

Naotsugu Tsuchiya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

4,472
citations

28
h-index

66
g-index

151
ext. papers

5,261
ext. citations

6
avg, IF

5.93
L-index

#	Paper	IF	Citations
104	Unconscious Visual Working Memory: a critical review and Bayesian meta-analysis.. <i>Neuroscience and Biobehavioral Reviews</i> , 2022 , 104618	9	0
103	Enriched category as a model of qualia structure based on similarity judgements.. <i>Consciousness and Cognition</i> , 2022 , 101, 103319	2.6	0
102	Emergence of Integrated Information at Macro Timescales in Real Neural Recordings. <i>Entropy</i> , 2022 , 24, 625	2.8	
101	Divided attention in the tactile modality. <i>Attention, Perception, and Psychophysics</i> , 2021 , 1	2	
100	A relational approach to consciousness: categories of level and contents of consciousness. <i>Neuroscience of Consciousness</i> , 2021 , 2021, niab034	3.3	3
99	Steady state evoked potential (SSEP) responses in the primary and secondary somatosensory cortices of anesthetized cats: Nonlinearity characterized by harmonic and intermodulation frequencies. <i>PLoS ONE</i> , 2021 , 16, e0240147	3.7	0
98	Blocking facial mimicry during binocular rivalry modulates visual awareness of faces with a neutral expression. <i>Scientific Reports</i> , 2021 , 11, 9972	4.9	4
97	Predicting lapses of attention with sleep-like slow waves. <i>Nature Communications</i> , 2021 , 12, 3657	17.4	9
96	Growing evidence for separate neural mechanisms for attention and consciousness. <i>Attention, Perception, and Psychophysics</i> , 2021 , 83, 558-576	2	5
95	Reasonable criteria for functionalists; scarce criteria from phenomenological perspective. <i>Cognitive Neuroscience</i> , 2021 , 12, 95-96	1.7	
94	Integrated information structure collapses with anesthetic loss of conscious arousal in <i>Drosophila melanogaster</i> . <i>PLoS Computational Biology</i> , 2021 , 17, e1008722	5	8
93	Information flow in the rat thalamo-cortical system: spontaneous vs. stimulus-evoked activities. <i>Scientific Reports</i> , 2021 , 11, 19252	4.9	
92	Conscious perception of flickering stimuli in binocular rivalry and continuous flash suppression is not affected by tACS-induced SSR modulation. <i>Consciousness and Cognition</i> , 2020 , 82, 102953	2.6	
91	Evidence accumulation clustering using combinations of features. <i>MethodsX</i> , 2020 , 7, 100916	1.9	2
90	A multiple-response frequency-tagging paradigm measures graded changes in consciousness during perceptual filling-in. <i>Neuroscience of Consciousness</i> , 2020 , 2020, niaa002	3.3	5
89	A reply to "the unfolding argument": Beyond functionalism/behaviorism and towards a science of causal structure theories of consciousness. <i>Consciousness and Cognition</i> , 2020 , 79, 102877	2.6	15
88	General anesthesia reduces complexity and temporal asymmetry of the informational structures derived from neural recordings in <i>Drosophila</i> . <i>Physical Review Research</i> , 2020 , 2,	3.9	7

87	Motion-induced blindness as a tool to measure attentional biases and the link to attention-deficit/hyperactivity traits. <i>Journal of Experimental Psychology: General</i> , 2020 , 149, 1628-1643	4.7	1
86	The SSVEP tracks attention, not consciousness, during perceptual filling-in. <i>ELife</i> , 2020 , 9,	8.9	5
85	A general spectral decomposition of causal influences applied to integrated information. <i>Journal of Neuroscience Methods</i> , 2020 , 330, 108443	3	8
84	The Dream Catcher experiment: blinded analyses failed to detect markers of dreaming consciousness in EEG spectral power. <i>Neuroscience of Consciousness</i> , 2020 , 2020, niaa006	3.3	8
83	Detecting (Un)seen Change: The Neural Underpinnings of (Un)conscious Prediction Errors. <i>Frontiers in Systems Neuroscience</i> , 2020 , 14, 541670	3.5	1
82	Third-Eye Rivalry. <i>I-Perception</i> , 2020 , 11, 2041669520927722	1.2	1
81	Does the Mind Wander When the Brain Takes a Break? Local Sleep in Wakefulness, Attentional Lapses and Mind-Wandering. <i>Frontiers in Neuroscience</i> , 2019 , 13, 949	5.1	21
80	From intermodulation components to visual perception and cognition-a review. <i>NeuroImage</i> , 2019 , 199, 480-494	7.9	18
79	Expectation and attention increase the integration of top-down and bottom-up signals in perception through different pathways. <i>PLoS Biology</i> , 2019 , 17, e3000233	9.7	25
78	Metacognitive Accuracy Improves With the Perceptual Learning of a Low- but Not High-Level Face Property. <i>Frontiers in Psychology</i> , 2019 , 10, 1712	3.4	2
77	Extensive training with feedback reduces attentional demand in visual feature binding. <i>Journal of Vision</i> , 2019 , 19, 185a	0.4	
76	Mathematics and the Brain: A Category Theoretical Approach to Go Beyond the Neural Correlates of Consciousness. <i>Entropy</i> , 2019 , 21, 1234	2.8	7
75	Sustained conscious access to incidental memories in RSVP. <i>Attention, Perception, and Psychophysics</i> , 2019 , 81, 188-204	2	2
74	Conscious machines: Defining questions. <i>Science</i> , 2018 , 359, 400	33.3	17
73	Conscious access in the near absence of attention: critical extensions on the dual-task paradigm. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	30
72	Isoflurane Impairs Low-Frequency Feedback but Leaves High-Frequency Feedforward Connectivity Intact in the Fly Brain. <i>ENeuro</i> , 2018 , 5,	3.9	13
71	Attention periodically samples competing stimuli during binocular rivalry. <i>ELife</i> , 2018 , 7,	8.9	5
70	The Effect of Common Signals on Power, Coherence and Granger Causality: Theoretical Review, Simulations, and Empirical Analysis of Fruit Fly LFPs Data. <i>Frontiers in Systems Neuroscience</i> , 2018 , 12, 30	3.5	6

69	Geometry of Information Integration. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 3-17	0.2	0
68	Deep Brain Stimulation for Parkinson's disease changes perception in the Rubber Hand Illusion. <i>Scientific Reports</i> , 2018 , 8, 13842	4.9	5
67	Parkinson's disease alters multisensory perception: Insights from the Rubber Hand Illusion. <i>Neuropsychologia</i> , 2017 , 97, 38-45	3.2	21
66	What is it like to be a bat? pathway to the answer from the integrated information theory. <i>Philosophy Compass</i> , 2017 , 12, e12407	1	4
65	Are the Neural Correlates of Consciousness in the Front or in the Back of the Cerebral Cortex? Clinical and Neuroimaging Evidence. <i>Journal of Neuroscience</i> , 2017 , 37, 9603-9613	6.6	192
64	Optokinetic nystagmus reflects perceptual directions in the onset binocular rivalry in Parkinson's disease. <i>PLoS ONE</i> , 2017 , 12, e0173707	3.7	10
63	Intracranial markers of conscious face perception in humans. <i>NeuroImage</i> , 2017 , 162, 322-343	7.9	14
62	Simulated forward and backward self motion, based on realistic parameters, causes motion induced blindness. <i>Scientific Reports</i> , 2017 , 7, 9767	4.9	2
61	Are we underestimating the richness of visual experience?. <i>Neuroscience of Consciousness</i> , 2017 , 2017, niw023	3.3	32
60	Conscious Perception as Integrated Information Patterns in Human Electroencephalography. <i>ENeuro</i> , 2017 , 4,	3.9	18
59	Neural markers of predictive coding under perceptual uncertainty revealed with Hierarchical Frequency Tagging. <i>ELife</i> , 2017 , 6,	8.9	39
58	Author response: Neural markers of predictive coding under perceptual uncertainty revealed with Hierarchical Frequency Tagging 2017 ,		2
57	The Relationship Between Consciousness and Top-Down Attention 2016 , 71-91		13
56	Frequency-dependent spatiotemporal profiles of visual responses recorded with subdural ECoG electrodes in awake monkeys: Differences between high- and low-frequency activity. <i>NeuroImage</i> , 2016 , 124, 557-572	7.9	13
55	No-Report and Report-Based Paradigms Jointly Unravel the NCC: Response to Overgaard and Fazekas. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 242-243	14	12
54	Using category theory to assess the relationship between consciousness and integrated information theory. <i>Neuroscience Research</i> , 2016 , 107, 1-7	2.9	31
53	Measuring Integrated Information from the Decoding Perspective. <i>PLoS Computational Biology</i> , 2016 , 12, e1004654	5	64
52	Local Versus Global Effects of Isoflurane Anesthesia on Visual Processing in the Fly Brain. <i>ENeuro</i> , 2016 , 3,	3.9	11

51	Unified framework for information integration based on information geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14817-14822	11.5	66
50	Large Capacity of Conscious Access for Incidental Memories in Natural Scenes. <i>Psychological Science</i> , 2016 , 27, 1266-77	7.9	10
49	Preferential attention to animals and people is independent of the amygdala. <i>Social Cognitive and Affective Neuroscience</i> , 2015 , 10, 371-80	4	16
48	Semantic Wavelet-Induced Frequency-Tagging (SWIFT) Periodically Activates Category Selective Areas While Steadily Activating Early Visual Areas. <i>PLoS ONE</i> , 2015 , 10, e0144858	3.7	10
47	No-Report Paradigms: Extracting the True Neural Correlates of Consciousness. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 757-770	14	243
46	De-confounding the neural constitution of phenomenal consciousness from attention, report and memory. <i>Advances in Consciousness Research</i> , 2015 , 81-103		2
45	Introduction to research topic: attention and consciousness in different senses. <i>Frontiers in Psychology</i> , 2013 , 4, 249	3.4	14
44	Consciousness in humans and non-human animals: recent advances and future directions. <i>Frontiers in Psychology</i> , 2013 , 4, 625	3.4	123
43	Qualia. <i>Current Biology</i> , 2012 , 22, R392-6	6.3	30
42	Attention and consciousness: related yet different. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 103-5	14	48
41	Abnormal social reward processing in autism as indexed by pupillary responses to happy faces. <i>Journal of Neurodevelopmental Disorders</i> , 2012 , 4, 17	4.6	75
40	Top-down attention and consciousness: comment on Cohen et al. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 527; author reply 528	14	17
39	Spatial attention is attracted in a sustained fashion toward singular points in the optic flow. <i>PLoS ONE</i> , 2012 , 7, e41040	3.7	10
38	The role of risk aversion in non-conscious decision making. <i>Frontiers in Psychology</i> , 2012 , 3, 50	3.4	9
37	Introduction to research topic - binocular rivalry: a gateway to studying consciousness. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 263	3.3	17
36	Processing of facial emotion in the human fusiform gyrus. <i>Journal of Cognitive Neuroscience</i> , 2012 , 24, 1358-70	3.1	56
35	Manifestation of ocular-muscle EMG contamination in human intracranial recordings. <i>NeuroImage</i> , 2011 , 54, 213-33	7.9	93
34	A category-specific response to animals in the right human amygdala. <i>Nature Neuroscience</i> , 2011 , 14, 1247-9	25.5	97

33	Is recurrent processing necessary and/or sufficient for consciousness?. <i>Cognitive Neuroscience</i> , 2010 , 1, 230-1	1.7	1
32	Opposing effects of attention and consciousness on afterimages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8883-8	11.5	105
31	Reading the mind's eye: decoding category information during mental imagery. <i>NeuroImage</i> , 2010 , 50, 818-25	7.9	211
30	Consciousness and attention: on sufficiency and necessity. <i>Frontiers in Psychology</i> , 2010 , 1, 217	3.4	124
29	Intact rapid detection of fearful faces in the absence of the amygdala. <i>Nature Neuroscience</i> , 2009 , 12, 1224-5	25.5	201
28	The Relationship Between Consciousness and Attention 2009 , 63-77		7
27	Response to Mole: Subjects can attend to completely invisible objects. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 44-45	14	5
26	Spatial attention increases performance but not subjective confidence in a discrimination task. <i>Journal of Vision</i> , 2008 , 8, 7.1-10	0.4	60
25	Decoding face information in time, frequency and space from direct intracranial recordings of the human brain. <i>PLoS ONE</i> , 2008 , 3, e3892	3.7	83
24	Contrast thresholds for component motion with full and poor attention. <i>Journal of Vision</i> , 2007 , 7, 1	0.4	11
23	Orienting to social stimuli differentiates social cognitive impairment in autism and schizophrenia. <i>Neuropsychologia</i> , 2007 , 45, 2580-8	3.2	148
22	Phenomenology without conscious access is a form of consciousness without top-down attention. <i>Behavioral and Brain Sciences</i> , 2007 , 30, 509-510	0.9	10
21	Attention and consciousness: two distinct brain processes. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 16-22	14	692
20	Emotion and consciousness. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 158-67	14	127
19	The scope and limits of top-down attention in unconscious visual processing. <i>Current Biology</i> , 2006 , 16, 2332-6	6.3	118
18	Depth of interocular suppression associated with continuous flash suppression, flash suppression, and binocular rivalry. <i>Journal of Vision</i> , 2006 , 6, 1068-78	0.4	131
17	Continuous flash suppression reduces negative afterimages. <i>Nature Neuroscience</i> , 2005 , 8, 1096-101	25.5	622
16	Working memory and fear conditioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1399-404	11.5	134

15	What can we experience and report on a rapidly presented image? Intersubjective measures of specificity of freely reported contents of consciousness. <i>F1000Research</i> ,11, 69	3.6	1
14	Steady state evoked potential (SSEP) responses in the primary and secondary somatosensory cortices of anesthetized cats: nonlinearity characterized by harmonic and intermodulation frequencies		1
13	Applying Yoneda's lemma to consciousness research: categories of level and contents of consciousness		5
12	Evidence accumulation clustering using combinations of features		2
11	A reply to "The unfolding argument" Beyond functionalism/behaviorism and towards a truer science of causal structural theories of consciousness		4
10	Attention periodically samples competing stimuli during binocular rivalry		1
9	Integrated information structure collapses with anesthetic loss of conscious arousal in <i>Drosophila melanogaster</i>		
8	Predicting lapses of attention with sleep-like slow waves		1
7	Learning improves conscious access at the bottom, but not the top: Reverse hierarchical effects in perceptual learning and metacognition		1
6	A neural representation of invisibility: when stimulus-specific neural activity negatively correlates with conscious experience		1
5	Team flow is a unique brain state associated with enhanced information integration and neural synchrony		2
4	SURPRISING THREATS ACCELERATE EVIDENCE ACCUMULATION FOR CONSCIOUS PERCEPTION		2
3	The Dream Catcher experiment: Blinded analyses disconfirm markers of dreaming consciousness in EEG spectral power		2
2	Mathematics and the brain – category theoretic approach to go beyond the neural correlates of consciousness		2
1	Optokinetic nystagmus reflects perceptual directions in the onset binocular rivalry in Parkinson's disease		1