

Hakwan Lau

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.

127
papers

5,159
citations

35
h-index

71
g-index

143
ext. papers

6,542
ext. citations

7.3
avg, IF

6.37
L-index

#	Paper	IF	Citations
127	Real-Time Functional MRI in the Treatment of Mental Health Disorders.. <i>Annual Review of Clinical Psychology</i> , 2022 ,	20.5	1
126	Putting the "mental" back in "mental disorders": a perspective from research on fear and anxiety.. <i>Molecular Psychiatry</i> , 2022 ,	15.1	7
125	Conducting decoded neurofeedback studies. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 838-848		7
124	Ethical considerations for fMRI neurofeedback 2021 , 315-331		
123	Tuned inhibition in perceptual decision-making circuits can explain seemingly suboptimal confidence behavior. <i>PLoS Computational Biology</i> , 2021 , 17, e1008779	5	6
122	Is blindsight possible under signal detection theory? Comment on Phillips (2021). <i>Psychological Review</i> , 2021 , 128, 585-591	6.3	6
121	Transcranial magnetic stimulation alters multivoxel patterns in the absence of overall activity changes. <i>Human Brain Mapping</i> , 2021 , 42, 3804-3820	5.9	3
120	An investigation of how relative precision of target encoding influences metacognitive performance. <i>Attention, Perception, and Psychophysics</i> , 2021 , 83, 512-524	2	2
119	Higher-order theories do just fine. <i>Cognitive Neuroscience</i> , 2021 , 12, 77-78	1.7	1
118	Variable Statistical Structure of Neuronal Spike Trains in Monkey Superior Colliculus. <i>Journal of Neuroscience</i> , 2021 , 41, 3234-3253	6.6	2
117	The DecNef collection, fMRI data from closed-loop decoded neurofeedback experiments. <i>Scientific Data</i> , 2021 , 8, 65	8.2	2
116	Between-subject correlation of heart rate variability predicts movie preferences. <i>PLoS ONE</i> , 2021 , 16, e0247625	3.7	2
115	A little history goes a long way toward understanding why we study consciousness the way we do today. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6976-6984	11.5	14
114	Atypical spatial frequency dependence of visual metacognition among schizophrenia patients. <i>NeuroImage: Clinical</i> , 2020 , 27, 102296	5.3	3
113	A new vista in psychiatric treatment: Using individualized functional connectivity to track symptoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4450-4452	11.5	2
112	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. <i>Frontiers in Neuroscience</i> , 2020 , 14, 255	5.1	4
111	New measures of agency from an adaptive sensorimotor task. <i>PLoS ONE</i> , 2020 , 15, e0244113	3.7	3

110	On the dangers of conflating strong and weak versions of a theory of consciousness. <i>Philosophy and the Mind Sciences</i> , 2020 , 1,	1.5	4
109	A decision-congruent heuristic gives superior metacognitive sensitivity under realistic variance assumptions. <i>Psychological Review</i> , 2020 , 127, 655-671	6.3	6
108	Multivoxel pattern analysis reveals dissociations between subjective fear and its physiological correlates. <i>Molecular Psychiatry</i> , 2020 , 25, 2342-2354	15.1	23
107	Unconscious reinforcement learning of hidden brain states supported by confidence. <i>Nature Communications</i> , 2020 , 11, 4429	17.4	9
106	Seeing consciousness through the lens of memory. <i>Current Biology</i> , 2020 , 30, R1018-R1022	6.3	14
105	Spatiotemporal dynamics of brightness coding in human visual cortex revealed by the temporal context effect. <i>NeuroImage</i> , 2020 , 205, 116277	7.9	4
104	New measures of agency from an adaptive sensorimotor task 2020 , 15, e0244113		
103	New measures of agency from an adaptive sensorimotor task 2020 , 15, e0244113		
102	New measures of agency from an adaptive sensorimotor task 2020 , 15, e0244113		
101	New measures of agency from an adaptive sensorimotor task 2020 , 15, e0244113		
100	Current Status of Neurofeedback for Post-traumatic Stress Disorder: A Systematic Review and the Possibility of Decoded Neurofeedback. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 233	3.3	27
99	Human brain responses to gustatory and food stimuli: A meta-evaluation of neuroimaging meta-analyses. <i>NeuroImage</i> , 2019 , 202, 116111	7.9	9
98	Understanding the Higher-Order Approach to Consciousness. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 754-768	1.4	103
97	Individual susceptibility to TMS affirms the precuneal role in meta-memory upon recollection. <i>Brain Structure and Function</i> , 2019 , 224, 2407-2419	4	13
96	Contributions of anterior cingulate cortex and basolateral amygdala to decision confidence and learning under uncertainty. <i>Nature Communications</i> , 2019 , 10, 4704	17.4	30
95	Visual representations outside of conscious awareness can support sensory preconditioning. <i>Journal of Vision</i> , 2019 , 19, 188	0.4	
94	Subjective confidence judgments for motion direction discrimination are centrally biased despite matched objective performance in the periphery. <i>Journal of Vision</i> , 2019 , 19, 294b	0.4	1
93	Domain-general enhancements of metacognitive ability through adaptive training. <i>Journal of Experimental Psychology: General</i> , 2019 , 148, 51-64	4.7	46

92	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019 , 3, 104-107	12.8	28
91	Subjective inflation: phenomenology& get-rich-quick scheme. <i>Current Opinion in Psychology</i> , 2019 , 29, 49-55	6.2	11
90	Towards an unconscious neural reinforcement intervention for common fears. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3470-3475	11.5	63
89	Domain-General and Domain-Specific Patterns of Activity Supporting Metacognition in Human Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2018 , 38, 3534-3546	6.6	97
88	The effects of neurochemical balance in the anterior cingulate cortex and dorsolateral prefrontal cortex on volitional control under irrelevant distraction. <i>Consciousness and Cognition</i> , 2018 , 59, 104-111	2.6	5
87	Superior colliculus neuronal ensemble activity signals optimal rather than subjective confidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1588-E1597	11.5	48
86	Response. <i>Science</i> , 2018 , 359, 400-402	33.3	11
85	A Role for the Superior Colliculus in Decision Criteria. <i>Neuron</i> , 2018 , 97, 181-194.e6	13.9	49
84	How the Brain Converts Negative Evaluation into Performance Facilitation. <i>Cerebral Cortex</i> , 2018 , 28, 602-611	5.1	2
83	An investigation of detection biases in the unattended periphery during simulated driving. <i>Attention, Perception, and Psychophysics</i> , 2018 , 80, 1325-1332	2	10
82	Inflation versus filling-in: why we feel we see more than we actually do in peripheral vision. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	22
81	Continuous flash suppression and monocular pattern masking impact subjective awareness similarly. <i>Attention, Perception, and Psychophysics</i> , 2018 , 80, 1974-1987	2	4
80	Causal Evidence for Mnemonic Metacognition in Human Precuneus. <i>Journal of Neuroscience</i> , 2018 , 38, 6379-6387	6.6	47
79	Neuroscience: The Key to Consciousness May Not Be under the Streetlight. <i>Current Biology</i> , 2018 , 28, R749-R752	6.3	9
78	Subjective inflation in the unattended periphery in a naturalistic environment. <i>Journal of Vision</i> , 2018 , 18, 530	0.4	
77	Cross-Domain Association in Metacognitive Efficiency Depends on First-Order Task Types. <i>Frontiers in Psychology</i> , 2018 , 9, 2464	3.4	14
76	An Informal Internet Survey on the Current State of Consciousness Science. <i>Frontiers in Psychology</i> , 2018 , 9, 2134	3.4	13
75	The Neurobiology of Reduced Autobiographical Memory Specificity. <i>Trends in Cognitive Sciences</i> , 2018 , 22, 1038-1049	14	19

74	Superior colliculus signals decisions rather than confidence: analysis of single neurons. <i>Journal of Neurophysiology</i> , 2018 , 120, 2614-2629	3.2	10
73	Unconscious Psychological Treatments for Physiological Survival Circuits. <i>Current Opinion in Behavioral Sciences</i> , 2018 , 24, 62-68	4	14
72	Decoded fMRI neurofeedback can induce bidirectional confidence changes within single participants. <i>NeuroImage</i> , 2017 , 149, 323-337	7.9	30
71	Transcranial magnetic stimulation to visual cortex induces suboptimal introspection. <i>Cortex</i> , 2017 , 93, 119-132	3.8	14
70	Limited Cognitive Resources Explain a Trade-Off between Perceptual and Metacognitive Vigilance. <i>Journal of Neuroscience</i> , 2017 , 37, 1213-1224	6.6	18
69	What is consciousness, and could machines have it?. <i>Science</i> , 2017 , 358, 486-492	33.3	240
68	Should a Few Null Findings Falsify Prefrontal Theories of Conscious Perception?. <i>Journal of Neuroscience</i> , 2017 , 37, 9593-9602	6.6	106
67	Six-fold over-representation of graduates from prestigious universities does not necessitate unmeritocratic selection in the faculty hiring process. <i>PLoS ONE</i> , 2017 , 12, e0185900	3.7	3
66	Crucial Role of the Prefrontal Cortex in Conscious Perception 2017 , 129-141		2
65	20 Years of ASSC: are we ready for its coming of age?. <i>Neuroscience of Consciousness</i> , 2017 , 2017, nix0083,3	3.3	1
64	Perceptual confidence neglects decision-incongruent evidence in the brain. <i>Nature Human Behaviour</i> , 2017 , 1,	12.8	53
63	Measuring away an attentional confound?. <i>Neuroscience of Consciousness</i> , 2017 , 2017, nix018	3.3	
62	Investigating Perceptual Confidence in the Superior Colliculus with Multi-Unit Neuronal Recordings. <i>Journal of Vision</i> , 2017 , 17, 741	0.4	
61	Is fear perception special? Evidence at the level of decision-making and subjective confidence. <i>Social Cognitive and Affective Neuroscience</i> , 2016 , 11, 1772-1782	4	7
60	Heuristic use of perceptual evidence leads to dissociation between performance and metacognitive sensitivity. <i>Attention, Perception, and Psychophysics</i> , 2016 , 78, 923-37	2	53
59	Who's afraid of response bias?. <i>Neuroscience of Consciousness</i> , 2016 , 2016,	3.3	24
58	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. <i>Nature Human Behaviour</i> , 2016 , 1,	12.8	62
57	Methodological Considerations to Strengthen Studies of Peripheral Vision. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 642-643	14	4

56	Multivoxel neurofeedback selectively modulates confidence without changing perceptual performance. <i>Nature Communications</i> , 2016 , 7, 13669	17.4	82
55	The signal processing architecture underlying subjective reports of sensory awareness. <i>Neuroscience of Consciousness</i> , 2016 , 2016,	3.3	56
54	What Type of Awareness Does Binocular Rivalry Assess?. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 719-720	14	15
53	A decisional account of subjective inflation of visual perception at the periphery. <i>Attention, Perception, and Psychophysics</i> , 2015 , 77, 258-71	2	30
52	Reporting on the temporal properties of visual events masked with continuous flash suppression. <i>Consciousness and Cognition</i> , 2015 , 36, 154-68	2.6	
51	Does perceptual confidence facilitate cognitive control?. <i>Attention, Perception, and Psychophysics</i> , 2015 , 77, 1295-306	2	54
50	There are things that we know that we know, and there are things that we do not know we do not know: Confidence in decision-making. <i>Neuroscience and Biobehavioral Reviews</i> , 2015 , 55, 88-97	9	67
49	Confidence Leak in Perceptual Decision Making. <i>Psychological Science</i> , 2015 , 26, 1664-80	7.9	76
48	Action-specific disruption of perceptual confidence. <i>Psychological Science</i> , 2015 , 26, 89-98	7.9	87
47	Manipulation of working memory contents selectively impairs metacognitive sensitivity in a concurrent visual discrimination task. <i>Neuroscience of Consciousness</i> , 2015 , 2015, niv002	3.3	25
46	Controlling for performance capacity confounds in neuroimaging studies of conscious awareness. <i>Neuroscience of Consciousness</i> , 2015 , 2015, niv008	3.3	10
45	Human observers have optimal introspective access to perceptual processes even for visually masked stimuli. <i>ELife</i> , 2015 , 4, e09651	8.9	64
44	Author response: Human observers have optimal introspective access to perceptual processes even for visually masked stimuli 2015 ,		2
43	Consciousness science: real progress and lingering misconceptions. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 556-7	14	21
42	Anatomical coupling between distinct metacognitive systems for memory and visual perception. <i>Journal of Neuroscience</i> , 2013 , 33, 1897-906	6.6	175
41	Continuous theta burst transcranial magnetic stimulation reduces resting state connectivity between visual areas. <i>Journal of Neurophysiology</i> , 2013 , 110, 1811-21	3.2	42
40	Prestimulus oscillatory activity over motor cortex reflects perceptual expectations. <i>Journal of Neuroscience</i> , 2013 , 33, 1400-10	6.6	156
39	Subliminal stimuli in the near absence of attention influence top-down cognitive control. <i>Attention, Perception, and Psychophysics</i> , 2012 , 74, 521-32	2	13

38	Does response interference depend on the subjective visibility of flanker distractors?. <i>Attention, Perception, and Psychophysics</i> , 2012 , 74, 841-51	2	43
37	A signal detection theoretic approach for estimating metacognitive sensitivity from confidence ratings. <i>Consciousness and Cognition</i> , 2012 , 21, 422-30	2.6	389
36	A detection theoretic explanation of blindsight suggests a link between conscious perception and metacognition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 1401-11	5.8	51
35	Prestimulus hemodynamic activity in dorsal attention network is negatively associated with decision confidence in visual perception. <i>Journal of Neurophysiology</i> , 2012 , 108, 1529-36	3.2	28
34	Direct injection of noise to the visual cortex decreases accuracy but increases decision confidence. <i>Journal of Neurophysiology</i> , 2012 , 107, 1556-63	3.2	77
33	Awareness-related activity in prefrontal and parietal cortices in blindsight reflects more than superior visual performance. <i>NeuroImage</i> , 2011 , 58, 605-11	7.9	38
32	Empirical support for higher-order theories of conscious awareness. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 365-73	14	399
31	The higher-order view does not require consciously self-directed introspection: response to Malach. <i>Trends in Cognitive Sciences</i> , 2011 , 15, 508-509	14	9
30	Attention induces conservative subjective biases in visual perception. <i>Nature Neuroscience</i> , 2011 , 14, 1513-5	25.5	121
29	Theoretical motivations for investigating the neural correlates of consciousness. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2011 , 2, 1-7	4.5	7
28	Prior expectation modulates the interaction between sensory and prefrontal regions in the human brain. <i>Journal of Neuroscience</i> , 2011 , 31, 10741-8	6.6	88
27	Neuroscience. Should confidence be trusted?. <i>Science</i> , 2010 , 329, 1478-9	33.3	9
26	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. <i>Cognitive Neuroscience</i> , 2010 , 1, 165-75	1.7	229
25	Comparing signal detection models of perceptual decision confidence. <i>Journal of Vision</i> , 2010 , 10, 213-213	1.4	7
24	Awareness-related activity in prefrontal and parietal cortices reflects more than superior performance capacity: A blindsight case study. <i>Journal of Vision</i> , 2010 , 10, 897-897	0.4	3
23	Inattention boosts subjective visibility: Implications for inattentional and change blindness. <i>Journal of Vision</i> , 2010 , 9, 157-157	0.4	3
22	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. <i>Journal of Vision</i> , 2010 , 9, 764-764	0.4	2
21	Volition and the functions of consciousness. <i>Neuroscience Research</i> , 2009 , 65, S28	2.9	4

20	Direct assessment of qualia in a blindsight participant. <i>Consciousness and Cognition</i> , 2008 , 17, 1046-9	2.6	20
19	Unconscious activation of the cognitive control system in the human prefrontal cortex. <i>Journal of Neuroscience</i> , 2007 , 27, 5805-11	6.6	250
18	How the brain translates money into force: a neuroimaging study of subliminal motivation. <i>Science</i> , 2007 , 316, 904-6	33.3	455
17	Relative blindsight in normal observers and the neural correlate of visual consciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18763-8	11.5	342
16	Dissociating response selection and conflict in the medial frontal surface. <i>NeuroImage</i> , 2006 , 29, 446-51	7.9	104
15	Real-Time fMRI in the Treatment of Mental Health Disorders		2
14	Consciousness, Metacognition, & Perceptual Reality Monitoring		21
13	On the dangers of conflating strong and weak versions of a theory of consciousness		5
12	Individual susceptibility to TMS affirms the precuneal role in metamemory upon recollection		1
11	Conducting Decoded Neurofeedback Studies		2
10	Multivoxel Neural Reinforcement Changes Resting-State Functional Connectivity Within the Threat Regulation Network		1
9	Subjective inflation of color saturation in the periphery under temporal overload		2
8	Causal evidence for mnemonic metacognition in human precuneus		1
7	Multivoxel Pattern Analysis Reveals Dissociations Between Subjective Fear and Its Physiological Correlates		3
6	Metacognition facilitates the exploitation of unconscious brain states		2
5	Tuned normalization in perceptual decision-making circuits can explain seemingly suboptimal confidence behavior		1
4	Dissociable roles for Anterior Cingulate Cortex and Basolateral Amygdala in Decision Confidence and Learning under Uncertainty		2
3	Multivoxel patterns for perceptual confidence are associated with false color detection		1

2	Consensus goals in the field of visual metacognition	2
1	The mnemonic basis of subjective experience	2