

Naotsugu Tsuchiya

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

5,996
citations

159525

30
h-index

82499

72
g-index

151
all docs

151
docs citations

151
times ranked

4902
citing authors

#	ARTICLE	IF	CITATIONS
1	Attention and consciousness: two distinct brain processes. Trends in Cognitive Sciences, 2007, 11, 16-22.	4.0	831
2	Continuous flash suppression reduces negative afterimages. Nature Neuroscience, 2005, 8, 1096-1101.	7.1	726
3	Are the Neural Correlates of Consciousness in the Front or in the Back of the Cerebral Cortex? Clinical and Neuroimaging Evidence. Journal of Neuroscience, 2017, 37, 9603-9613.	1.7	360
4	No-Report Paradigms: Extracting the True Neural Correlates of Consciousness. Trends in Cognitive Sciences, 2015, 19, 757-770.	4.0	338
5	Reading the mind's eye: Decoding category information during mental imagery. NeuroImage, 2010, 50, 818-825.	2.1	270
6	Intact rapid detection of fearful faces in the absence of the amygdala. Nature Neuroscience, 2009, 12, 1224-1225.	7.1	218
7	Consciousness in humans and non-human animals: recent advances and future directions. Frontiers in Psychology, 2013, 4, 625.	1.1	170
8	Emotion and consciousness. Trends in Cognitive Sciences, 2007, 11, 158-167.	4.0	169
9	Orienting to social stimuli differentiates social cognitive impairment in autism and schizophrenia. Neuropsychologia, 2007, 45, 2580-2588.	0.7	168
10	Depth of interocular suppression associated with continuous flash suppression, flash suppression, and binocular rivalry. Journal of Vision, 2006, 6, 6.	0.1	167
11	Consciousness and Attention: On Sufficiency and Necessity. Frontiers in Psychology, 2010, 1, 217.	1.1	160
12	Working memory and fear conditioning. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1399-1404.	3.3	149
13	The Scope and Limits of Top-Down Attention in Unconscious Visual Processing. Current Biology, 2006, 16, 2332-2336.	1.8	138
14	A category-specific response to animals in the right human amygdala. Nature Neuroscience, 2011, 14, 1247-1249.	7.1	129
15	Manifestation of ocular-muscle EMG contamination in human intracranial recordings. NeuroImage, 2011, 54, 213-233.	2.1	125
16	Opposing effects of attention and consciousness on afterimages. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8883-8888.	3.3	123
17	Measuring Integrated Information from the Decoding Perspective. PLoS Computational Biology, 2016, 12, e1004654.	1.5	107
18	Decoding Face Information in Time, Frequency and Space from Direct Intracranial Recordings of the Human Brain. PLoS ONE, 2008, 3, e3892.	1.1	94

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19	Unified framework for information integration based on information geometry. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14817-14822.	3.3	92
20	Abnormal social reward processing in autism as indexed by pupillary responses to happy faces. Journal of Neurodevelopmental Disorders, 2012, 4, 17.	1.5	91
21	Spatial attention increases performance but not subjective confidence in a discrimination task. Journal of Vision, 2008, 8, 7.	0.1	82
22	Predicting lapses of attention with sleep-like slow waves. Nature Communications, 2021, 12, 3657.	5.8	80
23	Processing of Facial Emotion in the Human Fusiform Gyrus. Journal of Cognitive Neuroscience, 2012, 24, 1358-1370.	1.1	71
24	Does the Mind Wander When the Brain Takes a Break? Local Sleep in Wakefulness, Attentional Lapses and Mind-Wandering. Frontiers in Neuroscience, 2019, 13, 949.	1.4	65
25	Attention and consciousness: related yet different. Trends in Cognitive Sciences, 2012, 16, 103-105.	4.0	56
26	Neural markers of predictive coding under perceptual uncertainty revealed with Hierarchical Frequency Tagging. ELife, 2017, 6, .	2.8	49
27	Expectation and attention increase the integration of top-down and bottom-up signals in perception through different pathways. PLoS Biology, 2019, 17, e3000233.	2.6	47
28	Using category theory to assess the relationship between consciousness and integrated information theory. Neuroscience Research, 2016, 107, 1-7.	1.0	45
29	Are we underestimating the richness of visual experience?. Neuroscience of Consciousness, 2017, 2017, niw023.	1.4	43
30	Conscious access in the near absence of attention: critical extensions on the dual-task paradigm. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170352.	1.8	39
31	Qualia. Current Biology, 2012, 22, R392-R396.	1.8	36
32	From intermodulation components to visual perception and cognition-a review. NeuroImage, 2019, 199, 480-494.	2.1	33
33	Introduction to Research Topic "Binocular Rivalry: A Gateway to Studying Consciousness. Frontiers in Human Neuroscience, 2012, 6, 263.	1.0	30
34	Conscious Perception as Integrated Information Patterns in Human Electroencephalography. ENeuro, 2017, 4, ENEURO.0085-17.2017.	0.9	28
35	Parkinson's disease alters multisensory perception: Insights from the Rubber Hand Illusion. Neuropsychologia, 2017, 97, 38-45.	0.7	25
36	The Relationship Between Consciousness and Top-Down Attention. , 2016, , 71-91.		23

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37	Preferential attention to animals and people is independent of the amygdala. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 371-380.	1.5	22
38	Conscious machines: Defining questions. <i>Science</i> , 2018, 359, 400-400.	6.0	22
39	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.	0.8	22
40	Isoflurane Impairs Low-Frequency Feedback but Leaves High-Frequency Feedforward Connectivity Intact in the Fly Brain. <i>ENeuro</i> , 2018, 5, ENEURO.0329-17.2018.	0.9	21
41	Top-down attention and consciousness: comment on Cohen et al.. <i>Trends in Cognitive Sciences</i> , 2012, 16, 527.	4.0	18
42	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.	4.0	18
43	Local Versus Global Effects of Isoflurane Anesthesia on Visual Processing in the Fly Brain. <i>ENeuro</i> , 2016, 3, ENEURO.0116-16.2016.	0.9	18
44	Attention periodically samples competing stimuli during binocular rivalry. <i>ELife</i> , 2018, 7, .	2.8	18
45	The Role of Risk Aversion in Non-Conscious Decision Making. <i>Frontiers in Psychology</i> , 2012, 3, 50.	1.1	17
46	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.	2.1	17
47	Intracranial markers of conscious face perception in humans. <i>NeuroImage</i> , 2017, 162, 322-343.	2.1	17
48	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, .	1.3	17
49	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.	1.4	16
50	The Relationship Between Consciousness and Attention. , 2009, , 63-77.		15
51	Introduction to research topic: attention and consciousness in different senses. <i>Frontiers in Psychology</i> , 2013, 4, 249.	1.1	15
52	Large Capacity of Conscious Access for Incidental Memories in Natural Scenes. <i>Psychological Science</i> , 2016, 27, 1266-1277.	1.8	15
53	Optokinetic nystagmus reflects perceptual directions in the onset binocular rivalry in Parkinson's disease. <i>PLoS ONE</i> , 2017, 12, e0173707.	1.1	15
54	Growing evidence for separate neural mechanisms for attention and consciousness. <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 558-576.	0.7	15

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55	Integrated information structure collapses with anesthetic loss of conscious arousal in <i>Drosophila melanogaster</i> . <i>PLoS Computational Biology</i> , 2021, 17, e1008722.	1.5	15
56	Beyond traditional sleep scoring: Massive feature extraction and data-driven clustering of sleep time series. <i>Sleep Medicine</i> , 2022, 98, 39-52.	0.8	15
57	Contrast thresholds for component motion with full and poor attention. <i>Journal of Vision</i> , 2007, 7, 1.	0.1	14
58	Spatial Attention Is Attracted in a Sustained Fashion toward Singular Points in the Optic Flow. <i>PLoS ONE</i> , 2012, 7, e41040.	1.1	14
59	The SSVEP tracks attention, not consciousness, during perceptual filling-in. <i>ELife</i> , 2020, 9, .	2.8	14
60	Phenomenology without conscious access is a form of consciousness without top-down attention. <i>Behavioral and Brain Sciences</i> , 2007, 30, 509-510.	0.4	13
61	Semantic Wavelet-Induced Frequency-Tagging (SWIFT) Periodically Activates Category Selective Areas While Steadily Activating Early Visual Areas. <i>PLoS ONE</i> , 2015, 10, e0144858.	1.1	12
62	Mathematics and the Brain: A Category Theoretical Approach to Go Beyond the Neural Correlates of Consciousness. <i>Entropy</i> , 2019, 21, 1234.	1.1	12
63	A general spectral decomposition of causal influences applied to integrated information. <i>Journal of Neuroscience Methods</i> , 2020, 330, 108443.	1.3	12
64	A relational approach to consciousness: categories of level and contents of consciousness. <i>Neuroscience of Consciousness</i> , 2021, 2021, niab034.	1.4	12
65	“What is it like to be a bat?” a pathway to the answer from the integrated information theory. <i>Philosophy Compass</i> , 2017, 12, e12407.	0.7	9
66	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.	1.2	9
67	Blocking facial mimicry during binocular rivalry modulates visual awareness of faces with a neutral expression. <i>Scientific Reports</i> , 2021, 11, 9972.	1.6	8
68	Team Flow Is a Unique Brain State Associated with Enhanced Information Integration and Interbrain Synchrony. <i>ENeuro</i> , 2021, 8, ENEURO.0133-21.2021.	0.9	7
69	Response to Mole: Subjects can attend to completely invisible objects. <i>Trends in Cognitive Sciences</i> , 2008, 12, 44-45.	4.0	6
70	Deep Brain Stimulation for Parkinson’s disease changes perception in the Rubber Hand Illusion. <i>Scientific Reports</i> , 2018, 8, 13842.	1.6	6
71	A multiple-response frequency-tagging paradigm measures graded changes in consciousness during perceptual filling-in. <i>Neuroscience of Consciousness</i> , 2020, 2020, niaa002.	1.4	6
72	De-confounding the neural constitution of phenomenal consciousness from attention, report and memory. <i>Advances in Consciousness Research</i> , 2015, , 81-103.	0.2	6

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73	Detecting (Un)seen Change: The Neural Underpinnings of (Un)conscious Prediction Errors. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 541670.	1.2	5
74	Enriched category as a model of qualia structure based on similarity judgements. <i>Consciousness and Cognition</i> , 2022, 101, 103319.	0.8	5
75	How much can we differentiate at a brief glance: revealing the truer limit in conscious contents through the massive report paradigm (MRP). <i>Royal Society Open Science</i> , 2022, 9, .	1.1	5
76	Simulated forward and backward self motion, based on realistic parameters, causes motion induced blindness. <i>Scientific Reports</i> , 2017, 7, 9767.	1.6	4
77	Geometry of Information Integration. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 3-17.	0.1	3
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.	1.1	3
79	Sustained conscious access to incidental memories in RSVP. <i>Attention, Perception, and Psychophysics</i> , 2019, 81, 188-204.	0.7	3
80	Evidence accumulation clustering using combinations of features. <i>MethodsX</i> , 2020, 7, 100916.	0.7	3
81	What can we experience and report on a rapidly presented image? Intersubjective measures of specificity of freely reported contents of consciousness. <i>F1000Research</i> , 0, 11, 69.	0.8	3
82	Unconscious Visual Working Memory: A critical review and Bayesian meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 136, 104618.	2.9	3
83	Is recurrent processing necessary and/or sufficient for consciousness?. <i>Cognitive Neuroscience</i> , 2010, 1, 230-231.	0.6	2
84	Visual consciousness tracked with direct intracranial recording from early visual cortex in humans. <i>Nature Precedings</i> , 2011, , .	0.1	2
85	Reasonable criteria for functionalists; scarce criteria from phenomenological perspective. <i>Cognitive Neuroscience</i> , 2021, 12, 95-96.	0.6	2
86	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.	1.5	2
87	Neural and computational processes of accelerated perceptual awareness and decisions: A 7T fMRI study. <i>Human Brain Mapping</i> , 2022, 43, 3873-3886.	1.9	2
88	Emergence of Integrated Information at Macro Timescales in Real Neural Recordings. <i>Entropy</i> , 2022, 24, 625.	1.1	2
89	Third-Eye Rivalry. <i>I-Perception</i> , 2020, 11, 204166952092772.	0.8	1
90	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.	1.1	1

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91	Information flow in the rat thalamo-cortical system: spontaneous vs. stimulus-evoked activities. Scientific Reports, 2021, 11, 19252.	1.6	1
92	Surprising Threats Accelerate Conscious Perception. Frontiers in Behavioral Neuroscience, 2022, 16, .	1.0	1
93	Relationship between selective visual attention and visual consciousness. , 2011, , .		0
94	Conscious perception of flickering stimuli in binocular rivalry and continuous flash suppression is not affected by tACS-induced SSR modulation. Consciousness and Cognition, 2020, 82, 102953.	0.8	0
95	Divided attention in the tactile modality. Attention, Perception, and Psychophysics, 2021, , 1.	0.7	0
96	Attentional modulation of visual motion perception using novel wavelet stimuli. Journal of Vision, 2010, 1, 84-84.	0.1	0
97	Extensive training with feedback reduces attentional demand in visual feature binding. Journal of Vision, 2019, 19, 185a.	0.1	0