

Gareth Ball

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

2,768
citations

25
h-index

52
g-index

81
ext. papers

3,470
ext. citations

5.9
avg, IF

4.82
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 69 | Development of cortical microstructure in the preterm human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9541-6 | 11.5 | 227 |
| 68 | The effect of preterm birth on thalamic and cortical development. <i>Cerebral Cortex</i> , 2012 , 22, 1016-24 | 5.1 | 221 |
| 67 | Rich-club organization of the newborn human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7456-61 | 11.5 | 217 |
| 66 | Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. <i>NeuroImage</i> , 2012 , 59, 2255-65 | 7.9 | 201 |
| 65 | The influence of preterm birth on the developing thalamocortical connectome. <i>Cortex</i> , 2013 , 49, 1711-21 | 3.8 | 156 |
| 64 | Thalamocortical Connectivity Predicts Cognition in Children Born Preterm. <i>Cerebral Cortex</i> , 2015 , 25, 4310-8 | 5.1 | 150 |
| 63 | An optimised tract-based spatial statistics protocol for neonates: applications to prematurity and chronic lung disease. <i>NeuroImage</i> , 2010 , 53, 94-102 | 7.9 | 137 |
| 62 | Neonatal tract-based spatial statistics findings and outcome in preterm infants. <i>American Journal of Neuroradiology</i> , 2012 , 33, 188-94 | 4.4 | 135 |
| 61 | A major continuous allergenic epitope of bovine beta-lactoglobulin recognized by human IgE binding. <i>Clinical and Experimental Allergy</i> , 1994 , 24, 758-64 | 4.1 | 107 |
| 60 | Specialization and integration of functional thalamocortical connectivity in the human infant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6485-90 | 11.5 | 104 |
| 59 | Regional changes in thalamic shape and volume with increasing age. <i>NeuroImage</i> , 2012 , 63, 1134-42 | 7.9 | 75 |
| 58 | Whole-brain mapping of structural connectivity in infants reveals altered connection strength associated with growth and preterm birth. <i>Cerebral Cortex</i> , 2014 , 24, 2324-33 | 5.1 | 71 |
| 57 | Diffusion tensor imaging in preterm infants with punctate white matter lesions. <i>Pediatric Research</i> , 2011 , 69, 561-6 | 3.2 | 69 |
| 56 | Machine-learning to characterise neonatal functional connectivity in the preterm brain. <i>NeuroImage</i> , 2016 , 124, 267-275 | 7.9 | 66 |
| 55 | Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth. <i>Cerebral Cortex</i> , 2016 , 26, 1322-35 | 5.1 | 57 |
| 54 | Exploring the multiple-hit hypothesis of preterm white matter damage using diffusion MRI. <i>NeuroImage: Clinical</i> , 2018 , 17, 596-606 | 5.3 | 54 |
| 53 | Decreased microglial Wnt/ β -catenin signalling drives microglial pro-inflammatory activation in the developing brain. <i>Brain</i> , 2019 , 142, 3806-3833 | 11.2 | 48 |

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|----|---|------|----|
| 52 | The exploration of rotenone as a toxin for inducing Parkinson's disease in rats, for application in BBB transport and PK-PD experiments. <i>Journal of Pharmacological and Toxicological Methods</i> , 2008 , 57, 114-30 | 1.7 | 48 |
| 51 | Integrative genomics of microglia implicates DLG4 (PSD95) in the white matter development of preterm infants. <i>Nature Communications</i> , 2017 , 8, 428 | 17.4 | 47 |
| 50 | Diffusion magnetic resonance imaging in preterm brain injury. <i>Neuroradiology</i> , 2013 , 55 Suppl 2, 65-95 | 3.2 | 46 |
| 49 | Multimodal image analysis of clinical influences on preterm brain development. <i>Annals of Neurology</i> , 2017 , 82, 233-246 | 9.4 | 40 |
| 48 | Tractography of the corticospinal tracts in infants with focal perinatal injury: comparison with normal controls and to motor development. <i>Neuroradiology</i> , 2012 , 54, 507-16 | 3.2 | 39 |
| 47 | Common genetic variants and risk of brain injury after preterm birth. <i>Pediatrics</i> , 2014 , 133, e1655-63 | 7.4 | 32 |
| 46 | Age, sex, and puberty related development of the corpus callosum: a multi-technique diffusion MRI study. <i>Brain Structure and Function</i> , 2018 , 223, 2753-2765 | 4 | 31 |
| 45 | Voxel-wise comparisons of cellular microstructure and diffusion-MRI in mouse hippocampus using 3D Bridging of Optically-clear histology with Neuroimaging Data (3D-BOND). <i>Scientific Reports</i> , 2018 , 8, 4011 | 4.9 | 25 |
| 44 | Testing the sensitivity of Tract-Based Spatial Statistics to simulated treatment effects in preterm neonates. <i>PLoS ONE</i> , 2013 , 8, e67706 | 3.7 | 24 |
| 43 | Executive functions and prefrontal cortex: a matter of persistence?. <i>Frontiers in Systems Neuroscience</i> , 2011 , 5, 3 | 3.5 | 22 |
| 42 | Machine learning shows association between genetic variability in and cerebral connectivity in preterm infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13744-13749 | 11.5 | 21 |
| 41 | Development of the Corticospinal and Callosal Tracts from Extremely Premature Birth up to 2 Years of Age. <i>PLoS ONE</i> , 2015 , 10, e0125681 | 3.7 | 21 |
| 40 | New imaging approaches to evaluate newborn brain injury and their role in predicting developmental disorders. <i>Current Opinion in Neurology</i> , 2014 , 27, 168-75 | 7.1 | 21 |
| 39 | Possible relationship between common genetic variation and white matter development in a pilot study of preterm infants. <i>Brain and Behavior</i> , 2016 , 6, e00434 | 3.4 | 21 |
| 38 | Characterising brain network topologies: A dynamic analysis approach using heat kernels. <i>NeuroImage</i> , 2016 , 141, 490-501 | 7.9 | 19 |
| 37 | Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , 2021 , 12, 4237 | 17.4 | 17 |
| 36 | Cortical remodelling in childhood is associated with genes enriched for neurodevelopmental disorders. <i>NeuroImage</i> , 2020 , 215, 116803 | 7.9 | 16 |
| 35 | Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , 2020 , 18, e3000976 | 9.7 | 16 |

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| 34 | Dymeclin deficiency causes postnatal microcephaly, hypomyelination and reticulum-to-Golgi trafficking defects in mice and humans. <i>Human Molecular Genetics</i> , 2015 , 24, 2771-83 | 5.6 | 15 |
| 33 | Modelling neuroanatomical variation during childhood and adolescence with neighbourhood-preserving embedding. <i>Scientific Reports</i> , 2017 , 7, 17796 | 4.9 | 15 |
| 32 | Multimodal Structural Neuroimaging Markers of Brain Development and ADHD Symptoms. <i>American Journal of Psychiatry</i> , 2019 , 176, 57-66 | 11.9 | 14 |
| 31 | Altered white matter and cortical structure in neonates with antenatally diagnosed isolated ventriculomegaly. <i>NeuroImage: Clinical</i> , 2016 , 11, 139-148 | 5.3 | 13 |
| 30 | Charting shared developmental trajectories of cortical thickness and structural connectivity in childhood and adolescence. <i>Human Brain Mapping</i> , 2019 , 40, 4630-4644 | 5.9 | 13 |
| 29 | Diffusion tensor imaging metrics in neonates-a comparison of manual region-of-interest analysis vs. tract-based spatial statistics. <i>Pediatric Radiology</i> , 2013 , 43, 69-79 | 2.8 | 10 |
| 28 | Fractional anisotropy in children with dystonia or spasticity correlates with the selection for DBS or ITB movement disorder surgery. <i>Neuroradiology</i> , 2016 , 58, 401-8 | 3.2 | 9 |
| 27 | Network component analysis reveals developmental trajectories of structural connectivity and specific alterations in autism spectrum disorder. <i>Human Brain Mapping</i> , 2017 , 38, 4169-4184 | 5.9 | 8 |
| 26 | Brain charts for the human lifespan | | 8 |
| 25 | White matter extension of the Melbourne Children's Regional Infant Brain atlas: M-CRIB-WM. <i>Human Brain Mapping</i> , 2020 , 41, 2317-2333 | 5.9 | 7 |
| 24 | Polygenic risk for neuropsychiatric disease and vulnerability to abnormal deep grey matter development. <i>Scientific Reports</i> , 2019 , 9, 1976 | 4.9 | 7 |
| 23 | Individual variation in longitudinal postnatal development of the primate brain. <i>Brain Structure and Function</i> , 2019 , 224, 1185-1201 | 4 | 7 |
| 22 | A neural window on the emergence of cognition. <i>Annals of the New York Academy of Sciences</i> , 2016 , 1369, 7-23 | 6.5 | 6 |
| 21 | Quantifying individual differences in brain morphometry underlying symptom severity in Autism Spectrum Disorders. <i>Scientific Reports</i> , 2019 , 9, 9898 | 4.9 | 5 |
| 20 | Individual variation underlying brain age estimates in typical development. <i>NeuroImage</i> , 2021 , 235, 118036 | 7.6 | 5 |
| 19 | Loss of the Wnt/ β -catenin pathway in microglia of the developing brain drives pro-inflammatory activation leading to white matter injury | | 3 |
| 18 | The development of structural covariance networks during the transition from childhood to adolescence. <i>Scientific Reports</i> , 2021 , 11, 9451 | 4.9 | 3 |
| 17 | Associations Between Neonatal Brain Structure, the Home Environment, and Childhood Outcomes Following Very Preterm Birth. <i>Biological Psychiatry Global Open Science</i> , 2021 , 1, 146-155 | | 3 |

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| 16 | Cortical morphology at birth reflects spatio-temporal patterns of gene expression in the fetal human brain | | 2 |
| 15 | Normalisation of neonatal brain network measures using stochastic approaches. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 574-81 | 0.9 | 2 |
| 14 | Individual Differences in Intrinsic Brain Networks Predict Symptom Severity in Autism Spectrum Disorders. <i>Cerebral Cortex</i> , 2021 , 31, 681-693 | 5.1 | 2 |
| 13 | Callosal thickness profiles for prognosticating conversion from mild cognitive impairment to Alzheimer's disease: A classification approach. <i>Brain and Behavior</i> , 2018 , 8, e01142 | 3.4 | 2 |
| 12 | Diffusion Imaging in the Developing Brain 2014 , 283-300 | | 1 |
| 11 | Neonatal amygdala resting-state functional connectivity and socio-emotional development in very preterm children.. <i>Brain Communications</i> , 2022 , 4, fcac009 | 4.5 | 1 |
| 10 | Individual variation in longitudinal postnatal development of the primate brain | | 1 |
| 9 | White matter tracts related to memory and emotion in very preterm children. <i>Pediatric Research</i> , 2021 , 89, 1452-1460 | 3.2 | 1 |
| 8 | Participant followup rate can bias structural imaging measures in longitudinal studies | | 1 |
| 7 | Early and late development of hub connectivity in the human brain.. <i>Current Opinion in Psychology</i> , 2021 , 44, 321-329 | 6.2 | 0 |
| 6 | Investigating brain structural maturation in children and adolescents born very preterm using the brain age framework.. <i>NeuroImage</i> , 2021 , 247, 118828 | 7.9 | 0 |
| 5 | O-055 Fractional Anisotropy In White Matter And Mean Diffusivity In Grey Matter Correlate To Neurodevelopmental Performance Following Hypoxic-ischaemic Encephalopathy. <i>Archives of Disease in Childhood</i> , 2014 , 99, A42.3-A43 | 2.2 | |
| 4 | Connectomics770-774 | | |
| 3 | 197 Serial Diffusion Tensor Imaging Demonstrates: White Matter Microstructure in the Preterm Period is not Related to Gestation at Birth. <i>Archives of Disease in Childhood</i> , 2012 , 97, A57-A57 | 2.2 | |
| 2 | Parcellation-Independent Multi-Scale Framework for Brain Network Analysis. <i>Mathematics and Visualization</i> , 2014 , 23-32 | 0.6 | |
| 1 | Integration of Network-Based Biological Knowledge With White Matter Features in Preterm Infants Using the Graph-Guided Group Lasso 2018 , 45-59 | | |