The phenomenon of task-irrelevant perceptual learning. <i>Vision Research</i> , 2009, 49, 2604-2610.	1.4	132
18	Location-Specific Cortical Activation Changes during Sleep after Training for Perceptual Learning. <i>Current Biology</i> , 2009, 19, 1278-1282.	3.9	120

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19	Task-specific disruption of perceptual learning. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14895-14900.	7.1	104
20	Task-irrelevant learning occurs only when the irrelevant feature is weak. Current Biology, 2008, 18, R516-R517.	3.9	100
21	Learning to Associate Orientation with Color in Early Visual Areas by Associative Decoded fMRI Neurofeedback. Current Biology, 2016, 26, 1861-1866.	3.9	97
22	Enhanced Spontaneous Oscillations in the Supplementary Motor Area Are Associated with Sleep-Dependent Offline Learning of Finger-Tapping Motor-Sequence Task. Journal of Neuroscience, 2013, 33, 13894-13902.	3.6	80
23	Toward a comprehensive understanding of the neural mechanisms of decoded neurofeedback. NeuroImage, 2019, 188, 539-556.	4.2	69
24	Perceptual learning, aging, and improved visual performance in early stages of visual processing. Journal of Vision, 2010, 10, 4-4.	0.3	62
25	Complementary contributions of non-REM and REM sleep to visual learning. Nature Neuroscience, 2020, 23, 1150-1156.	14.8	60
26	Differential Activation Patterns in the Same Brain Region Led to Opposite Emotional States. PLoS Biology, 2016, 14, e1002546.	5.6	57
27	Separate Processing of Different Global-Motion Structures in Visual Cortex Is Revealed by fMRI. Current Biology, 2005, 15, 2027-2032.	3.9	56
28	Perceptual learning. Current Biology, 2010, 20, R46-R48.	3.9	56
29	Two-stage model in perceptual learning: toward a unified theory. Annals of the New York Academy of Sciences, 2014, 1316, 18-28.	3.8	56
30	Resetting capacity limitations revealed by long-lasting elimination of attentional blink through training. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12242-12247.	7.1	55
31	Location specific sleep spindle activity in the early visual areas and perceptual learning. Vision Research, 2014, 99, 162-171.	1.4	55
32	Two cases requiring external reinforcement in perceptual learning. Journal of Vision, 2006, 6, 9.	0.3	54
33	Interference and feature specificity in visual perceptual learning. Vision Research, 2009, 49, 2611-2623.	1.4	52
34	Consolidation and reconsolidation share behavioural and neurochemical mechanisms. Nature Human Behaviour, 2018, 2, 507-513.	12.0	50
35	White matter in the older brain is more plastic than in the younger brain. Nature Communications, 2014, 5, 5504.	12.8	48
36	Requirement for high-level processing in subliminal learning. Current Biology, 2005, 15, R753-R755.	3.9	47

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37	Real-Time Strategy Video Game Experience and Visual Perceptual Learning. <i>Journal of Neuroscience</i> , 2015, 35, 10485-10492.	3.6	47
38	Seeing what is not there shows the costs of perceptual learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9080-9085.	7.1	44
39	Effect of spatial distance to the task stimulus on task-irrelevant perceptual learning of static Gabors. <i>Journal of Vision</i> , 2007, 7, 2.	0.3	40
40	When attention interrupts learning: Inhibitory effects of attention on TIPL. <i>Vision Research</i> , 2009, 49, 2586-2590.	1.4	37
41	Decoding Reveals Plasticity in V3A as a Result of Motion Perceptual Learning. <i>PLoS ONE</i> , 2012, 7, e44003.	2.5	37
42	Roles of attention in perceptual learning from perspectives of psychophysics and animal learning. <i>Learning and Behavior</i> , 2009, 37, 126-132.	1.0	33
43	Neuroimaging Evidence for 2 Types of Plasticity in Association with Visual Perceptual Learning. <i>Cerebral Cortex</i> , 2016, 26, 3681-3689.	2.9	29
44	Perceptual Learning and Aging: Improved Performance for Low-Contrast Motion Discrimination. <i>Frontiers in Psychology</i> , 2013, 4, 66.	2.1	26
45	Age-Related Declines of Stability in Visual Perceptual Learning. <i>Current Biology</i> , 2014, 24, 2926-2929.	3.9	23
46	Category-Induced Transfer of Visual Perceptual Learning. <i>Current Biology</i> , 2019, 29, 1374-1378.e3.	3.9	23
47	Task Attention Facilitates Learning of Task-Irrelevant Stimuli. <i>PLoS ONE</i> , 2012, 7, e35946.	2.5	22
48	Reward does not facilitate visual perceptual learning until sleep occurs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 959-968.	7.1	21
49	Task-Dependent Changes of the Psychophysical Motion-Tuning Functions in the Course of Perceptual Learning. <i>Perception</i> , 2004, 33, 1139-1147.	1.2	20
50	The first-night effect suppresses the strength of slow-wave activity originating in the visual areas during sleep. <i>Vision Research</i> , 2014, 99, 154-161.	1.4	20
51	Optimization of perceptual learning: Effects of task difficulty and external noise in older adults. <i>Vision Research</i> , 2014, 99, 37-45.	1.4	20
52	Supervised Learning Occurs in Visual Perceptual Learning of Complex Natural Images. <i>Current Biology</i> , 2020, 30, 2995-3000.e3.	3.9	20
53	Frequent Video Game Players Resist Perceptual Interference. <i>PLoS ONE</i> , 2015, 10, e0120011.	2.5	19
54	Feature-Specific Awake Reactivation in Human V1 after Visual Training. <i>Journal of Neuroscience</i> , 2018, 38, 9648-9657.	3.6	17

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55	Fundamental Differences in Visual Perceptual Learning between Children and Adults. <i>Current Biology</i> , 2021, 31, 427-432.e5.	3.9	15
56	Recent progress in perceptual learning research. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2012, 3, 293-299.	2.8	14
57	Visual perceptual learning by operant conditioning training follows rules of contingency. <i>Visual Cognition</i> , 2015, 23, 147-160.	1.6	14
58	Post-training TMS abolishes performance improvement and releases future learning from interference. <i>Communications Biology</i> , 2019, 2, 320.	4.4	14
59	Perceptual learning: Functions, mechanisms, and applications. <i>Vision Research</i> , 2009, 49, 2531-2534.	1.4	13
60	Monocular deprivation boosts long-term visual plasticity. <i>Current Biology</i> , 2012, 22, R291-R292.	3.9	13
61	Trained-feature-specific offline learning by sleep in an orientation detection task. <i>Journal of Vision</i> , 2019, 19, 12.	0.3	12
62	Role of endogenous and exogenous attention in task-relevant visual perceptual learning. <i>PLoS ONE</i> , 2020, 15, e0237912.	2.5	12
63	Early Visual Cortex Stimulation Modifies Well-Consolidated Perceptual Gains. <i>Cerebral Cortex</i> , 2021, 31, 138-146.	2.9	11
64	Reward eliminates retrieval-induced forgetting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17326-17329.	7.1	10
65	The DecNef collection, fMRI data from closed-loop decoded neurofeedback experiments. <i>Scientific Data</i> , 2021, 8, 65.	5.3	9
66	Dual mechanisms governing reward-driven perceptual learning. <i>F1000Research</i> , 2015, 4, 764.	1.6	6
67	Selectiveness of the exposure-based perceptual learning: What to learn and what not to learn. <i>Learning &amp; Perception</i> , 2009, 1, 89-98.	2.4	6
68	Perceptual learning of task-irrelevant features depends on the sensory context. <i>Scientific Reports</i> , 2019, 9, 1666.	3.3	5
69	Visual perceptual learning of a primitive feature in human V1/V2 as a result of unconscious processing, revealed by decoded functional MRI neurofeedback (DecNef). <i>Journal of Vision</i> , 2021, 21, 24.	0.3	5
70	Can attenuation of attentional blink also evoke removal of repetition blindness?. <i>Vision Research</i> , 2014, 99, 141-147.	1.4	4
71	Coregistration of magnetic resonance spectroscopy and polysomnography for sleep analysis in human subjects. <i>STAR Protocols</i> , 2021, 2, 100974.	1.2	4
72	Preference suppression caused by misattribution of task-irrelevant subliminal motion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3443-3448.	2.6	2

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73	Is perceptual learning associated with changes in a sensory region?. F1000 Biology Reports, 2012, 4, 24.	4.0	2
74	Neuroscience: When perceptual learning occurs. Nature Human Behaviour, 2017, 1, .	12.0	2
75	Effects of stimulus and task structure on temporal perceptual learning. Scientific Reports, 2021, 11, 668.	3.3	2
76	A behavioral training protocol using visual perceptual learning to improve a visual skill. STAR Protocols, 2021, 2, 100240.	1.2	1
77	V3A takes over a job of MT+ after training on a visual task. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6092-6093.	7.1	0
78	fMRI neurofeedback for perception and attention. , 2021, , 85-105.		0
79	The facilitation of learning and memory by sleep. , 2021, , .		0