

Christian C Ruff

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

9,442
citations

41344

49
h-index

43889

91
g-index

126
all docs

126
docs citations

126
times ranked

9559
citing authors

#	ARTICLE	IF	CITATIONS
1	Studying and modifying brain function with non-invasive brain stimulation. <i>Nature Neuroscience</i> , 2018, 21, 174-187.	14.8	615
2	Cognitive biases associated with medical decisions: a systematic review. <i>BMC Medical Informatics and Decision Making</i> , 2016, 16, 138.	3.0	574
3	The neurobiology of rewards and values in social decision making. <i>Nature Reviews Neuroscience</i> , 2014, 15, 549-562.	10.2	564
4	Concurrent TMS-fMRI and Psychophysics Reveal Frontal Influences on Human Retinotopic Visual Cortex. <i>Current Biology</i> , 2006, 16, 1479-1488.	3.9	479
5	Right Supramarginal Gyrus Is Crucial to Overcome Emotional Egocentricity Bias in Social Judgments. <i>Journal of Neuroscience</i> , 2013, 33, 15466-15476.	3.6	399
6	Changing Social Norm Compliance with Noninvasive Brain Stimulation. <i>Science</i> , 2013, 342, 482-484.	12.6	296
7	Distinct Causal Influences of Parietal Versus Frontal Areas on Human Visual Cortex: Evidence from Concurrent TMS-fMRI. <i>Cerebral Cortex</i> , 2008, 18, 817-827.	2.9	282
8	Linking Brain Structure and Activation in Temporoparietal Junction to Explain the Neurobiology of Human Altruism. <i>Neuron</i> , 2012, 75, 73-79.	8.1	234
9	Reasoning, Models, and Images: Behavioral Measures and Cortical Activity. <i>Journal of Cognitive Neuroscience</i> , 2003, 15, 559-573.	2.3	210
10	Mapping causal interregional influences with concurrent TMS-fMRI. <i>Experimental Brain Research</i> , 2008, 191, 383-402.	1.5	197
11	The Role of Contralesional Dorsal Premotor Cortex after Stroke as Studied with Concurrent TMS-fMRI. <i>Journal of Neuroscience</i> , 2010, 30, 11926-11937.	3.6	190
12	Combining TMS and fMRI: From "virtual lesions" to functional-network accounts of cognition. <i>Cortex</i> , 2009, 45, 1043-1049.	2.4	187
13	Neural Oscillations and Synchronization Differentially Support Evidence Accumulation in Perceptual and Value-Based Decision Making. <i>Neuron</i> , 2014, 82, 709-720.	8.1	181
14	Dorsal Premotor Cortex Exerts State-Dependent Causal Influences on Activity in Contralateral Primary Motor and Dorsal Premotor Cortex. <i>Cerebral Cortex</i> , 2008, 18, 1281-1291.	2.9	173
15	fMRI Evidence for a Three-Stage Model of Deductive Reasoning. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 320-334.	2.3	164
16	Functional magnetic resonance imaging detects activation of the visual association cortex during laser acupuncture of the foot in humans. <i>Neuroscience Letters</i> , 2002, 327, 53-56.	2.1	163
17	Causal evidence for frontal involvement in memory target maintenance by posterior brain areas during distracter interference of visual working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17510-17515.	7.1	157
18	Source monitoring and memory confidence in schizophrenia. <i>Psychological Medicine</i> , 2003, 33, 131-139.	4.5	142

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19	Hemispheric Differences in Frontal and Parietal Influences on Human Occipital Cortex: Direct Confirmation with Concurrent TMS-fMRI. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 1146-1161.	2.3	133
20	A causal account of the brain network computations underlying strategic social behavior. <i>Nature Neuroscience</i> , 2017, 20, 1142-1149.	14.8	126
21	Reasoning and working memory: common and distinct neuronal processes. <i>Neuropsychologia</i> , 2003, 41, 1241-1253.	1.6	124
22	Efficient coding of subjective value. <i>Nature Neuroscience</i> , 2019, 22, 134-142.	14.8	121
23	Reward Facilitates Tactile Judgments and Modulates Hemodynamic Responses in Human Primary Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 8161-8168.	3.6	116
24	The Cutaneous Rabbit Illusion Affects Human Primary Sensory Cortex Somatotopically. <i>PLoS Biology</i> , 2006, 4, e69.	5.6	115
25	The precision of value-based choices depends causally on fronto-parietal phase coupling. <i>Nature Communications</i> , 2015, 6, 8090.	12.8	114
26	Concurrent brain-stimulation and neuroimaging for studies of cognition. <i>Trends in Cognitive Sciences</i> , 2009, 13, 319-327.	7.8	110
27	Studying the Role of Human Parietal Cortex in Visuospatial Attention with Concurrent TMS-fMRI. <i>Cerebral Cortex</i> , 2010, 20, 2702-2711.	2.9	110
28	Interhemispheric Effect of Parietal TMS on Somatosensory Response Confirmed Directly with Concurrent TMS-fMRI. <i>Journal of Neuroscience</i> , 2008, 28, 13202-13208.	3.6	106
29	Neural Coding of Tactile Decisions in the Human Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 12596-12601.	3.6	105
30	The Role of the Anterior Cingulate Cortex in Conflict Processing: Evidence from Reverse Stroop Interference. <i>NeuroImage</i> , 2001, 14, 1150-1158.	4.2	102
31	Attentional Preparation for a Lateralized Visual Distractor: Behavioral and fMRI Evidence. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 522-538.	2.3	101
32	Brain stimulation reveals crucial role of overcoming self-centeredness in self-control. <i>Science Advances</i> , 2016, 2, e1600992.	10.3	100
33	Automatic versus Choice-Dependent Value Representations in the Human Brain. <i>Neuron</i> , 2015, 85, 874-885.	8.1	99
34	Brain Network Mechanisms Underlying Motor Enhancement by Transcranial Entrainment of Gamma Oscillations. <i>Journal of Neuroscience</i> , 2016, 36, 12053-12065.	3.6	93
35	Influence of Dopaminergically Mediated Reward on Somatosensory Decision-Making. <i>PLoS Biology</i> , 2009, 7, e1000164.	5.6	90
36	Spatial Attention Changes Excitability of Human Visual Cortex to Direct Stimulation. <i>Current Biology</i> , 2007, 17, 134-139.	3.9	89

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37	Repetitive Transcranial Magnetic Stimulation-Induced Changes in Sensorimotor Coupling Parallel Improvements of Somatosensation in Humans. <i>Journal of Neuroscience</i> , 2006, 26, 1945-1952.	3.6	85
38	Increasing honesty in humans with noninvasive brain stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4360-4364.	7.1	82
39	Anticipatory Anxiety Disrupts Neural Valuation during Risky Choice. <i>Journal of Neuroscience</i> , 2015, 35, 3085-3099.	3.6	78
40	Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. <i>Brain Stimulation</i> , 2020, 13, 1124-1149.	1.6	78
41	Transcranial Stimulation over Frontopolar Cortex Elucidates the Choice Attributes and Neural Mechanisms Used to Resolve Exploration-Exploitation Trade-Offs. <i>Journal of Neuroscience</i> , 2015, 35, 14544-14556.	3.6	76
42	Concurrent tACS-fMRI Reveals Causal Influence of Power Synchronized Neural Activity on Resting State fMRI Connectivity. <i>Journal of Neuroscience</i> , 2017, 37, 4766-4777.	3.6	73
43	Dynamical Representation of Dominance Relationships in the Human Rostromedial Prefrontal Cortex. <i>Current Biology</i> , 2016, 26, 3107-3115.	3.9	71
44	On-Line Attentional Selection From Competing Stimuli in Opposite Visual Fields: Effects on Human Visual Cortex and Control Processes. <i>Journal of Neurophysiology</i> , 2006, 96, 2601-2612.	1.8	67
45	Untangling Perceptual Memory: Hysteresis and Adaptation Map into Separate Cortical Networks. <i>Cerebral Cortex</i> , 2014, 24, 1152-1164.	2.9	67
46	Readout From Iconic Memory and Selective Spatial Attention Involve Similar Neural Processes. <i>Psychological Science</i> , 2007, 18, 901-909.	3.3	65
47	Concurrent TMS-fMRI reveals dynamic interhemispheric influences of the right parietal cortex during exogenously cued visuospatial attention. <i>European Journal of Neuroscience</i> , 2011, 33, 991-1000.	2.6	64
48	Parietal Stimulation Decouples Spatial and Feature-Based Attention. <i>Journal of Neuroscience</i> , 2008, 28, 11106-11110.	3.6	61
49	fMRI Evidence for a Three-Stage Model of Deductive Reasoning. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 320-334.	2.3	58
50	Methodological considerations regarding the association of Stroop and verbal fluency performance with the symptoms of schizophrenia. <i>Schizophrenia Research</i> , 2003, 61, 207-214.	2.0	50
51	Image artifacts in concurrent transcranial magnetic stimulation (TMS) and fMRI caused by leakage currents: Modeling and compensation. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1211-1217.	3.4	48
52	Real-world stress resilience is associated with the responsivity of the locus coeruleus. <i>Nature Communications</i> , 2021, 12, 2275.	12.8	48
53	Dissociable mechanisms govern when and how strongly reward attributes affect decisions. <i>Nature Human Behaviour</i> , 2020, 4, 949-963.	12.0	47
54	Brain Stimulation Over the Frontopolar Cortex Enhances Motivation to Exert Effort for Reward. <i>Biological Psychiatry</i> , 2018, 84, 38-45.	1.3	44

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55	The neural circuitry of affect-induced distortions of trust. <i>Science Advances</i> , 2019, 5, eaau3413.	10.3	44
56	Short- and long-term changes in anterior cingulate activation during resolution of task-set competition. <i>Brain Research</i> , 2006, 1068, 161-169.	2.2	42
57	Functional connectivity between prefrontal and parietal cortex drives visuo-spatial attention shifts. <i>Neuropsychologia</i> , 2017, 99, 81-91.	1.6	42
58	Decision-making in Multiple Sclerosis: The Role of Aversion to Ambiguity for Therapeutic Inertia among Neurologists (DISCUTIR MS). <i>Frontiers in Neurology</i> , 2017, 8, 65.	2.4	42
59	Direct Evidence for Attention-Dependent Influences of the Frontal Eye-Fields on Feature-Responsive Visual Cortex. <i>Cerebral Cortex</i> , 2014, 24, 2815-2821.	2.9	41
60	Insufficient sleep: Enhanced risk-seeking relates to low local sleep intensity. <i>Annals of Neurology</i> , 2017, 82, 409-418.	5.3	41
61	Attentional Bias towards Positive Emotion Predicts Stress Resilience. <i>PLoS ONE</i> , 2016, 11, e0148368.	2.5	41
62	Audiovisual synchrony enhances BOLD responses in a brain network including multisensory STS while also enhancing target-detection performance for both modalities. <i>Human Brain Mapping</i> , 2012, 33, 1212-1224.	3.6	40
63	A causal role for right temporo-parietal junction in signaling moral conflict. <i>ELife</i> , 2018, 7, .	6.0	35
64	Neurocomputational approaches to social behavior. <i>Current Opinion in Psychology</i> , 2018, 24, 41-47.	4.9	32
65	Integrated Bayesian models of learning and decision making for saccadic eye movements. <i>Neural Networks</i> , 2008, 21, 1247-1260.	5.9	31
66	New approaches to the study of human brain networks underlying spatial attention and related processes. <i>Experimental Brain Research</i> , 2010, 206, 153-162.	1.5	31
67	Matched-filter acquisition for BOLD fMRI. <i>NeuroImage</i> , 2014, 100, 145-160.	4.2	31
68	Computational and neurobiological foundations of leadership decisions. <i>Science</i> , 2018, 361, .	12.6	30
69	Role of the locus coeruleus arousal system in cognitive control. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12890.	2.6	30
70	Top-Down Modulation of Human Early Visual Cortex after Stimulus Offset Supports Successful Postcued Report. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1921-1934.	2.3	28
71	Transcranial direct current stimulation of the posterior parietal cortex modulates arithmetic learning. <i>European Journal of Neuroscience</i> , 2015, 42, 1667-1674.	2.6	27
72	Neurocognitive Effects of Transcranial Direct Current Stimulation in Arithmetic Learning and Performance: A Simultaneous tDCS-fMRI Study. <i>Brain Stimulation</i> , 2016, 9, 850-858.	1.6	27

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73	Cortical responses to changes in acoustic regularity are differentially modulated by attentional load. <i>NeuroImage</i> , 2012, 59, 1932-1941.	4.2	25
74	Disturbance of approach-avoidance behaviors in non-human primates by stimulation of the limbic territories of basal ganglia and anterior insula. <i>European Journal of Neuroscience</i> , 2019, 49, 687-700.	2.6	25
75	Sensory processing: who's in (top-down) control?. <i>Annals of the New York Academy of Sciences</i> , 2013, 1296, 88-107.	3.8	24
76	Temporal Structure and Complexity Affect Audio-Visual Correspondence Detection. <i>Frontiers in Psychology</i> , 2012, 3, 619.	2.1	23
77	Transcranial Stimulation Over the Dorsolateral Prefrontal Cortex Increases the Impact of Past Expenses on Decision-Making. <i>Cerebral Cortex</i> , 2015, 27, bhv298.	2.9	23
78	Neurostimulation Reveals Context-Dependent Arbitration Between Model-Based and Model-Free Reinforcement Learning. <i>Cerebral Cortex</i> , 2019, 29, 4850-4862.	2.9	21
79	Long-Term Effects of Self-Administered Transcranial Direct Current Stimulation in Episodic Migraine Prevention: Results of a Randomized Controlled Trial. <i>Neuromodulation</i> , 2021, 24, 890-898.	0.8	21
80	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES). <i>Frontiers in Psychology</i> , 2021, 12, 627101.	12.0	21
81	Genetic underpinnings of risky behaviour relate to altered neuroanatomy. <i>Nature Human Behaviour</i> , 2021, 5, 787-794.	12.0	20
82	Dissecting functional contributions of the social brain to strategic behavior. <i>Neuron</i> , 2021, 109, 3323-3337.e5.	8.1	20
83	Transcranial magnetic stimulation of macaque frontal eye fields decreases saccadic reaction time. <i>Experimental Brain Research</i> , 2011, 212, 143-152.	1.5	19
84	Binding oneself to the mast: stimulating frontopolar cortex enhances precommitment. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 635-642.	3.0	18
85	Material-specific episodic memory associates of the psychomotor poverty syndrome in schizophrenia. <i>Cognitive Neuropsychiatry</i> , 2004, 9, 213-227.	1.3	17
86	Saccades to a Remembered Location Elicit Spatially Specific Activation in Human Retinotopic Visual Cortex. <i>Journal of Cognitive Neuroscience</i> , 2008, 21, 230-245.	2.3	17
87	Overcoming Therapeutic Inertia in Multiple Sclerosis Care: A Pilot Randomized Trial Applying the Traffic Light System in Medical Education. <i>Frontiers in Neurology</i> , 2017, 8, 430.	2.4	16
88	Frontopolar theta oscillations link metacognition with prospective decision making. <i>Nature Communications</i> , 2021, 12, 3943.	12.8	15
89	Experimental Methods in Cognitive Neuroscience. , 2014, , 77-108.		14
90	Anticipatory Energization Revealed by Pupil and Brain Activity Guides Human Effort-Based Decision Making. <i>Journal of Neuroscience</i> , 2021, 41, 6328-6342.	3.6	14

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91	Effects of parietal TMS on somatosensory judgments challenge interhemispheric rivalry accounts. <i>Neuropsychologia</i> , 2010, 48, 3470-3481.	1.6	13
92	The right temporoparietal junction enables delay of gratification by allowing decision makers to focus on future events. <i>PLoS Biology</i> , 2020, 18, e3000800.	5.6	11
93	Human brain anatomy reflects separable genetic and environmental components of socioeconomic status. <i>Science Advances</i> , 2022, 8, eabm2923.	10.3	11
94	Shared neural mechanisms between imagined and perceived egocentric motion – A combined GVS and fMRI study. <i>Cortex</i> , 2019, 119, 20-32.	2.4	10
95	Inhibiting Human Aversive Memory by Transcranial Theta-Burst Stimulation to the Primary Sensory Cortex. <i>Biological Psychiatry</i> , 2022, 92, 149-157.	1.3	10
96	Causal contributions of human frontal eye fields to distinct aspects of decision formation. <i>Scientific Reports</i> , 2020, 10, 7317.	3.3	9
97	Effect of an Educational Intervention on Therapeutic Inertia in Neurologists With Expertise in Multiple Sclerosis. <i>JAMA Network Open</i> , 2020, 3, e2022227.	5.9	9
98	Neuro-computational foundations of moral preferences. <i>Social Cognitive and Affective Neuroscience</i> , 2022, 17, 253-265.	3.0	6
99	Effective psychological therapy for PTSD changes the dynamics of specific large-scale brain networks. <i>Human Brain Mapping</i> , 2022, 43, 3207-3220.	3.6	6
100	Neural correlates of visual extinction or awareness in a series of patients with right temporoparietal damage. <i>Cognitive Neuroscience</i> , 2010, 1, 16-25.	1.4	5
101	Enhancing reappraisal of negative emotional memories with transcranial direct current stimulation. <i>Scientific Reports</i> , 2021, 11, 14760.	3.3	5
102	Concurrent TMS and functional magnetic resonance imaging: methods and current advances. , 2012, , .		4
103	Brain Stimulation Studies of Social Norm Compliance: Implications for Personality Disorders?. <i>Psychopathology</i> , 2018, 51, 105-109.	1.5	3
104	Usability of an Educational Intervention to Overcome Therapeutic Inertia in Multiple Sclerosis Care. <i>Frontiers in Neurology</i> , 2018, 9, 522.	2.4	3
105	Emotional expressions associated with therapeutic inertia in multiple sclerosis care. <i>Multiple Sclerosis and Related Disorders</i> , 2019, 34, 17-28.	2.0	3
106	Enhancing models of social and strategic decision making with process tracing and neural data. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2022, 13, e1559.	2.8	3
107	Arousal Optimizes Neural Evidence Representation for Human Decision-Making. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
108	Response to comment on: Exp Brain Res. 2011 May 5th. Transcranial magnetic stimulation of macaque frontal eye fields decreases saccadic reaction time. Pierre Pouget PhD, Nicolas Wattiez MSc and Antoni Valero-Cabre MDPHd. <i>Experimental Brain Research</i> , 2012, 218, 157-158.	1.5	0

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109	Know your targets: Informing NIBS applications in psychiatry by neurocomputational models of behavioral control. L'Encephale, 2019, 45, S63-S64.	0.9	0