Hakwan Lau

List of Publications by Year
in descending order

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116 papers	7,756 citations	87723 38 h-index	66788 78 g-index
143 all docs	143 docs citations	143 times ranked	4786 citing authors

#	Article	IF	Citations
1	A signal detection theoretic approach for estimating metacognitive sensitivity from confidence ratings. Consciousness and Cognition, 2012, 21, 422-430.	0.8	591
2	Empirical support for higher-order theories of conscious awareness. Trends in Cognitive Sciences, 2011, 15, 365-373.	4.0	540
3	How the Brain Translates Money into Force: A Neuroimaging Study of Subliminal Motivation. Science, 2007, 316, 904-906.	6.0	525
4	Relative blindsight in normal observers and the neural correlate of visual consciousness. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18763-18768.	3.3	416
5	What is consciousness, and could machines have it?. Science, 2017, 358, 486-492.	6.0	370
6	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. Cognitive Neuroscience, 2010, 1, 165-175.	0.6	303
7	Unconscious Activation of the Cognitive Control System in the Human Prefrontal Cortex. Journal of Neuroscience, 2007, 27, 5805-5811.	1.7	282
8	Anatomical Coupling between Distinct Metacognitive Systems for Memory and Visual Perception. Journal of Neuroscience, 2013, 33, 1897-1906.	1.7	244
9	Prestimulus Oscillatory Activity over Motor Cortex Reflects Perceptual Expectations. Journal of Neuroscience, 2013, 33, 1400-1410.	1.7	226
10	Understanding the Higher-Order Approach to Consciousness. Trends in Cognitive Sciences, 2019, 23, 754-768.	4.0	220
11	Domain-General and Domain-Specific Patterns of Activity Supporting Metacognition in Human Prefrontal Cortex. Journal of Neuroscience, 2018, 38, 3534-3546.	1.7	187
12	Should a Few Null Findings Falsify Prefrontal Theories of Conscious Perception?. Journal of Neuroscience, 2017, 37, 9593-9602.	1.7	177
13	Attention induces conservative subjective biases in visual perception. Nature Neuroscience, 2011, 14, 1513-1515.	7.1	168
14	Action-Specific Disruption of Perceptual Confidence. Psychological Science, 2015, 26, 89-98.	1.8	126
15	Multivoxel neurofeedback selectively modulates confidence without changing perceptual performance. Nature Communications, 2016, 7, 13669.	5.8	125
16	Confidence Leak in Perceptual Decision Making. Psychological Science, 2015, 26, 1664-1680.	1.8	119
17	Prior Expectation Modulates the Interaction between Sensory and Prefrontal Regions in the Human Brain. Journal of Neuroscience, 2011, 31, 10741-10748.	1.7	113
18	Fear reduction without fear through reinforcement of neural activity that bypasses conscious exposure. Nature Human Behaviour, 2017, 1, .	6.2	113

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19	Dissociating response selection and conflict in the medial frontal surface. NeuroImage, 2006, 29, 446-451.	2.1	108
20	Towards an unconscious neural reinforcement intervention for common fears. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3470-3475.	3.3	105
21	Direct injection of noise to the visual cortex decreases accuracy but increases decision confidence. Journal of Neurophysiology, 2012, 107, 1556-1563.	0.9	104
22	Perceptual confidence neglects decision-incongruent evidence in the brain. Nature Human Behaviour, 2017, 1, .	6.2	102
23	Domain-general enhancements of metacognitive ability through adaptive training.. Journal of Experimental Psychology: General, 2019, 148, 51-64.	1.5	101
24	Human observers have optimal introspective access to perceptual processes even for visually masked stimuli. ELife, 2015, 4, e09651.	2.8	98
25	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. Neuroscience and Biobehavioral Reviews, 2015, 55, 88-97.	2.9	92
26	Heuristic use of perceptual evidence leads to dissociation between performance and metacognitive sensitivity. Attention, Perception, and Psychophysics, 2016, 78, 923-937.	0.7	92
27	The signal processing architecture underlying subjective reports of sensory awareness. Neuroscience of Consciousness, 2016, 2016, .	1.4	86
28	Does perceptual confidence facilitate cognitive control?. Attention, Perception, and Psychophysics, 2015, 77, 1295-1306.	0.7	82
29	A Role for the Superior Colliculus in Decision Criteria. Neuron, 2018, 97, 181-194.e6.	3.8	81
30	Does response interference depend on the subjective visibility of flanker distractors?. Attention, Perception, and Psychophysics, 2012, 74, 841-851.	0.7	80
31	Causal Evidence for Mnemonic Metacognition in Human Precuneus. Journal of Neuroscience, 2018, 38, 6379-6387.	1.7	80
32	A detection theoretic explanation of blindsight suggests a link between conscious perception and metacognition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1401-1411.	1.8	76
33	Superior colliculus neuronal ensemble activity signals optimal rather than subjective confidence. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1588-E1597.	3.3	72
34	Putting the â€œmentalâ€•back in â€œmental disordersâ€• a perspective from research on fear and anxiety. Molecular Psychiatry, 2022, 27, 1322-1330.	4.1	63
35	Multivoxel pattern analysis reveals dissociations between subjective fear and its physiological correlates. Molecular Psychiatry, 2020, 25, 2342-2354.	4.1	60
36	Continuous theta burst transcranial magnetic stimulation reduces resting state connectivity between visual areas. Journal of Neurophysiology, 2013, 110, 1811-1821.	0.9	58

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37	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	6.2	58
38	Awareness-related activity in prefrontal and parietal cortices in blindsight reflects more than superior visual performance. NeuroImage, 2011, 58, 605-611.	2.1	57
39	Contributions of anterior cingulate cortex and basolateral amygdala to decision confidence and learning under uncertainty. Nature Communications, 2019, 10, 4704.	5.8	57
40	Current Status of Neurofeedback for Post-traumatic Stress Disorder: A Systematic Review and the Possibility of Decoded Neurofeedback. Frontiers in Human Neuroscience, 2019, 13, 233.	1.0	51
41	Decoded fMRI neurofeedback can induce bidirectional confidence changes within single participants. NeuroImage, 2017, 149, 323-337.	2.1	45
42	Manipulation of working memory contents selectively impairs metacognitive sensitivity in a concurrent visual discrimination task. Neuroscience of Consciousness, 2015, 2015, niv002.	1.4	42
43	Whoâ€™s afraid of response bias?. Neuroscience of Consciousness, 2016, 2016, niw001.	1.4	41
44	A decisional account of subjective inflation of visual perception at the periphery. Attention, Perception, and Psychophysics, 2015, 77, 258-271.	0.7	39
45	Prestimulus hemodynamic activity in dorsal attention network is negatively associated with decision confidence in visual perception. Journal of Neurophysiology, 2012, 108, 1529-1536.	0.9	38
46	The Neurobiology of Reduced Autobiographical Memory Specificity. Trends in Cognitive Sciences, 2018, 22, 1038-1049.	4.0	36
47	Cross-Domain Association in Metacognitive Efficiency Depends on First-Order Task Types. Frontiers in Psychology, 2018, 9, 2464.	1.1	32
48	Limited Cognitive Resources Explain a Trade-Off between Perceptual and Metacognitive Vigilance. Journal of Neuroscience, 2017, 37, 1213-1224.	1.7	30
49	Inflation versus filling-in: why we feel we see more than we actually do in peripheral vision. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170345.	1.8	30
50	Consciousness science: real progress and lingering misconceptions. Trends in Cognitive Sciences, 2014, 18, 556-557.	4.0	29
51	Individual susceptibility to TMS affirms the precuneal role in meta-memory upon recollection. Brain Structure and Function, 2019, 224, 2407-2419.	1.2	29
52	A little history goes a long way toward understanding why we study consciousness the way we do today. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6976-6984.	3.3	26
53	Tuned inhibition in perceptual decision-making circuits can explain seemingly suboptimal confidence behavior. PLoS Computational Biology, 2021, 17, e1008779.	1.5	26
54	Unconscious reinforcement learning of hidden brain states supported by confidence. Nature Communications, 2020, 11, 4429.	5.8	25

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55	What Type of Awareness Does Binocular Rivalry Assess?. Trends in Cognitive Sciences, 2016, 20, 719-720.	4.0	24
56	Transcranial magnetic stimulation to visual cortex induces suboptimal introspection. Cortex, 2017, 93, 119-132.	1.1	24
57	The mnemonic basis of subjective experience. , 2022, 1, 479-488.		24
58	A decision-congruent heuristic gives superior metacognitive sensitivity under realistic variance assumptions.. Psychological Review, 2020, 127, 655-671.	2.7	23
59	An Informal Internet Survey on the Current State of Consciousness Science. Frontiers in Psychology, 2018, 9, 2134.	1.1	22
60	Subjective inflation: phenomenologyâ€™s get-rich-quick scheme. Current Opinion in Psychology, 2019, 29, 49-55.	2.5	22
61	Direct assessment of qualia in a blindsight participant. Consciousness and Cognition, 2008, 17, 1046-1049.	0.8	21
62	Seeing consciousness through the lens of memory. Current Biology, 2020, 30, R1018-R1022.	1.8	20
63	Unconscious psychological treatments for physiological survival circuits. Current Opinion in Behavioral Sciences, 2018, 24, 62-68.	2.0	19
64	Human brain responses to gustatory and food stimuli: A meta-evaluation of neuroimaging meta-analyses. NeuroImage, 2019, 202, 116111.	2.1	19
65	An investigation of detection biases in the unattended periphery during simulated driving. Attention, Perception, and Psychophysics, 2018, 80, 1325-1332.	0.7	18
66	Conducting decoded neurofeedback studies. Social Cognitive and Affective Neuroscience, 2020, 16, 838-848.	1.5	18
67	Subliminal stimuli in the near absence of attention influence top-down cognitive control. Attention, Perception, and Psychophysics, 2012, 74, 521-532.	0.7	17
68	What is volition?. Experimental Brain Research, 2013, 229, 285-287.	0.7	15
69	Controlling for performance capacity confounds in neuroimaging studies of conscious awareness. Neuroscience of Consciousness, 2015, 2015, niv008.	1.4	15
70	Is blindsight possible under signal detection theory? Comment on Phillips (2021).. Psychological Review, 2021, 128, 585-591.	2.7	15
71	Consensus Goals in the Field of Visual Metacognition. Perspectives on Psychological Science, 2022, 17, 1746-1765.	5.2	15
72	Theoretical motivations for investigating the neural correlates of consciousness. Wiley Interdisciplinary Reviews: Cognitive Science, 2011, 2, 1-7.	1.4	14

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73	Volition and the functions of consciousness. Neuroscience Research, 2009, 65, S28.	1.0	13
74	Response. Science, 2018, 359, 400-402.	6.0	13
75	The higher-order view does not require consciously self-directed introspection: response to Malach. Trends in Cognitive Sciences, 2011, 15, 508-509.	4.0	12
76	The effects of neurochemical balance in the anterior cingulate cortex and dorsolateral prefrontal cortex on volitional control under irrelevant distraction. Consciousness and Cognition, 2018, 59, 104-111.	0.8	12
77	Is fear perception special? Evidence at the level of decision-making and subjective confidence. Social Cognitive and Affective Neuroscience, 2016, 11, 1772-1782.	1.5	11
78	Superior colliculus signals decisions rather than confidence: analysis of single neurons. Journal of Neurophysiology, 2018, 120, 2614-2629.	0.9	11
79	Neuroscience: The Key to Consciousness May Not Be under the Streetlight. Current Biology, 2018, 28, R749-R752.	1.8	11
80	Real-Time Functional MRI in the Treatment of Mental Health Disorders. Annual Review of Clinical Psychology, 2022, 18, 125-154.	6.3	11
81	Should Confidence Be Trusted?. Science, 2010, 329, 1478-1479.	6.0	10
82	An investigation of how relative precision of target encoding influences metacognitive performance. Attention, Perception, and Psychophysics, 2021, 83, 512-524.	0.7	10
83	Transcranial magnetic stimulation alters multivoxel patterns inÂthe absence of overall activity changes. Human Brain Mapping, 2021, 42, 3804-3820.	1.9	10
84	Comparing signal detection models of perceptual decision confidence. Journal of Vision, 2010, 10, 213-213.	0.1	10
85	On the dangers of conflating strong and weak versions of a theory of consciousness. Philosophy and the Mind Sciences, 2020, 1, .	1.3	10
86	The DecNef collection, fMRI data from closed-loop decoded neurofeedback experiments. Scientific Data, 2021, 8, 65.	2.4	9
87	Continuous flash suppression and monocular pattern masking impact subjective awareness similarly. Attention, Perception, and Psychophysics, 2018, 80, 1974-1987.	0.7	8
88	Spatiotemporal dynamics of brightness coding in human visual cortex revealed by the temporal context effect. NeuroImage, 2020, 205, 116277.	2.1	8
89	Atypical spatial frequency dependence of visual metacognition among schizophrenia patients. NeuroImage: Clinical, 2020, 27, 102296.	1.4	8
90	Between-subject correlation of heart rate variability predicts movie preferences. PLoS ONE, 2021, 16, e0247625.	1.1	8

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91	Variable Statistical Structure of Neuronal Spike Trains in Monkey Superior Colliculus. Journal of Neuroscience, 2021, 41, 3234-3253.	1.7	6
92	New measures of agency from an adaptive sensorimotor task. PLoS ONE, 2020, 15, e0244113.	1.1	6
93	An Evolutionarily Threat-Relevant Odor Strengthens Human Fear Memory. Frontiers in Neuroscience, 2020, 14, 255.	1.4	5
94	Methodological Considerations to Strengthen Studies of Peripheral Vision. Trends in Cognitive Sciences, 2016, 20, 642-643.	4.0	4
95	Crucial Role of the Prefrontal Cortex in Conscious Perception. , 2017, , 129-141.		4
96	Six-fold over-representation of graduates from prestigious universities does not necessitate unmeritocratic selection in the faculty hiring process. PLoS ONE, 2017, 12, e0185900.	1.1	3
97	Awareness-related activity in prefrontal and parietal cortices reflects more than superior performance capacity: A blindsight case study. Journal of Vision, 2010, 10, 897-897.	0.1	3
98	Inattention boosts subjective visibility: Implications for inattentional and change blindness. Journal of Vision, 2010, 9, 157-157.	0.1	3
99	How the Brain Converts Negative Evaluation into Performance Facilitation. Cerebral Cortex, 2018, 28, 602-611.	1.6	2
100	A new vista in psychiatric treatment: Using individualized functional connectivity to track symptoms. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4450-4452.	3.3	2
101	Higher-order theories do just fine. Cognitive Neuroscience, 2021, 12, 77-78.	0.6	2
102	Theta-burst transcranial magnetic stimulation to the prefrontal cortex impairs metacognitive visual awareness. Journal of Vision, 2010, 9, 764-764.	0.1	2
103	A Multivoxel Pattern Analysis of Anhedonia During Fear Extinction: Implications for Safety Learning. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2023, 8, 417-425.	1.1	2
104	20 Years of ASSC: are we ready for its coming of age?. Neuroscience of Consciousness, 2017, 2017, nix008.	1.4	1
105	Different physiological correlates for perceptual decisions and confidence ratings support multi-stage theories. Journal of Vision, 2011, 11, 879-879.	0.1	1
106	Subjective confidence judgments for motion direction discrimination are centrally biased despite matched objective performance in the periphery. Journal of Vision, 2019, 19, 294b.	0.1	1
107	Reporting on the temporal properties of visual events masked with continuous flash suppression. Consciousness and Cognition, 2015, 36, 154-168.	0.8	0
108	Measuring away an attentional confound?. Neuroscience of Consciousness, 2017, 2017, nix018.	1.4	0

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109	Ethical considerations for fMRI neurofeedback. , 2021, , 315-331.		0
110	Investigating Perceptual Confidence in the Superior Colliculus with Multi-Unit Neuronal Recordings. Journal of Vision, 2017, 17, 741.	0.1	0
111	Subjective inflation in the unattended periphery in a naturalistic environment. Journal of Vision, 2018, 18, 530.	0.1	0
112	Visual representations outside of conscious awareness can support sensory preconditioning. Journal of Vision, 2019, 19, 188.	0.1	0
113	New measures of agency from an adaptive sensorimotor task. , 2020, 15, e0244113.		0
114	New measures of agency from an adaptive sensorimotor task. , 2020, 15, e0244113.		0
115	New measures of agency from an adaptive sensorimotor task. , 2020, 15, e0244113.		0
116	New measures of agency from an adaptive sensorimotor task. , 2020, 15, e0244113.		0