

Catherine Tallon-Baudry

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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.

71 papers	9,096 citations	37 h-index	76 g-index
76 ext. papers	10,344 ext. citations	5.7 avg, IF	6.3 L-index

#	Paper	IF	Citations
71	Oscillatory gamma activity in humans and its role in object representation. <i>Trends in Cognitive Sciences</i> , 1999 , 3, 151-162	14	1607
70	Stimulus specificity of phase-locked and non-phase-locked 40 Hz visual responses in human. <i>Journal of Neuroscience</i> , 1996 , 16, 4240-9	6.6	1262
69	Induced gamma-band activity during the delay of a visual short-term memory task in humans. <i>Journal of Neuroscience</i> , 1998 , 18, 4244-54	6.6	844
68	Oscillatory gamma-band (30-70 Hz) activity induced by a visual search task in humans. <i>Journal of Neuroscience</i> , 1997 , 17, 722-34	6.6	788
67	Neural dissociation between visual awareness and spatial attention. <i>Journal of Neuroscience</i> , 2008 , 28, 2667-79	6.6	285
66	Oscillatory synchrony between human extrastriate areas during visual short-term memory maintenance. <i>Journal of Neuroscience</i> , 2001 , 21, RC177	6.6	273
65	The many faces of the gamma band response to complex visual stimuli. <i>NeuroImage</i> , 2005 , 25, 491-501	7.9	266
64	Attention modulates gamma-band oscillations differently in the human lateral occipital cortex and fusiform gyrus. <i>Cerebral Cortex</i> , 2005 , 15, 654-62	5.1	242
63	Sustained and transient oscillatory responses in the gamma and beta bands in a visual short-term memory task in humans. <i>Visual Neuroscience</i> , 1999 , 16, 449-59	1.7	230
62	Oscillatory gamma activity in humans: a possible role for object representation. <i>International Journal of Psychophysiology</i> , 2000 , 38, 211-23	2.9	207
61	Spontaneous fluctuations in neural responses to heartbeats predict visual detection. <i>Nature Neuroscience</i> , 2014 , 17, 612-8	25.5	196
60	An attention modulated response to disgust in human ventral anterior insula. <i>Annals of Neurology</i> , 2003 , 53, 446-53	9.4	165
59	Gamma-range activity evoked by coherent visual stimuli in humans. <i>European Journal of Neuroscience</i> , 1995 , 7, 1285-91	3.5	158
58	How ongoing fluctuations in human visual cortex predict perceptual awareness: baseline shift versus decision bias. <i>Journal of Neuroscience</i> , 2009 , 29, 8715-25	6.6	155
57	Visual grouping and the focusing of attention induce gamma-band oscillations at different frequencies in human magnetoencephalogram signals. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 1850-62	3.1	151
56	The roles of gamma-band oscillatory synchrony in human visual cognition. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 321-32	2.8	149
55	Oscillatory synchrony in the monkey temporal lobe correlates with performance in a visual short-term memory task. <i>Cerebral Cortex</i> , 2004 , 14, 713-20	5.1	139

54	Olfactory learning modifies the expression of odour-induced oscillatory responses in the gamma (60-90 Hz) and beta (15-40 Hz) bands in the rat olfactory bulb. <i>European Journal of Neuroscience</i> , 2003 , 17, 350-8	3.5	129
53	Parametric analysis of oscillatory activity as measured with EEG/MEG. <i>Human Brain Mapping</i> , 2005 , 26, 170-7	5.9	110
52	Visceral Signals Shape Brain Dynamics and Cognition. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 488-509	14	108
51	Combined EEG and MEG recordings of visual 40 Hz responses to illusory triangles in human. <i>NeuroReport</i> , 1997 , 8, 1103-7	1.7	104
50	The neural subjective frame: from bodily signals to perceptual consciousness. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130208	5.8	101
49	Oscillatory synchrony and human visual cognition. <i>Journal of Physiology (Paris)</i> , 2003 , 97, 355-63		99
48	Stomach-brain synchrony reveals a novel, delayed-connectivity resting-state network in humans. <i>ELife</i> , 2018 , 7,	8.9	89
47	Cueing attention after the stimulus is gone can retrospectively trigger conscious perception. <i>Current Biology</i> , 2013 , 23, 150-5	6.3	87
46	Neural Responses to Heartbeats in the Default Network Encode the Self in Spontaneous Thoughts. <i>Journal of Neuroscience</i> , 2016 , 36, 7829-40	6.6	81
45	Cortical mapping of gamma oscillations in areas V1 and V4 of the macaque monkey. <i>Visual Neuroscience</i> , 2001 , 18, 527-40	1.7	75
44	Neural Sources and Underlying Mechanisms of Neural Responses to Heartbeats, and their Role in Bodily Self-consciousness: An Intracranial EEG Study. <i>Cerebral Cortex</i> , 2018 , 28, 2351-2364	5.1	69
43	On the neural mechanisms subserving consciousness and attention. <i>Frontiers in Psychology</i> , 2011 , 2, 397	3.4	67
42	Causal frequency-specific contributions of frontal spatiotemporal patterns induced by non-invasive neurostimulation to human visual performance. <i>Journal of Neuroscience</i> , 2013 , 33, 5000-5	6.6	61
41	Phase-amplitude coupling at the organism level: The amplitude of spontaneous alpha rhythm fluctuations varies with the phase of the infra-slow gastric basal rhythm. <i>NeuroImage</i> , 2017 , 146, 951-958	7.9	59
40	Unconscious associative memory affects visual processing before 100 ms. <i>Journal of Vision</i> , 2008 , 8, 10.1161	10	59
39	Human lateral geniculate nucleus and visual cortex respond to screen flicker. <i>Annals of Neurology</i> , 2003 , 53, 73-80	9.4	52
38	The neural monitoring of visceral inputs, rather than attention, accounts for first-person perspective in conscious vision. <i>Cortex</i> , 2018 , 102, 139-149	3.8	44
37	Induced gamma-band oscillations correlate with awareness in hemianopic patient GY. <i>Neuropsychologia</i> , 2006 , 44, 1796-803	3.2	41

36	Distinct and independent correlates of attention and awareness in a hemianopic patient. <i>Neuropsychologia</i> , 2008 , 46, 2189-97	3.2	39
35	Attention and awareness in synchrony. <i>Trends in Cognitive Sciences</i> , 2004 , 8, 523-5	14	38
34	Multidimensional cognitive evaluation of patients with disorders of consciousness using EEG: A proof of concept study. <i>NeuroImage: Clinical</i> , 2017 , 13, 455-469	5.3	35
33	Unconscious learning versus visual perception: dissociable roles for gamma oscillations revealed in MEG. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 2287-99	3.1	35
32	Is the cardiac monitoring function related to the self in both the default network and right anterior insula?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	35
31	Early dissociation between neural signatures of endogenous spatial attention and perceptual awareness during visual masking. <i>Frontiers in Human Neuroscience</i> , 2011 , 6, 16	3.3	31
30	Relational information in visual short-term memory: the structural gist. <i>Journal of Vision</i> , 2005 , 5, 244-560.4	0.4	29
29	Anchoring visual subjective experience in a neural model: the coarse vividness hypothesis. <i>Neuropsychologia</i> , 2013 , 51, 1050-60	3.2	28
28	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019 , 3, 104-107	12.8	28
27	Neural dynamics of neglected targets in patients with right hemisphere damage. <i>Cortex</i> , 2013 , 49, 1989-96	3.6	25
26	A ring-shaped distribution of dipoles as a source model of induced gamma-band activity. <i>Clinical Neurophysiology</i> , 1999 , 110, 660-5	4.3	23
25	Neural responses to heartbeats distinguish self from other during imagination. <i>NeuroImage</i> , 2019 , 191, 10-20	7.9	20
24	Early influence of prior experience on face perception. <i>NeuroImage</i> , 2011 , 54, 1415-26	7.9	20
23	Voluntary and involuntary spatial attentions interact differently with awareness. <i>Neuropsychologia</i> , 2011 , 49, 2465-74	3.2	17
22	Unconscious contextual memory affects early responses in the anterior temporal lobe. <i>Brain Research</i> , 2009 , 1285, 77-87	3.7	17
21	Electrogastrography for psychophysiological research: Practical considerations, analysis pipeline, and normative data in a large sample. <i>Psychophysiology</i> , 2020 , 57, e13599	4.1	17
20	Conscious Vision Proceeds from Global to Local Content in Goal-Directed Tasks and Spontaneous Vision. <i>Journal of Neuroscience</i> , 2016 , 36, 5200-13	6.6	17
19	Activity in the lateral occipital cortex between 200 and 300 ms distinguishes between physically identical seen and unseen stimuli. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 211	3.3	16

18	Fast and automatic activation of an abstract representation of money in the human ventral visual pathway. <i>PLoS ONE</i> , 2011 , 6, e28229	3.7	13
17	Resting-State Neural Firing Rate Is Linked to Cardiac-Cycle Duration in the Human Cingulate and Parahippocampal Cortices. <i>Journal of Neuroscience</i> , 2019 , 39, 3676-3686	6.6	12
16	Time is more than a sensory feature: Attending to duration triggers specific anticipatory activity. <i>Cognitive Neuroscience</i> , 2011 , 2, 11-8	1.7	10
15	Neural Responses to Heartbeats Detect Residual Signs of Consciousness during Resting State in Postcomatose Patients. <i>Journal of Neuroscience</i> , 2021 , 41, 5251-5262	6.6	8
14	Author response: Stomach-brain synchrony reveals a novel, delayed-connectivity resting-state network in humans 2018 ,		5
13	Responses to Heartbeats in Ventromedial Prefrontal Cortex Contribute to Subjective Preference-Based Decisions. <i>Journal of Neuroscience</i> , 2021 , 41, 5102-5114	6.6	5
12	Neuronal correlates of the subjective experience of attention. <i>European Journal of Neuroscience</i> , 2021 ,	3.5	5
11	Does stroke volume influence heartbeat evoked responses?. <i>Biological Psychology</i> , 2021 , 165, 108165	3.2	4
10	Reply. <i>Trends in Cognitive Sciences</i> , 1999 , 3, 252-253	14	2
9	Responses to heartbeats in ventromedial prefrontal cortex contribute to subjective preference-based decisions		2
8	Brain-Stomach coupling: Anatomy, functions, and future avenues of research. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 18, 100270	4.4	2
7	Behavioral evidence for differences in social and non-social category learning. <i>Frontiers in Psychology</i> , 2012 , 3, 291	3.4	1
6	The sensory and motor components of the cortical hierarchy are coupled to the rhythm of the stomach during rest.. <i>Journal of Neuroscience</i> , 2022 ,	6.6	1
5	Processing of slow-global auditory regularities causes larger neural responses to heartbeats in patients under minimal consciousness state, compared to unresponsive wakefulness syndrome		1
4	Stomach-brain synchrony binds neural representations of the body in a novel, delayed-connectivity resting-state network		1
3	Coupling between the phase of a neural oscillation or bodily rhythm with behavior: Evaluation of different statistical procedures. <i>NeuroImage</i> , 2021 , 236, 118050	7.9	1
2	Consciousness matters: phenomenal experience has functional value.. <i>Neuroscience of Consciousness</i> , 2022 , 2022, niac007	3.3	1
1	From global to local in conscious vision: behavior & MEG. <i>Journal of Vision</i> , 2021 , 21, 63	0.4	

