

Rhodri Cusack

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

6,890
citations

76196

40
h-index

71532

76
g-index

117
all docs

117
docs citations

117
times ranked

7548
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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. <i>NeuroImage</i> , 2017, 144, 262-269. | 2.1 | 487 |
| 2 | The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) study protocol: a cross-sectional, lifespan, multidisciplinary examination of healthy cognitive ageing. <i>BMC Neurology</i> , 2014, 14, 204. | 0.8 | 430 |
| 3 | Listening to Your Heart. <i>Psychological Science</i> , 2010, 21, 1835-1844. | 1.8 | 387 |
| 4 | Top-Down Activation of Shape-Specific Population Codes in Visual Cortex during Mental Imagery. <i>Journal of Neuroscience</i> , 2009, 29, 1565-1572. | 1.7 | 282 |
| 5 | Effects of attention and unilateral neglect on auditory stream segregation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2001, 27, 115-127. | 0.7 | 272 |
| 6 | New Robust 3-D Phase Unwrapping Algorithms: Application to Magnetic Field Mapping and Undistorting Echoplanar Images. <i>NeuroImage</i> , 2002, 16, 754-764. | 2.1 | 237 |
| 7 | Effects of Location, Frequency Region, and Time Course of Selective Attention on Auditory Scene Analysis.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2004, 30, 643-656. | 0.7 | 236 |
| 8 | The Intraparietal Sulcus and Perceptual Organization. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 641-651. | 1.1 | 214 |
| 9 | An Evaluation of the Use of Magnetic Field Maps to Undistort Echo-Planar Images. <i>NeuroImage</i> , 2003, 18, 127-142. | 2.1 | 205 |
| 10 | Fluid intelligence loss linked to restricted regions of damage within frontal and parietal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14899-14902. | 3.3 | 183 |
| 11 | Attentional Functions of Parietal and Frontal Cortex. <i>Cerebral Cortex</i> , 2005, 15, 1469-1484. | 1.6 | 177 |
| 12 | How does an fMRI voxel sample the neuronal activity pattern: Compact-kernel or complex spatiotemporal filter?. <i>NeuroImage</i> , 2010, 49, 1965-1976. | 2.1 | 168 |
| 13 | Adjusting for global effects in voxel-based morphometry: Gray matter decline in normal aging. <i>NeuroImage</i> , 2012, 60, 1503-1516. | 2.1 | 166 |
| 14 | Improved noise-immune phase-unwrapping algorithm. <i>Applied Optics</i> , 1995, 34, 781. | 2.1 | 159 |
| 15 | A common neural code for similar conscious experiences in different individuals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14277-14282. | 3.3 | 143 |
| 16 | Effects of attention and unilateral neglect on auditory stream segregation. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2001, 27, 115-27. | 0.7 | 129 |
| 17 | Quantifying Sources of Variability in Infancy Research Using the Infant-Directed-Speech Preference. <i>Advances in Methods and Practices in Psychological Science</i> , 2020, 3, 24-52. | 5.4 | 124 |
| 18 | Automatic analysis (aa): efficient neuroimaging workflows and parallel processing using Matlab and XML. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 90. | 1.3 | 116 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Effects of differences in timbre on sequential grouping. <i>Perception & Psychophysics</i> , 2000, 62, 1112-1120. | 2.3 | 109 |
| 20 | Flexible, Capacity-Limited Activity of Posterior Parietal Cortex in Perceptual as well as Visual Short-Term Memory Tasks. <i>Cerebral Cortex</i> , 2008, 18, 1788-1798. | 1.6 | 104 |
| 21 | Categorical and Dimensional Reports of Experienced Affect to Emotion-Inducing Pictures in Depression.. <i>Journal of Abnormal Psychology</i> , 2004, 113, 654-660. | 2.0 | 91 |
| 22 | Disentangling Representations of Object and Grasp Properties in the Human Brain. <i>Journal of Neuroscience</i> , 2016, 36, 7648-7662. | 1.7 | 88 |
| 23 | Time to wave good-bye to phase scrambling: Creating controlled scrambled images using diffeomorphic transformations. <i>Journal of Vision</i> , 2014, 14, 6-6. | 0.1 | 77 |
| 24 | Idiosyncratic responding during movie-watching predicted by age differences in attentional control. <i>Neurobiology of Aging</i> , 2015, 36, 3045-3055. | 1.5 | 74 |
| 25 | Stimulus-specific suppression preserves information in auditory short-term memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12961-12966. | 3.3 | 72 |
| 26 | The Brain's Silent Messenger: Using Selective Attention to Decode Human Thought for Brain-Based Communication. <i>Journal of Neuroscience</i> , 2013, 33, 9385-9393. | 1.7 | 71 |
| 27 | Encoding strategy and not visual working memory capacity correlates with intelligence. <i>Psychonomic Bulletin and Review</i> , 2009, 16, 641-647. | 1.4 | 68 |
| 28 | An Information Theoretic Characterisation of Auditory Encoding. <i>PLoS Biology</i> , 2007, 5, e288. | 2.6 | 67 |
| 29 | Cross-Modal and Non-Sensory Influences on Auditory Streaming. <i>Perception</i> , 2003, 32, 1393-1402. | 0.5 | 63 |
| 30 | An objective measurement of the build-up of auditory streaming and of its modulation by attention.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2011, 37, 1253-1262. | 0.7 | 63 |
| 31 | Conjunctive Coding of Complex Object Features. <i>Cerebral Cortex</i> , 2016, 26, 2271-2282. | 1.6 | 63 |
| 32 | Perceptual asymmetries in audition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2003, 29, 713-725. | 0.7 | 60 |
| 33 | Neglect Between but Not Within Auditory Objects. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 1056-1065. | 1.1 | 58 |
| 34 | Encoding strategy accounts for individual differences in change detection measures of VSTM. <i>Neuropsychologia</i> , 2011, 49, 1476-1486. | 0.7 | 54 |
| 35 | Adult-like processing of naturalistic sounds in auditory cortex by 3- and 9-month old infants. <i>NeuroImage</i> , 2017, 157, 623-634. | 2.1 | 53 |
| 36 | An evaluation of the use of passive shimming to improve frontal sensitivity in fMRI. <i>NeuroImage</i> , 2005, 24, 82-91. | 2.1 | 49 |

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|----|--|-----|-----------|
| 37 | Tunes stuck in your brain: The frequency and affective evaluation of involuntary musical imagery correlate with cortical structure. <i>Consciousness and Cognition</i> , 2015, 35, 66-77. | 0.8 | 48 |
| 38 | Discrete Object Representation, Attention Switching, and Task Difficulty in the Parietal Lobe. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 32-47. | 1.1 | 46 |
| 39 | Expert and crowd-sourced validation of an individualized sleep spindle detection method employing complex demodulation and individualized normalization. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 507. | 1.0 | 46 |
| 40 | Functional diversity of brain networks supports consciousness and verbal intelligence. <i>Scientific Reports</i> , 2018, 8, 13259. | 1.6 | 45 |
| 41 | Modulation of spatial bias in the dual task paradigm: Evidence from patients with unilateral parietal lesions and controls. <i>Neuropsychologia</i> , 2006, 44, 1325-1335. | 0.7 | 42 |
| 42 | Flexible Information Coding in Human Auditory Cortex during Perception, Imagery, and STM of Complex Sounds. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 1322-1333. | 1.1 | 42 |
| 43 | Age-related reduction in motor adaptation: brain structural correlates and the role of explicit memory. <i>Neurobiology of Aging</i> , 2020, 90, 13-23. | 1.5 | 42 |
| 44 | Strong and specific associations between cardiovascular risk factors and white matter micro- and macrostructure in healthy aging. <i>Neurobiology of Aging</i> , 2019, 74, 46-55. | 1.5 | 38 |
| 45 | Automated post-hoc noise cancellation tool for audio recordings acquired in an MRI scanner. <i>Human Brain Mapping</i> , 2005, 24, 299-304. | 1.9 | 36 |
| 46 | Branch cut surface placement for unwrapping of undersampled three-dimensional phase data: application to magnetic resonance imaging arterial flow mapping. <i>Applied Optics</i> , 2006, 45, 2711. | 2.1 | 34 |
| 47 | Disruption to functional networks in neonates with perinatal brain injury predicts motor skills at 8 months. <i>NeuroImage: Clinical</i> , 2018, 18, 399-406. | 1.4 | 34 |
| 48 | Methodological challenges in the comparison of infant fMRI across age groups. <i>Developmental Cognitive Neuroscience</i> , 2018, 33, 194-205. | 1.9 | 34 |
| 49 | Cortical Mechanisms for the Segregation and Representation of Acoustic Textures. <i>Journal of Neuroscience</i> , 2010, 30, 2070-2076. | 1.7 | 31 |
| 50 | Dissociable contributions of the mid-ventrolateral frontal cortex and the medial temporal lobe system to human memory. <i>NeuroImage</i> , 2006, 31, 1790-1801. | 2.1 | 30 |
| 51 | The effects of time-on-task and concurrent cognitive load on normal visuospatial bias.. <i>Neuropsychology</i> , 2008, 22, 545-552. | 1.0 | 30 |
| 52 | Extending the dynamic range of phase contrast magnetic resonance velocity imaging using advanced higher-dimensional phase unwrapping algorithms. <i>Journal of the Royal Society Interface</i> , 2006, 3, 415-427. | 1.5 | 29 |
| 53 | Online recruitment and testing of infants with Mechanical Turk. <i>Journal of Experimental Child Psychology</i> , 2017, 156, 168-178. | 0.7 | 28 |
| 54 | Effects of Similarity in Bandwidth on the Auditory Sequential Streaming of Two-Tone Complexes. <i>Perception</i> , 1999, 28, 1281-1289. | 0.5 | 27 |

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|----|--|-----|-----------|
| 55 | The P300 as a Marker of Waning Attention and Error Propensity. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-9. | 1.1 | 27 |
| 56 | Points in Mental Space: an Interdisciplinary Study of Imagery in Movement Creation. <i>Dance Research</i> , 2011, 29, 404-432. | 0.1 | 26 |
| 57 | Visual short-term memory through the lifespan: Preserved benefits of context and metacognition.. <i>Psychology and Aging</i> , 2018, 33, 841-854. | 1.4 | 26 |
| 58 | Assessing residual reasoning ability in overtly non-communicative patients using fMRI. <i>NeuroImage: Clinical</i> , 2013, 2, 174-183. | 1.4 | 25 |
| 59 | The Temporal Evolution of Electromagnetic Markers Sensitive to the Capacity Limits of Visual Short-Term Memory. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 18. | 1.0 | 24 |
| 60 | Using automatic face analysis to score infant behaviour from video collected online. , 2019, 54, 1-12. | | 24 |
| 61 | Multivoxel Patterns Reveal Functionally Differentiated Networks Underlying Auditory Feedback Processing of Speech. <i>Journal of Neuroscience</i> , 2013, 33, 4339-4348. | 1.7 | 23 |
| 62 | Physical Activity Predicts Population-Level Age-Related Differences in Frontal White Matter. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 236-243. | 1.7 | 22 |
| 63 | Do Patients Thought to Lack Consciousness Retain the Capacity for Internal as Well as External Awareness?. <i>Frontiers in Neurology</i> , 2018, 9, 492. | 1.1 | 20 |
| 64 | Auditory Midline and Spatial Discrimination in Patients with Unilateral Neglect. <i>Cortex</i> , 2001, 37, 706-709. | 1.1 | 17 |
| 65 | Experience Transforms Conjunctive Object Representations: Neural Evidence for Unitization After Visual Expertise. <i>Cerebral Cortex</i> , 2020, 30, 2721-2739. | 1.6 | 16 |
| 66 | Auditory Perceptual Organization Inside and Outside the Laboratory. , 2004, , 15-48. | | 16 |
| 67 | A neural window on the emergence of cognition. <i>Annals of the New York Academy of Sciences</i> , 2016, 1369, 7-23. | 1.8 | 15 |
| 68 | Cognitive Diversity in a Healthy Aging Cohort: Cross-Domain Cognition in the Cam-CAN Project. <i>Journal of Aging and Health</i> , 2020, 32, 1029-1041. | 0.9 | 15 |
| 69 | Optimizing Stimulation and Analysis Protocols for Neonatal fMRI. <i>PLoS ONE</i> , 2015, 10, e0120202. | 1.1 | 15 |
| 70 | Semantic and emotional content of imagined representations in human occipitotemporal cortex. <i>Scientific Reports</i> , 2016, 6, 20232. | 1.6 | 14 |
| 71 | Naturalistic Audio-Movies and Narrative Synchronize "Visual" Cortices across Congenitally Blind But Not Sighted Individuals. <i>Journal of Neuroscience</i> , 2019, 39, 8940-8948. | 1.7 | 14 |
| 72 | Lessons from infant learning for unsupervised machine learning. <i>Nature Machine Intelligence</i> , 2022, 4, 510-520. | 8.3 | 14 |

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|----|---|-----|-----------|
| 73 | Are the senses enough for sense? Early high-level feedback shapes our comprehension of multisensory objects. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 82. | 1.0 | 13 |
| 74 | A Global Perspective on Testing Infants Online: Introducing ManyBabies-AtHome. <i>Frontiers in Psychology</i> , 2021, 12, 703234. | 1.1 | 13 |
| 75 | Effects of differences in the pattern of amplitude envelopes across harmonics on auditory stream segregation. <i>Hearing Research</i> , 2004, 193, 95-104. | 0.9 | 12 |
| 76 | Performance measures of auditory organization. , 2005, , 202-210. | | 12 |
| 77 | Why does language not emerge until the second year?. <i>Hearing Research</i> , 2018, 366, 75-81. | 0.9 | 12 |
| 78 | An investigation of the implicit control of the processing of negative pictures.. <i>Emotion</i> , 2008, 8, 828-837. | 1.5 | 11 |
| 79 | Seeing different objects in different ways: Measuring ventral visual tuning to sensory and semantic features with dynamically adaptive imaging. <i>Human Brain Mapping</i> , 2012, 33, 387-397. | 1.9 | 11 |
| 80 | Vascular contributions to pattern analysis: Comparing gradient and spin echo fMRI at 3T. <i>NeuroImage</i> , 2011, 56, 643-650. | 2.1 | 10 |
| 81 | Objective Measures of Auditory Scene Analysis. , 2010, , 507-519. | | 10 |
| 82 | Typical and disrupted brain circuitry for conscious awareness in full-term and preterm infants. <i>Brain Communications</i> , 2022, 4, fcac071. | 1.5 | 10 |
| 83 | Robust unwrapping algorithm for three-dimensional phase volumes of arbitrary shape containing knotted phase singularity loops. <i>Optical Engineering</i> , 2007, 46, 085601. | 0.5 | 9 |
| 84 | Strength of Retinotopic Representation of Visual Memories is Modulated by Strategy. <i>Cerebral Cortex</i> , 2014, 24, 281-292. | 1.6 | 9 |
| 85 | The neural basis of precise visual short-term memory for complex recognisable objects. <i>NeuroImage</i> , 2017, 159, 131-145. | 2.1 | 9 |
| 86 | In vivo measurements of blood viscosity and wall stiffness in the carotid using PC-MRI. <i>European Journal of Computational Mechanics</i> , 2009, 18, 9-20. | 0.6 | 8 |
| 87 | Animacy and real-world size shape object representations in the human medial temporal lobes. <i>Human Brain Mapping</i> , 2018, 39, 3779-3792. | 1.9 | 8 |
| 88 | The fronto-parietal network is not a flexible hub during naturalistic cognition. <i>Human Brain Mapping</i> , 2022, 43, 750-759. | 1.9 | 8 |
| 89 | Using Functional Magnetic Resonance Imaging to Detect Preserved Function in a Preterm Infant with Brain Injury. <i>Journal of Pediatrics</i> , 2017, 189, 213-217.e1. | 0.9 | 7 |
| 90 | Evaluating Affordable Cranial Ultrasonography in East African Neonatal Intensive Care Units. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 119-128. | 0.7 | 6 |

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|-----|--|-----|-----------|
| 91 | Auditory structural connectivity in preterm and healthy term infants during the first postnatal year. <i>Developmental Psychobiology</i> , 2018, 60, 256-264. | 0.9 | 6 |
| 92 | Brainstem shape is affected by clinical course in the neonatal intensive care unit. <i>NeuroImage: Clinical</i> , 2017, 15, 62-70. | 1.4 | 5 |
| 93 | Customised Cytoarchitectonic Probability Maps Using Deformable Registration: Primary Auditory Cortex. , 2007, 10, 760-768. | | 5 |
| 94 | Effects of Attention on Auditory Perceptual Organization. , 2005, , 317-323. | | 4 |
| 95 | Online testing in developmental science: A guide to design and implementation. <i>Advances in Child Development and Behavior</i> , 2022, 62, 93-125. | 0.7 | 4 |
| 96 | Naturalistic stimuli reveal a sensitive period in cross modal responses of visual cortex: Evidence from adult-onset blindness. <i>Neuropsychologia</i> , 2022, 172, 108277. | 0.7 | 3 |
| 97 | Is susceptibility to perceptual migration and fusion modality-specific or multimodal?. <i>Neuropsychologia</i> , 2006, 44, 693-710. | 0.7 | 2 |
| 98 | Rapid and coarse face detection: With a lack of evidence for a nasal-temporal asymmetry. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 1883-1895. | 0.7 | 2 |
| 99 | 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. <i>Neuropsychologia</i> , 2018, 117, 322-331. | 0.7 | 1 |
| 100 | Resources required for processing ambiguous complex features in vision and audition are modality specific. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 336-353. | 1.0 | 0 |
| 101 | Neuroimaging of the Mind's Ear Using Representational Similarity Analysis. , 2015, , 229-237. | | 0 |
| 102 | Perceptual segregation by timbre: Streaming by bandwidth but not periodicity. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 2752-2752. | 0.5 | 0 |
| 103 | Robust three-dimensional phase unwrapping algorithm for phase contrast magnetic resonance velocity imaging. , 2006, , 74-81. | | 0 |