Catherine Tallon-Baudry

List of Publications by Year in Descending Order

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	The sensory and motor components of the cortical hierarchy are coupled to the rhythm of the stomach during rest.. *Journal of Neuroscience*, **2022**,	6.6	1
70	Consciousness matters: phenomenal experience has functional value.. *Neuroscience of Consciousness*, **2022**, 2022, niac007	3.3	1
69	Neural Responses to Heartbeats Detect Residual Signs of Consciousness during Resting State in Postcomatose Patients. *Journal of Neuroscience*, **2021**, 41, 5251-5262	6.6	8
68	Responses to Heartbeats in Ventromedial Prefrontal Cortex Contribute to Subjective Preference-Based Decisions. *Journal of Neuroscience*, **2021**, 41, 5102-5114	6.6	5
67	Brain□stomach coupling: Anatomy, functions, and future avenues of research. *Current Opinion in Biomedical Engineering*, **2021**, 18, 100270	4.4	2
66	Neuronal correlates of the subjective experience of attention. *European Journal of Neuroscience*, **2021**,	3.5	5
65	Coupling between the phase of a neural oscillation or bodily rhythm with behavior: Evaluation of different statistical procedures. *NeuroImage*, **2021**, 236, 118050	7.9	1
64	From global to local in conscious vison: behavior & MEG. *Journal of Vision*, **2021**, 21, 63	0.4	
63	Does stroke volume influence heartbeat evoked responses?. *Biological Psychology*, **2021**, 165, 108165	3.2	4
62	Electrogastrography for psychophysiological research: Practical considerations, analysis pipeline, and normative data in a large sample. *Psychophysiology*, **2020**, 57, e13599	4.1	17
61	Visceral Signals Shape Brain Dynamics and Cognition. *Trends in Cognitive Sciences*, **2019**, 23, 488-509	14	108
60	Resting-State Neural Firing Rate Is Linked to Cardiac-Cycle Duration in the Human Cingulate and Parahippocampal Cortices. *Journal of Neuroscience*, **2019**, 39, 3676-3686	6.6	12
59	Neural responses to heartbeats distinguish self from other during imagination. *NeuroImage*, **2019**, 191, 10-20	7.9	20
58	Opportunities and challenges for a maturing science of consciousness. *Nature Human Behaviour*, **2019**, 3, 104-107	12.8	28
57	Neural Sources and Underlying Mechanisms of Neural Responses to Heartbeats, and their Role in Bodily Self-consciousness: An Intracranial EEG Study. *Cerebral Cortex*, **2018**, 28, 2351-2364	5.1	69
56	Author response: Stomach-brain synchrony reveals a novel, delayed-connectivity resting-state network in humans **2018**,		5
55	The neural monitoring of visceral inputs, rather than attention, accounts for first-person perspective in conscious vision. *Cortex*, **2018**, 102, 139-149	3.8	44

54	Stomach-brain synchrony reveals a novel, delayed-connectivity resting-state network in humans. *ELife*, **2018**, 7,	8.9	89
53	Multidimensional cognitive evaluation of patients with disorders of consciousness using EEG: A proof of concept study. *NeuroImage: Clinical*, **2017**, 13, 455-469	5.3	35
52	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. *NeuroImage*, **2017**, 146, 951-958	7.9	59
51	Conscious Vision Proceeds from Global to Local Content in Goal-Directed Tasks and Spontaneous Vision. *Journal of Neuroscience*, **2016**, 36, 5200-13	6.6	17
50	Is the cardiac monitoring function related to the self in both the default network and right anterior insula?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	35
49	Neural Responses to Heartbeats in the Default Network Encode the Self in Spontaneous Thoughts. *Journal of Neuroscience*, **2016**, 36, 7829-40	6.6	81
48	Spontaneous fluctuations in neural responses to heartbeats predict visual detection. *Nature Neuroscience*, **2014**, 17, 612-8	25.5	196
47	The neural subjective frame: from bodily signals to perceptual consciousness. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130208	5.8	101
46	Cueing attention after the stimulus is gone can retrospectively trigger conscious perception. *Current Biology*, **2013**, 23, 150-5	6.3	87
45	Neural dynamics of neglected targets in patients with right hemisphere damage. *Cortex*, **2013**, 49, 1989-98	5.8	25
44	Causal frequency-specific contributions of frontal spatiotemporal patterns induced by non-invasive neurostimulation to human visual performance. *Journal of Neuroscience*, **2013**, 33, 5000-5	6.6	61
43	Anchoring visual subjective experience in a neural model: the coarse vividness hypothesis. *Neuropsychologia*, **2013**, 51, 1050-60	3.2	28
42	Behavioral evidence for differences in social and non-social category learning. *Frontiers in Psychology*, **2012**, 3, 291	3.4	1
41	Activity in the lateral occipital cortex between 200 and 300 ms distinguishes between physically identical seen and unseen stimuli. *Frontiers in Human Neuroscience*, **2012**, 6, 211	3.3	16
40	On the neural mechanisms subserving consciousness and attention. *Frontiers in Psychology*, **2011**, 2, 397	3.4	67
39	Early dissociation between neural signatures of endogenous spatial attention and perceptual awareness during visual masking. *Frontiers in Human Neuroscience*, **2011**, 6, 16	3.3	31
38	Early influence of prior experience on face perception. *NeuroImage*, **2011**, 54, 1415-26	7.9	20
37	Fast and automatic activation of an abstract representation of money in the human ventral visual pathway. *PLoS ONE*, **2011**, 6, e28229	3.7	13

36	Voluntary and involuntary spatial attentions interact differently with awareness. *Neuropsychologia*, **2011**, 49, 2465-74	3.2	17
35	Time is more than a sensory feature: Attending to duration triggers specific anticipatory activity. *Cognitive Neuroscience*, **2011**, 2, 11-8	1.7	10
34	The roles of gamma-band oscillatory synchrony in human visual cognition. *Frontiers in Bioscience - Landmark*, **2009**, 14, 321-32	2.8	149
33	Unconscious learning versus visual perception: dissociable roles for gamma oscillations revealed in MEG. *Journal of Cognitive Neuroscience*, **2009**, 21, 2287-99	3.1	35
32	How ongoing fluctuations in human visual cortex predict perceptual awareness: baseline shift versus decision bias. *Journal of Neuroscience*, **2009**, 29, 8715-25	6.6	155
31	Unconscious contextual memory affects early responses in the anterior temporal lobe. *Brain Research*, **2009**, 1285, 77-87	3.7	17
30	Distinct and independent correlates of attention and awareness in a hemianopic patient. *Neuropsychologia*, **2008**, 46, 2189-97	3.2	39
29	Neural dissociation between visual awareness and spatial attention. *Journal of Neuroscience*, **2008**, 28, 2667-79	6.6	285
28	Unconscious associative memory affects visual processing before 100 ms. *Journal of Vision*, **2008**, 8, 10.1-10	3.1	59
27	Induced gamma-band oscillations correlate with awareness in hemianopic patient GY. *Neuropsychologia*, **2006**, 44, 1796-803	3.2	41
26	Visual grouping and the focusing of attention induce gamma-band oscillations at different frequencies in human magnetoencephalogram signals. *Journal of Cognitive Neuroscience*, **2006**, 18, 1850-62	3.1	151
25	The many faces of the gamma band response to complex visual stimuli. *NeuroImage*, **2005**, 25, 491-501	7.9	266
24	Parametric analysis of oscillatory activity as measured with EEG/MEG. *Human Brain Mapping*, **2005**, 26, 170-7	5.9	110
23	Relational information in visual short-term memory: the structural gist. *Journal of Vision*, **2005**, 5, 244-56	0.4	29
22	Attention modulates gamma-band oscillations differently in the human lateral occipital cortex and fusiform gyrus. *Cerebral Cortex*, **2005**, 15, 654-62	5.1	242
21	Oscillatory synchrony in the monkey temporal lobe correlates with performance in a visual short-term memory task. *Cerebral Cortex*, **2004**, 14, 713-20	5.1	139
20	Attention and awareness in synchrony. *Trends in Cognitive Sciences*, **2004**, 8, 523-5	14	38
19	Oscillatory synchrony and human visual cognition. *Journal of Physiology (Paris)*, **2003**, 97, 355-63		99

18	Human lateral geniculate nucleus and visual cortex respond to screen flicker. *Annals of Neurology*, **2003**, 53, 73-80	9.4	52
17	An attention modulated response to disgust in human ventral anterior insula. *Annals of Neurology*, **2003**, 53, 446-53	9.4	165
16	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. *European Journal of Neuroscience*, **2003**, 17, 350-8	3.5	129
15	Oscillatory synchrony between human extrastriate areas during visual short-term memory maintenance. *Journal of Neuroscience*, **2001**, 21, RC177	6.6	273
14	Cortical mapping of gamma oscillations in areas V1 and V4 of the macaque monkey. *Visual Neuroscience*, **2001**, 18, 527-40	1.7	75
13	Oscillatory gamma activity in humans: a possible role for object representation. *International Journal of Psychophysiology*, **2000**, 38, 211-23	2.9	207
12	Oscillatory gamma activity in humans and its role in object representation. *Trends in Cognitive Sciences*, **1999**, 3, 151-162	14	1607
11	Reply. *Trends in Cognitive Sciences*, **1999**, 3, 252-253	14	2
10	A ring-shaped distribution of dipoles as a source model of induced gamma-band activity. *Clinical Neurophysiology*, **1999**, 110, 660-5	4.3	23
9	Sustained and transient oscillatory responses in the gamma and beta bands in a visual short-term memory task in humans. *Visual Neuroscience*, **1999**, 16, 449-59	1.7	230
8	Induced gamma-band activity during the delay of a visual short-term memory task in humans. *Journal of Neuroscience*, **1998**, 18, 4244-54	6.6	844
7	Combined EEG and MEG recordings of visual 40 Hz responses to illusory triangles in human. *NeuroReport*, **1997**, 8, 1103-7	1.7	104
6	Oscillatory gamma-band (30-70 Hz) activity induced by a visual search task in humans. *Journal of Neuroscience*, **1997**, 17, 722-34	6.6	788
5	Stimulus specificity of phase-locked and non-phase-locked 40 Hz visual responses in human. *Journal of Neuroscience*, **1996**, 16, 4240-9	6.6	1262
4	Gamma-range activity evoked by coherent visual stimuli in humans. *European Journal of Neuroscience*, **1995**, 7, 1285-91	3.5	158
3	Processing of slow-global auditory regularities causes larger neural responses to heartbeats in patients under minimal consciousness state, compared to unresponsive wakefulness syndrome		1
2	Stomach-brain synchrony binds neural representations of the body in a novel, delayed-connectivity resting-state network		1
1	Responses to heartbeats in ventromedial prefrontal cortex contribute to subjective preference-based decisions		2