

# Gareth Ball

## List of Publications by Year in Descending Order

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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	Neonatal amygdala resting-state functional connectivity and socio-emotional development in very preterm children.. <i>Brain Communications</i> , <b>2022</b> , 4, fcac009	4.5	1
68	Early and late development of hub connectivity in the human brain.. <i>Current Opinion in Psychology</i> , <b>2021</b> , 44, 321-329	6.2	0
67	Investigating brain structural maturation in children and adolescents born very preterm using the brain age framework.. <i>NeuroImage</i> , <b>2021</b> , 247, 118828	7.9	0
66	The development of structural covariance networks during the transition from childhood to adolescence. <i>Scientific Reports</i> , <b>2021</b> , 11, 9451	4.9	3
65	Individual variation underlying brain age estimates in typical development. <i>NeuroImage</i> , <b>2021</b> , 235, 118036	7.9	5
64	Individual Differences in Intrinsic Brain Networks Predict Symptom Severity in Autism Spectrum Disorders. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 681-693	5.1	2
63	White matter tracts related to memory and emotion in very preterm children. <i>Pediatric Research</i> , <b>2021</b> , 89, 1452-1460	3.2	1
62	Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , <b>2021</b> , 12, 4237	17.4	17
61	Associations Between Neonatal Brain Structure, the Home Environment, and Childhood Outcomes Following Very Preterm Birth. <i>Biological Psychiatry Global Open Science</i> , <b>2021</b> , 1, 146-155		3
60	Cortical remodelling in childhood is associated with genes enriched for neurodevelopmental disorders. <i>NeuroImage</i> , <b>2020</b> , 215, 116803	7.9	16
59	White matter extension of the Melbourne Children's Regional Infant Brain atlas: M-CRIB-WM. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 2317-2333	5.9	7
58	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000976	9.7	16
57	Quantifying individual differences in brain morphometry underlying symptom severity in Autism Spectrum Disorders. <i>Scientific Reports</i> , <b>2019</b> , 9, 9898	4.9	5
56	Charting shared developmental trajectories of cortical thickness and structural connectivity in childhood and adolescence. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 4630-4644	5.9	13
55	Decreased microglial Wnt/ $\beta$ catenin signalling drives microglial pro-inflammatory activation in the developing brain. <i>Brain</i> , <b>2019</b> , 142, 3806-3833	11.2	48
54	Polygenic risk for neuropsychiatric disease and vulnerability to abnormal deep grey matter development. <i>Scientific Reports</i> , <b>2019</b> , 9, 1976	4.9	7
53	Multimodal Structural Neuroimaging Markers of Brain Development and ADHD Symptoms. <i>American Journal of Psychiatry</i> , <b>2019</b> , 176, 57-66	11.9	14

52	Individual variation in longitudinal postnatal development of the primate brain. <i>Brain Structure and Function</i> , <b>2019</b> , 224, 1185-1201	4	7
51	Age, sex, and puberty related development of the corpus callosum: a multi-technique diffusion MRI study. <i>Brain Structure and Function</i> , <b>2018</b> , 223, 2753-2765	4	31
50	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> , <b>2018</b> , 8, 4011	4.9	25
49	Exploring the multiple-hit hypothesis of preterm white matter damage using diffusion MRI. <i>NeuroImage: Clinical</i> , <b>2018</b> , 17, 596-606	5.3	54
48	Callosal thickness profiles for prognosticating conversion from mild cognitive impairment to Alzheimer's disease: A classification approach. <i>Brain and Behavior</i> , <b>2018</b> , 8, e01142	3.4	2
47	Integration of Network-Based Biological Knowledge With White Matter Features in Preterm Infants Using the Graph-Guided Group Lasso <b>2018</b> , 45-59		
46	Network component analysis reveals developmental trajectories of structural connectivity and specific alterations in autism spectrum disorder. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 4169-4184	5.9	8
45	Integrative genomics of microglia implicates DLG4 (PSD95) in the white matter development of preterm infants. <i>Nature Communications</i> , <b>2017</b> , 8, 428	17.4	47
44	Multimodal image analysis of clinical influences on preterm brain development. <i>Annals of Neurology</i> , <b>2017</b> , 82, 233-246	9.4	40
43	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> , <b>2017</b> , 114, 13744-13749	11.5	21
42	Modelling neuroanatomical variation during childhood and adolescence with neighbourhood-preserving embedding. <i>Scientific Reports</i> , <b>2017</b> , 7, 17796	4.9	15
41	Machine-learning to characterise neonatal functional connectivity in the preterm brain. <i>NeuroImage</i> , <b>2016</b> , 124, 267-275	7.9	66
40	A neural window on the emergence of cognition. <i>Annals of the New York Academy of Sciences</i> , <b>2016</b> , 1369, 7-23	6.5	6
39	Altered white matter and cortical structure in neonates with antenatally diagnosed isolated ventriculomegaly. <i>NeuroImage: Clinical</i> , <b>2016</b> , 11, 139-148	5.3	13
38	Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 1322-35	5.1	57
37	Fractional anisotropy in children with dystonia or spasticity correlates with the selection for DBS or ITB movement disorder surgery. <i>Neuroradiology</i> , <b>2016</b> , 58, 401-8	3.2	9
36	Characterising brain network topologies: A dynamic analysis approach using heat kernels. <i>NeuroImage</i> , <b>2016</b> , 141, 490-501	7.9	19
35	Possible relationship between common genetic variation and white matter development in a pilot study of preterm infants. <i>Brain and Behavior</i> , <b>2016</b> , 6, e00434	3.4	21

34	Thalamocortical Connectivity Predicts Cognition in Children Born Preterm. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 4310-8	5.1	150
33	Dymeclin deficiency causes postnatal microcephaly, hypomyelination and reticulum-to-Golgi trafficking defects in mice and humans. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 2771-83	5.6	15
32	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> , <b>2015</b> , 112, 6485-90	11.5	104
31	Development of the Corticospinal and Callosal Tracts from Extremely Premature Birth up to 2 Years of Age. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125681	3.7	21
30	Whole-brain mapping of structural connectivity in infants reveals altered connection strength associated with growth and preterm birth. <i>Cerebral Cortex</i> , <b>2014</b> , 24, 2324-33	5.1	71
29	Common genetic variants and risk of brain injury after preterm birth. <i>Pediatrics</i> , <b>2014</b> , 133, e1655-63	7.4	32
28	Rich-club organization of the newborn human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7456-61	11.5	217
27	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> , <b>2014</b> , 99, A42.3-A43	2.2	
26	New imaging approaches to evaluate newborn brain injury and their role in predicting developmental disorders. <i>Current Opinion in Neurology</i> , <b>2014</b> , 27, 168-75	7.1	21
25	Diffusion Imaging in the Developing Brain <b>2014</b> , 283-300		1
24	Parcellation-Independent Multi-Scale Framework for Brain Network Analysis. <i>Mathematics and Visualization</i> , <b>2014</b> , 23-32	0.6	
23	Diffusion tensor imaging metrics in neonates-a comparison of manual region-of-interest analysis vs. tract-based spatial statistics. <i>Pediatric Radiology</i> , <b>2013</b> , 43, 69-79	2.8	10
22	The influence of preterm birth on the developing thalamocortical connectome. <i>Cortex</i> , <b>2013</b> , 49, 1711-21	3.8	156
21	Diffusion magnetic resonance imaging in preterm brain injury. <i>Neuroradiology</i> , <b>2013</b> , 55 Suppl 2, 65-95	3.2	46
20	Development of cortical microstructure in the preterm human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9541-6	11.5	227
19	Testing the sensitivity of Tract-Based Spatial Statistics to simulated treatment effects in preterm neonates. <i>PLoS ONE</i> , <b>2013</b> , 8, e67706	3.7	24
18	Normalisation of neonatal brain network measures using stochastic approaches. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 574-81	0.9	2
17	Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. <i>NeuroImage</i> , <b>2012</b> , 59, 2255-65	7.9	201

16	Regional changes in thalamic shape and volume with increasing age. <i>NeuroImage</i> , <b>2012</b> , 63, 1134-42	7.9	75
15	Tractography of the corticospinal tracts in infants with focal perinatal injury: comparison with normal controls and to motor development. <i>Neuroradiology</i> , <b>2012</b> , 54, 507-16	3.2	39
14	Neonatal tract-based spatial statistics findings and outcome in preterm infants. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 188-94	4.4	135
13	The effect of preterm birth on thalamic and cortical development. <i>Cerebral Cortex</i> , <b>2012</b> , 22, 1016-24	5.1	221
12	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> , <b>2012</b> , 97, A57-A57	2.2	
11	Executive functions and prefrontal cortex: a matter of persistence?. <i>Frontiers in Systems Neuroscience</i> , <b>2011</b> , 5, 3	3.5	22
10	Diffusion tensor imaging in preterm infants with punctate white matter lesions. <i>Pediatric Research</i> , <b>2011</b> , 69, 561-6	3.2	69
9	An optimised tract-based spatial statistics protocol for neonates: applications to prematurity and chronic lung disease. <i>NeuroImage</i> , <b>2010</b> , 53, 94-102	7.9	137
8	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> , <b>2008</b> , 57, 114-30	1.7	48
7	A major continuous allergenic epitope of bovine beta-lactoglobulin recognized by human IgE binding. <i>Clinical and Experimental Allergy</i> , <b>1994</b> , 24, 758-64	4.1	107
6	Connectomics770-774		
5	Cortical morphology at birth reflects spatio-temporal patterns of gene expression in the fetal human brain		2
4	Loss of the Wnt/ $\beta$ -catenin pathway in microglia of the developing brain drives pro-inflammatory activation leading to white matter injury		3
3	Individual variation in longitudinal postnatal development of the primate brain		1
2	Brain charts for the human lifespan		8
1	Participant followup rate can bias structural imaging measures in longitudinal studies		1