# Christian C Ruff

List of Publications by Year
in descending order



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|---|---|---|---|
| 109 papers | 9,442 citations | 41323 49 h-index | 43868 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. Nature Neuroscience, 2018, 21, 174-187. | 7.1 | 615 |
| 2 | Cognitive biases associated with medical decisions: a systematic review. BMC Medical Informatics and Decision Making, 2016, 16, 138. | 1.5 | 574 |
| 3 | The neurobiology of rewards and values in social decision making. Nature Reviews Neuroscience, 2014, 15, 549-562. | 4.9 | 564 |
| 4 | Concurrent TMS-fMRI and Psychophysics Reveal Frontal Influences on Human Retinotopic Visual Cortex. Current Biology, 2006, 16, 1479-1488. | 1.8 | 479 |
| 5 | Right Supramarginal Gyrus Is Crucial to Overcome Emotional Egocentricity Bias in Social Judgments. Journal of Neuroscience, 2013, 33, 15466-15476. | 1.7 | 399 |
| 6 | Changing Social Norm Compliance with Noninvasive Brain Stimulation. Science, 2013, 342, 482-484. | 6.0 | 296 |
| 7 | Distinct Causal Influences of Parietal Versus Frontal Areas on Human Visual Cortex: Evidence from Concurrent TMS-fMRI. Cerebral Cortex, 2008, 18, 817-827. | 1.6 | 282 |
| 8 | Linking Brain Structure and Activation in Temporoparietal Junction to Explain the Neurobiology of Human Altruism. Neuron, 2012, 75, 73-79. | 3.8 | 234 |
| 9 | Reasoning, Models, and Images: Behavioral Measures and Cortical Activity. Journal of Cognitive Neuroscience, 2003, 15, 559-573. | 1.1 | 210 |
| 10 | Mapping causal interregional influences with concurrent TMSâ€“fMRI. Experimental Brain Research, 2008, 191, 383-402. | 0.7 | 197 |
| 11 | The Role of Contralesional Dorsal Premotor Cortex after Stroke as Studied with Concurrent TMS-fMRI. Journal of Neuroscience, 2010, 30, 11926-11937. | 1.7 | 190 |
| 12 | Combining TMS and fMRI: From â€˜virtual lesionsâ€™ to functional-network accounts of cognition. Cortex, 2009, 45, 1043-1049. | 1.1 | 187 |
| 13 | Neural Oscillations and Synchronization Differentially Support Evidence Accumulation in Perceptual and Value-Based Decision Making. Neuron, 2014, 82, 709-720. | 3.8 | 181 |
| 14 | Dorsal Premotor Cortex Exerts State-Dependent Causal Influences on Activity in Contralateral Primary Motor and Dorsal Premotor Cortex. Cerebral Cortex, 2008, 18, 1281-1291. | 1.6 | 173 |
| 15 | fMRI Evidence for a Three-Stage Model of Deductive Reasoning. Journal of Cognitive Neuroscience, 2006, 18, 320-334. | 1.1 | 164 |
| 16 | Functional magnetic resonance imaging detects activation of the visual association cortex during laser acupuncture of the foot in humans. Neuroscience Letters, 2002, 327, 53-56. | 1.0 | 163 |
| 17 | Causal evidence for frontal involvement in memory target maintenance by posterior brain areas during distracter interference of visual working memory. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17510-17515. | 3.3 | 157 |
| 18 | Source monitoring and memory confidence in schizophrenia. Psychological Medicine, 2003, 33, 131-139. | 2.7 | 142 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hemispheric Differences in Frontal and Parietal Influences on Human Occipital Cortex: Direct Confirmation with Concurrent TMSâ€“fMRI. Journal of Cognitive Neuroscience, 2009, 21, 1146-1161. | 1.1 | 133 |
| 20 | A causal account of the brain network computations underlying strategic social behavior. Nature Neuroscience, 2017, 20, 1142-1149. | 7.1 | 126 |
| 21 | Reasoning and working memory: common and distinct neuronal processes. Neuropsychologia, 2003, 41, 1241-1253. | 0.7 | 124 |
| 22 | Efficient coding of subjective value. Nature Neuroscience, 2019, 22, 134-142. | 7.1 | 121 |
| 23 | Reward Facilitates Tactile Judgments and Modulates Hemodynamic Responses in Human Primary Somatosensory Cortex. Journal of Neuroscience, 2008, 28, 8161-8168. | 1.7 | 116 |
| 24 | The Cutaneous Rabbit Illusion Affects Human Primary Sensory Cortex Somatotopically. PLoS Biology, 2006, 4, e69. | 2.6 | 115 |
| 25 | The precision of value-based choices depends causally on fronto-parietal phase coupling. Nature Communications, 2015, 6, 8090. | 5.8 | 114 |
| 26 | Concurrent brain-stimulation and neuroimaging for studies of cognition. Trends in Cognitive Sciences, 2009, 13, 319-327. | 4.0 | 110 |
| 27 | Studying the Role of Human Parietal Cortex in Visuospatial Attention with Concurrent TMS-fMRI. Cerebral Cortex, 2010, 20, 2702-2711. | 1.6 | 110 |
| 28 | Interhemispheric Effect of Parietal TMS on Somatosensory Response Confirmed Directly with Concurrent TMSâ€“fMRI. Journal of Neuroscience, 2008, 28, 13202-13208. | 1.7 | 106 |
| 29 | Neural Coding of Tactile Decisions in the Human Prefrontal Cortex. Journal of Neuroscience, 2006, 26, 12596-12601. | 1.7 | 105 |
| 30 | The Role of the Anterior Cingulate Cortex in Conflict Processing: Evidence from Reverse Stroop Interference. NeuroImage, 2001, 14, 1150-1158. | 2.1 | 102 |
| 31 | Attentional Preparation for a Lateralized Visual Distractor: Behavioral and fMRI Evidence. Journal of Cognitive Neuroscience, 2006, 18, 522-538. | 1.1 | 101 |
| 32 | Brain stimulation reveals crucial role of overcoming self-centeredness in self-control. Science Advances, 2016, 2, e1600992. | 4.7 | 100 |
| 33 | Automatic versus Choice-Dependent Value Representations in the Human Brain. Neuron, 2015, 85, 874-885. | 3.8 | 99 |
| 34 | Brain Network Mechanisms Underlying Motor Enhancement by Transcranial Entrainment of Gamma Oscillations. Journal of Neuroscience, 2016, 36, 12053-12065. | 1.7 | 93 |
| 35 | Influence of Dopaminergically Mediated Reward on Somatosensory Decision-Making. PLoS Biology, 2009, 7, e1000164. | 2.6 | 90 |
| 36 | Spatial Attention Changes Excitability of Human Visual Cortex to Direct Stimulation. Current Biology, 2007, 17, 134-139. | 1.8 | 89 |

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|---|---|---|---|
| 37 | Repetitive Transcranial Magnetic Stimulation-Induced Changes in Sensorimotor Coupling Parallel Improvements of Somatosensation in Humans. Journal of Neuroscience, 2006, 26, 1945-1952. | 1.7 | 85 |
| 38 | Increasing honesty in humans with noninvasive brain stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4360-4364. | 3.3 | 82 |
| 39 | Anticipatory Anxiety Disrupts Neural Valuation during Risky Choice. Journal of Neuroscience, 2015, 35, 3085-3099. | 1.7 | 78 |
| 40 | Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. Brain Stimulation, 2020, 13, 1124-1149. | 0.7 | 78 |
| 41 | Transcranial Stimulation over Frontopolar Cortex Elucidates the Choice Attributes and Neural Mechanisms Used to Resolve Explorationâ€“Exploitation Trade-Offs. Journal of Neuroscience, 2015, 35, 14544-14556. | 1.7 | 76 |
| 42 | Concurrent tACS-fMRI Reveals Causal Influence of Power Synchronized Neural Activity on Resting State fMRI Connectivity. Journal of Neuroscience, 2017, 37, 4766-4777. | 1.7 | 73 |
| 43 | Dynamical Representation of Dominance Relationships in the Human Rostromedial Prefrontal Cortex. Current Biology, 2016, 26, 3107-3115. | 1.8 | 71 |
| 44 | On-Line Attentional Selection From Competing Stimuli in Opposite Visual Fields: Effects on Human Visual Cortex and Control Processes. Journal of Neurophysiology, 2006, 96, 2601-2612. | 0.9 | 67 |
| 45 | Untangling Perceptual Memory: Hysteresis and Adaptation Map into Separate Cortical Networks. Cerebral Cortex, 2014, 24, 1152-1164. | 1.6 | 67 |
| 46 | Readout From Iconic Memory and Selective Spatial Attention Involve Similar Neural Processes. Psychological Science, 2007, 18, 901-909. | 1.8 | 65 |
| 47 | Concurrent TMS-fMRI reveals dynamic interhemispheric influences of the right parietal cortex during exogenously cued visuospatial attention. European Journal of Neuroscience, 2011, 33, 991-1000. | 1.2 | 64 |
| 48 | Parietal Stimulation Decouples Spatial and Feature-Based Attention. Journal of Neuroscience, 2008, 28, 11106-11110. | 1.7 | 61 |
| 49 | fMRI Evidence for a Three-Stage Model of Deductive Reasoning. Journal of Cognitive Neuroscience, 2006, 18, 320-334. | 1.1 | 58 |
| 50 | Methodological considerations regarding the association of Stroop and verbal fluency performance with the symptoms of schizophrenia. Schizophrenia Research, 2003, 61, 207-214. | 1.1 | 50 |
| 51 | Image artifacts in concurrent transcranial magnetic stimulation (TMS) and fMRI caused by leakage currents: Modeling and compensation. Journal of Magnetic Resonance Imaging, 2009, 29, 1211-1217. | 1.9 | 48 |
| 52 | Real-world stress resilience is associated with the responsivity of the locus coeruleus. Nature Communications, 2021, 12, 2275. | 5.8 | 48 |
| 53 | Dissociable mechanisms govern when and how strongly reward attributes affect decisions. Nature Human Behaviour, 2020, 4, 949-963. | 6.2 | 47 |
| 54 | Brain Stimulation Over the Frontopolar Cortex Enhances Motivation to Exert Effort for Reward. Biological Psychiatry, 2018, 84, 38-45. | 0.7 | 44 |

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|---|---|---|---|
| 55 | The neural circuitry of affect-induced distortions of trust. Science Advances, 2019, 5, eaau3413. | 4.7 | 44 |
| 56 | Short- and long-term changes in anterior cingulate activation during resolution of task-set competition. Brain Research, 2006, 1068, 161-169. | 1.1 | 42 |
| 57 | Functional connectivity between prefrontal and parietal cortex drives visuo-spatial attention shifts. Neuropsychologia, 2017, 99, 81-91. | 0.7 | 42 |
| 58 | Decision-making in Multiple Sclerosis: The Role of Aversion to Ambiguity for Therapeutic Inertia among Neurologists (DIScUTIR MS). Frontiers in Neurology, 2017, 8, 65. | 1.1 | 42 |
| 59 | Direct Evidence for Attention-Dependent Influences of the Frontal Eye-Fields on Feature-Responsive Visual Cortex. Cerebral Cortex, 2014, 24, 2815-2821. | 1.6 | 41 |
| 60 | Insufficient sleep: Enhanced riskâ€seeking relates to low local sleep intensity. Annals of Neurology, 2017, 82, 409-418. | 2.8 | 41 |
| 61 | Attentional Bias towards Positive Emotion Predicts Stress Resilience. PLoS ONE, 2016, 11, e0148368. | 1.1 | 41 |
| 62 | Audiovisual synchrony enhances BOLD responses in a brain network including multisensory STS while also enhancing targetâ€detection performance for both modalities. Human Brain Mapping, 2012, 33, 1212-1224. | 1.9 | 40 |
| 63 | A causal role for right temporo-parietal junction in signaling moral conflict. ELife, 2018, 7, . | 2.8 | 35 |
| 64 | Neurocomputational approaches to social behavior. Current Opinion in Psychology, 2018, 24, 41-47. | 2.5 | 32 |
| 65 | Integrated Bayesian models of learning and decision making for saccadic eye movements. Neural Networks, 2008, 21, 1247-1260. | 3.3 | 31 |
| 66 | New approaches to the study of human brain networks underlying spatial attention and related processes. Experimental Brain Research, 2010, 206, 153-162. | 0.7 | 31 |
| 67 | Matched-filter acquisition for BOLD fMRI. NeuroImage, 2014, 100, 145-160. | 2.1 | 31 |
| 68 | Computational and neurobiological foundations of leadership decisions. Science, 2018, 361, . | 6.0 | 30 |
| 69 | Role of the locus coeruleus arousal system in cognitive control. Journal of Neuroendocrinology, 2020, 32, e12890. | 1.2 | 30 |
| 70 | Topâ€“Down Modulation of Human Early Visual Cortex after Stimulus Offset Supports Successful Postcued Report. Journal of Cognitive Neuroscience, 2011, 23, 1921-1934. | 1.1 | 28 |
| 71 | Transcranial direct current stimulation of the posterior parietal cortex modulates arithmetic learning. European Journal of Neuroscience, 2015, 42, 1667-1674. | 1.2 | 27 |
| 72 | Neurocognitive Effects of Transcranial Direct Current Stimulation in Arithmetic Learning and Performance: A Simultaneous tDCS-fMRI Study. Brain Stimulation, 2016, 9, 850-858. | 0.7 | 27 |

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|---|---|---|---|
| 73 | Cortical responses to changes in acoustic regularity are differentially modulated by attentional load. NeuroImage, 2012, 59, 1932-1941. | 2.1 | 25 |
| 74 | Disturbance of approachâ€avoidance behaviors in nonâ€human primates by stimulation of the limbic territories of basal ganglia and anterior insula. European Journal of Neuroscience, 2019, 49, 687-700. | 1.2 | 25 |
| 75 | Sensory processing: who's in (topâ€down) control?. Annals of the New York Academy of Sciences, 2013, 1296, 88-107. | 1.8 | 24 |
| 76 | Temporal Structure and Complexity Affect Audio-Visual Correspondence Detection. Frontiers in Psychology, 2012, 3, 619. | 1.1 | 23 |
| 77 | Transcranial Stimulation Over the Dorsolateral Prefrontal Cortex Increases the Impact of Past Expenses on Decision-Making. Cerebral Cortex, 2015, 27, bhv298. | 1.6 | 23 |
| 78 | Neurostimulation Reveals Context-Dependent Arbitration Between Model-Based and Model-Free Reinforcement Learning. Cerebral Cortex, 2019, 29, 4850-4862. | 1.6 | 21 |
| 79 | Long-Term Effects of Self-Administered Transcranial Direct Current Stimulation in Episodic Migraine Prevention: Results of a Randomized Controlled Trial. Neuromodulation, 2021, 24, 890-898. | 0.4 | 21 |
| 80 | A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T | 5.5 | 21 |
| 81 | Genetic underpinnings of risky behaviour relate to altered neuroanatomy. Nature Human Behaviour, 2021, 5, 787-794. | 6.2 | 20 |
| 82 | Dissecting functional contributions of the social brain to strategic behavior. Neuron, 2021, 109, 3323-3337.e5. | 3.8 | 20 |
| 83 | Transcranial magnetic stimulation of macaque frontal eye fields decreases saccadic reaction time. Experimental Brain Research, 2011, 212, 143-152. | 0.7 | 19 |
| 84 | Binding oneself to the mast: stimulating frontopolar cortex enhances precommitment. Social Cognitive and Affective Neuroscience, 2017, 12, 635-642. | 1.5 | 18 |
| 85 | Materialâ€specific episodic memory associates of the psychomotor poverty syndrome in schizophrenia. Cognitive Neuropsychiatry, 2004, 9, 213-227. | 0.7 | 17 |
| 86 | Saccades to a Remembered Location Elicit Spatially Specific Activation in Human Retinotopic Visual Cortex. Journal of Cognitive Neuroscience, 2008, 21, 230-245. | 1.1 | 17 |
| 87 | Overcoming Therapeutic Inertia in Multiple Sclerosis Care: A Pilot Randomized Trial Applying the Traffic Light System in Medical Education. Frontiers in Neurology, 2017, 8, 430. | 1.1 | 16 |
| 88 | Frontopolar theta oscillations link metacognition with prospective decision making. Nature Communications, 2021, 12, 3943. | 5.8 | 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. Journal of Neuroscience, 2021, 41, 6328-6342. | 1.7 | 14 |

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| 91 | Effects of parietal TMS on somatosensory judgments challenge interhemispheric rivalry accounts. Neuropsychologia, 2010, 48, 3470-3481. | 0.7 | 13 |
| 92 | The right temporoparietal junction enables delay of gratification by allowing decision makers to focus on future events. PLoS Biology, 2020, 18, e3000800. | 2.6 | 11 |
| 93 | Human brain anatomy reflects separable genetic and environmental components of socioeconomic status. Science Advances, 2022, 8, eabm2923. | 4.7 | 11 |
| 94 | Shared neural mechanisms between imagined and perceived egocentric motion â€“ A combined GVS and fMRI study. Cortex, 2019, 119, 20-32. | 1.1 | 10 |
| 95 | Inhibiting Human Aversive Memory by Transcranial Theta-Burst Stimulation to the Primary Sensory Cortex. Biological Psychiatry, 2022, 92, 149-157. | 0.7 | 10 |
| 96 | Causal contributions of human frontal eye fields to distinct aspects of decision formation. Scientific Reports, 2020, 10, 7317. | 1.6 | 9 |
| 97 | Effect of an Educational Intervention on Therapeutic Inertia in Neurologists With Expertise in Multiple Sclerosis. JAMA Network Open, 2020, 3, e2022227. | 2.8 | 9 |
| 98 | Neuro-computational foundations of moral preferences. Social Cognitive and Affective Neuroscience, 2022, 17, 253-265. | 1.5 | 6 |
| 99 | Effective psychological therapy for <scp>PTSD</scp> changes the dynamics of specific largeâ€scale brain networks. Human Brain Mapping, 2022, 43, 3207-3220. | 1.9 | 6 |
| 100 | Neural correlates of visual extinction or awareness in a series of patients with right temporoparietal damage. Cognitive Neuroscience, 2010, 1, 16-25. | 0.6 | 5 |
| 101 | Enhancing reappraisal of negative emotional memories with transcranial direct current stimulation. Scientific Reports, 2021, 11, 14760. | 1.6 | 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?. Psychopathology, 2018, 51, 105-109. | 1.1 | 3 |
| 104 | Usability of an Educational Intervention to Overcome Therapeutic Inertia in Multiple Sclerosis Care. Frontiers in Neurology, 2018, 9, 522. | 1.1 | 3 |
| 105 | Emotional expressions associated with therapeutic inertia in multiple sclerosis care. Multiple Sclerosis and Related Disorders, 2019, 34, 17-28. | 0.9 | 3 |
| 106 | Enhancing models of social and strategic decision making with process tracing and neural data. Wiley Interdisciplinary Reviews: Cognitive Science, 2022, 13, e1559. | 1.4 | 3 |
| 107 | Arousal Optimizes Neural Evidence Representation for Human Decision-Making. SSRN Electronic Journal, 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. Experimental Brain Research, 2012, 218, 157-158. | 0.7 | 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. | 0.3 | 0 |