Rhodri Cusack

List of Publications by Year
in descending order

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103	6,890	76196	71532
papers	citations	40 h-index	76 g-index

117	117	117	7548
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The frontoâ€parietal network is not a flexible hub during naturalistic cognition. Human Brain Mapping, 2022, 43, 750-759.	1.9	8
2	Online testing in developmental science: A guide to design and implementation. Advances in Child Development and Behavior, 2022, 62, 93-125.	0.7	4
3	Typical and disrupted brain circuitry for conscious awareness in full-term and preterm infants. Brain Communications, 2022, 4, fcac071.	1.5	10
4	Naturalistic stimuli reveal a sensitive period in cross modal responses of visual cortex: Evidence from adult-onset blindness. Neuropsychologia, 2022, 172, 108277.	0.7	3
5	Lessons from infant learning for unsupervised machine learning. Nature Machine Intelligence, 2022, 4, 510-520.	8.3	14
6	A Global Perspective on Testing Infants Online: Introducing ManyBabies-AtHome. Frontiers in Psychology, 2021, 12, 703234.	1.1	13
7	Physical Activity Predicts Population-Level Age-Related Differences in Frontal White Matter. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 236-243.	1.7	22
8	Cognitive Diversity in a Healthy Aging Cohort: Cross-Domain Cognition in the Cam-CAN Project. Journal of Aging and Health, 2020, 32, 1029-1041.	0.9	15
9	Quantifying Sources of Variability in Infancy Research Using the Infant-Directed-Speech Preference. Advances in Methods and Practices in Psychological Science, 2020, 3, 24-52.	5.4	124
10	Experience Transforms Conjunctive Object Representations: Neural Evidence for Unitization After Visual Expertise. Cerebral Cortex, 2020, 30, 2721-2739.	1.6	16
11	Age-related reduction in motor adaptation: brain structural correlates and the role of explicit memory. Neurobiology of Aging, 2020, 90, 13-23.	1.5	42
12	Rapid and coarse face detection: With a lack of evidence for a nasal-temporal asymmetry. Attention, Perception, and Psychophysics, 2020, 82, 1883-1895.	0.7	2
13	Naturalistic Audio-Movies and Narrative Synchronize â€œVisualâ€•Cortices across Congenitally Blind But Not Sighted Individuals. Journal of Neuroscience, 2019, 39, 8940-8948.	1.7	14
14	Using automatic face analysis to score infant behaviour from video collected online. , 2019, 54, 1-12.		24
15	Strong and specific associations between cardiovascular risk factors and white matter micro- and macrostructure in healthy aging. Neurobiology of Aging, 2019, 74, 46-55.	1.5	38
16	Auditory structural connectivity in preterm and healthy term infants during the first postnatal year. Developmental Psychobiology, 2018, 60, 256-264.	0.9	6
17	Disruption to functional networks in neonates with perinatal brain injury predicts motor skills at 8â€ months. NeuroImage: Clinical, 2018, 18, 399-406.	1.4	34
18	Methodological challenges in the comparison of infant fMRI across age groups. Developmental Cognitive Neuroscience, 2018, 33, 194-205.	1.9	34

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19	Functional diversity of brain networks supports consciousness and verbal intelligence. Scientific Reports, 2018, 8, 13259.	1.6	45
20	Animacy and realâ€world size shape object representations in the human medial temporal lobes. Human Brain Mapping, 2018, 39, 3779-3792.	1.9	8
21	Do Patients Thought to Lack Consciousness Retain the Capacity for Internal as Well as External Awareness?. Frontiers in Neurology, 2018, 9, 492.	1.1	20
22	Why does language not emerge until the second year?. Hearing Research, 2018, 366, 75-81.	0.9	12
23	Altered activation and functional asymmetry of exner's area but not the visual word form area in a child with sudden-onset, persistent mirror writing. Neuropsychologia, 2018, 117, 322-331.	0.7	1
24	Visual short-term memory through the lifespan: Preserved benefits of context and metacognition.. Psychology and Aging, 2018, 33, 841-854.	1.4	26
25	The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) data repository: Structural and functional MRI, MEG, and cognitive data from a cross-sectional adult lifespan sample. NeuroImage, 2017, 144, 262-269.	2.1	487
26	Evaluating Affordable Cranial Ultrasonography in East African Neonatal Intensive Care Units. Ultrasound in Medicine and Biology, 2017, 43, 119-128.	0.7	6
27	Online recruitment and testing of infants with Mechanical Turk. Journal of Experimental Child Psychology, 2017, 156, 168-178.	0.7	28
28	Adult-like processing of naturalistic sounds in auditory cortex by 3- and 9-month old infants. NeuroImage, 2017, 157, 623-634.	2.1	53
29	Brainstem shape is affected by clinical course in the neonatal intensive care unit. NeuroImage: Clinical, 2017, 15, 62-70.	1.4	5
30	The neural basis of precise visual short-term memory for complex recognisable objects. NeuroImage, 2017, 159, 131-145.	2.1	9
31	Using Functional Magnetic Resonance Imaging to Detect Preserved Function in a Preterm Infant with Brain Injury. Journal of Pediatrics, 2017, 189, 213-217.e1.	0.9	7
32	A neural window on the emergence of cognition. Annals of the New York Academy of Sciences, 2016, 1369, 7-23.	1.8	15
33	Disentangling Representations of Object and Grasp Properties in the Human Brain. Journal of Neuroscience, 2016, 36, 7648-7662.	1.7	88
34	Semantic and emotional content of imagined representations in human occipitotemporal cortex. Scientific Reports, 2016, 6, 20232.	1.6	14
35	Conjunctive Coding of Complex Object Features. Cerebral Cortex, 2016, 26, 2271-2282.	1.6	63
36	Idiosyncratic responding during movie-watching predicted by age differences in attentional control. Neurobiology of Aging, 2015, 36, 3045-3055.	1.5	74

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37	Expert and crowd-sourced validation of an individualized sleep spindle detection method employing complex demodulation and individualized normalization. Frontiers in Human Neuroscience, 2015, 9, 507.	1.0	46
38	Tunes stuck in your brain: The frequency and affective evaluation of involuntary musical imagery correlate with cortical structure. Consciousness and Cognition, 2015, 35, 66-77.	0.8	48
39	Flexible Information Coding in Human Auditory Cortex during Perception, Imagery, and STM of Complex Sounds. Journal of Cognitive Neuroscience, 2015, 27, 1322-1333.	1.1	42
40	Neuroimaging of the Mindâ€™s Ear Using Representational Similarity Analysis. , 2015, , 229-237.		0
41	Optimizing Stimulation and Analysis Protocols for Neonatal fMRI. PLoS ONE, 2015, 10, e0120202.	1.1	15
42	Time to wave good-bye to phase scrambling: Creating controlled scrambled images using diffeomorphic transformations. Journal of Vision, 2014, 14, 6-6.	0.1	77
43	The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) study protocol: a cross-sectional, lifespan, multidisciplinary examination of healthy cognitive ageing. BMC Neurology, 2014, 14, 204.	0.8	430
44	A common neural code for similar conscious experiences in different individuals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14277-14282.	3.3	143
45	Resources required for processing ambiguous complex features in vision and audition are modality specific. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 336-353.	1.0	0
46	Strength of Retinotopic Representation of Visual Memories is Modulated by Strategy. Cerebral Cortex, 2014, 24, 281-292.	1.6	9
47	Automatic analysis (aa): efficient neuroimaging workflows and parallel processing using Matlab and XML. Frontiers in Neuroinformatics, 2014, 8, 90.	1.3	116
48	Assessing residual reasoning ability in overtly non-communicative patients using fMRI. NeuroImage: Clinical, 2013, 2, 174-183.	1.4	25
49	The Brain's Silent Messenger: Using Selective Attention to Decode Human Thought for Brain-Based Communication. Journal of Neuroscience, 2013, 33, 9385-9393.	1.7	71
50	Multivoxel Patterns Reveal Functionally Differentiated Networks Underlying Auditory Feedback Processing of Speech. Journal of Neuroscience, 2013, 33, 4339-4348.	1.7	23
51	Adjusting for global effects in voxel-based morphometry: Gray matter decline in normal aging. NeuroImage, 2012, 60, 1503-1516.	2.1	166
52	Are the senses enough for sense? Early high-level feedback shapes our comprehension of multisensory objects. Frontiers in Integrative Neuroscience, 2012, 6, 82.	1.0	13
53	Seeing different objects in different ways: Measuring ventral visual tuning to sensory and semantic features with dynamically adaptive imaging. Human Brain Mapping, 2012, 33, 387-397.	1.9	11
54	Vascular contributions to pattern analysis: Comparing gradient and spin echo fMRI at 3T. NeuroImage, 2011, 56, 643-650.	2.1	10

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55	Stimulus-specific suppression preserves information in auditory short-term memory. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12961-12966.	3.3	72
56	The Temporal Evolution of Electromagnetic Markers Sensitive to the Capacity Limits of Visual Short-Term Memory. Frontiers in Human Neuroscience, 2011, 5, 18.	1.0	24
57	Encoding strategy accounts for individual differences in change detection measures of VSTM. Neuropsychologia, 2011, 49, 1476-1486.	0.7	54
58	An objective measurement of the build-up of auditory streaming and of its modulation by attention.. Journal of Experimental Psychology: Human Perception and Performance, 2011, 37, 1253-1262.	0.7	63
59	Points in Mental Space: an Interdisciplinary Study of Imagery in Movement Creation. Dance Research, 2011, 29, 404-432.	0.1	26
60	Fluid intelligence loss linked to restricted regions of damage within frontal and parietal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14899-14902.	3.3	183
61	Cortical Mechanisms for the Segregation and Representation of Acoustic Textures. Journal of Neuroscience, 2010, 30, 2070-2076.	1.7	31
62	Discrete Object Representation, Attention Switching, and Task Difficulty in the Parietal Lobe. Journal of Cognitive Neuroscience, 2010, 22, 32-47.	1.1	46
63	Listening to Your Heart. Psychological Science, 2010, 21, 1835-1844.	1.8	387
64	How does an fMRI voxel sample the neuronal activity pattern: Compact-kernel or complex spatiotemporal filter?. NeuroImage, 2010, 49, 1965-1976.	2.1	168
65	Objective Measures of Auditory Scene Analysis. , 2010, , 507-519.		10
66	In vivo measurements of blood viscosity and wall stiffness in the carotid using PC-MRI. European Journal of Computational Mechanics, 2009, 18, 9-20.	0.6	8
67	Encoding strategy and not visual working memory capacity correlates with intelligence. Psychonomic Bulletin and Review, 2009, 16, 641-647.	1.4	68
68	Top-Down Activation of Shape-Specific Population Codes in Visual Cortex during Mental Imagery. Journal of Neuroscience, 2009, 29, 1565-1572.	1.7	282
69	Flexible, Capacity-Limited Activity of Posterior Parietal Cortex in Perceptual as well as Visual Short-Term Memory Tasks. Cerebral Cortex, 2008, 18, 1788-1798.	1.6	104
70	An investigation of the implicit control of the processing of negative pictures.. Emotion, 2008, 8, 828-837.	1.5	11
71	The effects of time-on-task and concurrent cognitive load on normal visuospatial bias.. Neuropsychology, 2008, 22, 545-552.	1.0	30
72	An Information Theoretic Characterisation of Auditory Encoding. PLoS Biology, 2007, 5, e288.	2.6	67

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73	Robust unwrapping algorithm for three-dimensional phase volumes of arbitrary shape containing knotted phase singularity loops. Optical Engineering, 2007, 46, 085601.	0.5	9
74	The P300 as a Marker of Waning Attention and Error Propensity. Computational Intelligence and Neuroscience, 2007, 2007, 1-9.	1.1	27
75	Customised Cytoarchitectonic Probability Maps Using Deformable Registration: Primary Auditory Cortex. , 2007, 10, 760-768.		5
76	Dissociable contributions of the mid-ventrolateral frontal cortex and the medial temporal lobe system to human memory. NeuroImage, 2006, 31, 1790-1801.	2.1	30
77	Extending the dynamic range of phase contrast magnetic resonance velocity imaging using advanced higher-dimensional phase unwrapping algorithms. Journal of the Royal Society Interface, 2006, 3, 415-427.	1.5	29
78	Branch cut surface placement for unwrapping of undersampled three-dimensional phase data: application to magnetic resonance imaging arterial flow mapping. Applied Optics, 2006, 45, 2711.	2.1	34
79	Is susceptibility to perceptual migration and fusion modality-specific or multimodal?. Neuropsychologia, 2006, 44, 693-710.	0.7	2
80	Modulation of spatial bias in the dual task paradigm: Evidence from patients with unilateral parietal lesions and controls. Neuropsychologia, 2006, 44, 1325-1335.	0.7	42
81	Robust three-dimensional phase unwrapping algorithm for phase contrast magnetic resonance velocity imaging. , 2006, , 74-81.		0
82	Automated post-hoc noise cancellation tool for audio recordings acquired in an MRI scanner. Human Brain Mapping, 2005, 24, 299-304.	1.9	36
83	Performance measures of auditory organization. , 2005, , 202-210.		12
84	The Intraparietal Sulcus and Perceptual Organization. Journal of Cognitive Neuroscience, 2005, 17, 641-651.	1.1	214
85	An evaluation of the use of passive shimming to improve frontal sensitivity in fMRI. NeuroImage, 2005, 24, 82-91.	2.1	49
86	Attentional Functions of Parietal and Frontal Cortex. Cerebral Cortex, 2005, 15, 1469-1484.	1.6	177
87	Effects of Attention on Auditory Perceptual Organization. , 2005, , 317-323.		4
88	Effects of Location, Frequency Region, and Time Course of Selective Attention on Auditory Scene Analysis.. Journal of Experimental Psychology: Human Perception and Performance, 2004, 30, 643-656.	0.7	236
89	Effects of differences in the pattern of amplitude envelopes across harmonics on auditory stream segregation. Hearing Research, 2004, 193, 95-104.	0.9	12
90	Categorical and Dimensional Reports of Experienced Affect to Emotion-Inducing Pictures in Depression.. Journal of Abnormal Psychology, 2004, 113, 654-660.	2.0	91

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91	Auditory Perceptual Organization Inside and Outside the Laboratory. , 2004, , 15-48.		16
92	An Evaluation of the Use of Magnetic Field Maps to Undistort Echo-Planar Images. NeuroImage, 2003, 18, 127-142.	2.1	205
93	Cross-Modal and Non-Sensory Influences on Auditory Streaming. Perception, 2003, 32, 1393-1402.	0.5	63
94	Perceptual asymetries in audition.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 713-725.	0.7	60
95	New Robust 3-D Phase Unwrapping Algorithms: Application to Magnetic Field Mapping and Undistorting Echoplanar Images. NeuroImage, 2002, 16, 754-764.	2.1	237
96	Auditory Midline and Spatial Discrimination in Patients with Unilateral Neglect. Cortex, 2001, 37, 706-709.	1.1	17
97	Effects of attention and unilateral neglect on auditory stream segregation.. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 115-127.	0.7	272
98	Effects of attention and unilateral neglect on auditory stream segregation. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 115-27.	0.7	129
99	Effects of differences in timbre on sequential grouping. Perception & Psychophysics, 2000, 62, 1112-1120.	2.3	109
100	Neglect Between but Not Within Auditory Objects. Journal of Cognitive Neuroscience, 2000, 12, 1056-1065.	1.1	58
101	Effects of Similarity in Bandwidth on the Auditory Sequential Streaming of Two-Tone Complexes. Perception, 1999, 28, 1281-1289.	0.5	27
102	Perceptual segregation by timbre: Streaming by bandwidth but not periodicity. Journal of the Acoustical Society of America, 1996, 100, 2752-2752.	0.5	0
103	Improved noise-immune phase-unwrapping algorithm. Applied Optics, 1995, 34, 781.	2.1	159