

Gareth Ball

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,871
citations

201658

27
h-index

138468

58
g-index

81
all docs

81
docs citations

81
times ranked

4554
citing authors

#	ARTICLE	IF	CITATIONS
1	Rich-club organization of the newborn human brain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7456-7461.	7.1	300
2	Development of cortical microstructure in the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9541-9546.	7.1	293
3	The Effect of Preterm Birth on Thalamic and Cortical Development. Cerebral Cortex, 2012, 22, 1016-1024.	2.9	262
4	Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. NeuroImage, 2012, 59, 2255-2265.	4.2	259
5	The influence of preterm birth on the developing thalamocortical connectome. Cortex, 2013, 49, 1711-1721.	2.4	202
6	Thalamocortical Connectivity Predicts Cognition in Children Born Preterm. Cerebral Cortex, 2015, 25, 4310-4318.	2.9	201
7	An optimised tract-based spatial statistics protocol for neonates: Applications to prematurity and chronic lung disease. NeuroImage, 2010, 53, 94-102.	4.2	154
8	Neonatal Tract-Based Spatial Statistics Findings and Outcome in Preterm Infants. American Journal of Neuroradiology, 2012, 33, 188-194.	2.4	148
9	Specialization and integration of functional thalamocortical connectivity in the human infant. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6485-6490.	7.1	130
10	A major continuous allergenic epitope of bovine beta-lactoglobulin recognized by human IgE binding. Clinical and Experimental Allergy, 1994, 24, 758-764.	2.9	119
11	Regional changes in thalamic shape and volume with increasing age. NeuroImage, 2012, 63, 1134-1142.	4.2	100
12	Decreased microglial Wnt/ β -catenin signalling drives microglial pro-inflammatory activation in the developing brain. Brain, 2019, 142, 3806-3833.	7.6	97
13	Machine-learning to characterise neonatal functional connectivity in the preterm brain. NeuroImage, 2016, 124, 267-275.	4.2	92
14	Genetic influences on hub connectivity of the human connectome. Nature Communications, 2021, 12, 4237.	12.8	92
15	Whole-Brain Mapping of Structural Connectivity in Infants Reveals Altered Connection Strength Associated with Growth and Preterm Birth. Cerebral Cortex, 2014, 24, 2324-2333.	2.9	88
16	Exploring the multiple-hit hypothesis of preterm white matter damage using diffusion MRI. NeuroImage: Clinical, 2018, 17, 596-606.	2.7	87
17	Diffusion Tensor Imaging in Preterm Infants With Punctate White Matter Lesions. Pediatric Research, 2011, 69, 561-566.	2.3	80
18	Integrative genomics of microglia implicates DLG4 (PSD95) in the white matter development of preterm infants. Nature Communications, 2017, 8, 428.	12.8	74

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19	Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth. <i>Cerebral Cortex</i> , 2016, 26, 1322-1335.	2.9	69
20	Multimodal image analysis of clinical influences on preterm brain development. <i>Annals of Neurology</i> , 2017, 82, 233-246.	5.3	61
21	The exploration of rotenone as a toxin for inducing Parkinson's disease in rats, for application in BBB transport and PK α -PD experiments. <i>Journal of Pharmacological and Toxicological Methods</i> , 2008, 57, 114-130.	0.7	59
22	Diffusion magnetic resonance imaging in preterm brain injury. <i>Neuroradiology</i> , 2013, 55, 65-95.	2.2	56
23	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.	2.3	50
24	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.	3.3	47
25	Tractography of the corticospinal tracts in infants with focal perinatal injury: comparison with normal controls and to motor development. <i>Neuroradiology</i> , 2012, 54, 507-516.	2.2	43
26	Common Genetic Variants and Risk of Brain Injury After Preterm Birth. <i>Pediatrics</i> , 2014, 133, e1655-e1663.	2.1	43
27	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , 2020, 18, e3000976.	5.6	38
28	Cortical remodelling in childhood is associated with genes enriched for neurodevelopmental disorders. <i>NeuroImage</i> , 2020, 215, 116803.	4.2	37
29	Executive Functions and Prefrontal Cortex: A Matter of Persistence?. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 3.	2.5	36
30	Multimodal Structural Neuroimaging Markers of Brain Development and ADHD Symptoms. <i>American Journal of Psychiatry</i> , 2019, 176, 57-66.	7.2	30
31	Individual variation underlying brain age estimates in typical development. <i>NeuroImage</i> , 2021, 235, 118036.	4.2	30
32	Characterising brain network topologies: A dynamic analysis approach using heat kernels. <i>NeuroImage</i> , 2016, 141, 490-501.	4.2	29
33	Machine learning shows association between genetic variability in <i>PPARG</i> 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.	7.1	29
34	New imaging approaches to evaluate newborn brain injury and their role in predicting developmental disorders. <i>Current Opinion in Neurology</i> , 2014, 27, 168-175.	3.6	27
35	Charting shared developmental trajectories of cortical thickness and structural connectivity in childhood and adolescence. <i>Human Brain Mapping</i> , 2019, 40, 4630-4644.	3.6	27
36	Testing the Sensitivity of Tract-Based Spatial Statistics to Simulated Treatment Effects in Preterm Neonates. <i>PLoS ONE</i> , 2013, 8, e67706.	2.5	27

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37	Dymeclin deficiency causes postnatal microcephaly, hypomyelination and reticulum-to-Golgi trafficking defects in mice and humans. <i>Human Molecular Genetics</i> , 2015, 24, 2771-2783.	2.9	25
38	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.	2.2	25
39	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.	2.2	25
40	Modelling neuroanatomical variation during childhood and adolescence with neighbourhood-preserving embedding. <i>Scientific Reports</i> , 2017, 7, 17796.	3.3	24
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.	2.5	22
42	The development of structural covariance networks during the transition from childhood to adolescence. <i>Scientific Reports</i> , 2021, 11, 9451.	3.3	22
43	Altered white matter and cortical structure in neonates with antenatally diagnosed isolated ventriculomegaly. <i>NeuroImage: Clinical</i> , 2016, 11, 139-148.	2.7	18
44	A neural window on the emergence of cognition. <i>Annals of the New York Academy of Sciences</i> , 2016, 1369, 7-23.	3.8	15
45	Neonatal amygdala resting-state functional connectivity and socio-emotional development in very preterm children. <i>Brain Communications</i> , 2022, 4, fcac009.	3.3	14
46	Quantifying individual differences in brain morphometry underlying symptom severity in Autism Spectrum Disorders. <i>Scientific Reports</i> , 2019, 9, 9898.	3.3	13
47	Polygenic risk for neuropsychiatric disease and vulnerability to abnormal deep grey matter development. <i>Scientific Reports</i> , 2019, 9, 1976.	3.3	13
48	Early and late development of hub connectivity in the human brain. <i>Current Opinion in Psychology</i> , 2022, 44, 321-329.	4.9	12
49	Fractional anisotropy in children with dystonia or spasticity correlates with the selection for DBS or ITB movement disorder surgery. <i>Neuroradiology</i> , 2016, 58, 401-408.	2.2	11
50	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.	3.6	11
51	White matter extension of the Melbourne Children's Regional Infant Brain atlas: Mâ€CRIBâ€W. <i>Human Brain Mapping</i> , 2020, 41, 2317-2333.	3.6	11
52	Diffusion tensor imaging metrics in neonatesâ€a comparison of manual region-of-interest analysis vs. tract-based spatial statistics. <i>Pediatric Radiology</i> , 2013, 43, 69-79.	2.0	10
53	Individual Differences in Intrinsic Brain Networks Predict Symptom Severity in Autism Spectrum Disorders. <i>Cerebral Cortex</i> , 2021, 31, 681-693.	2.9	10
54	Individual variation in longitudinal postnatal development of the primate brain. <i>Brain Structure and Function</i> , 2019, 224, 1185-1201.	2.3	8

#	ARTICLE	IF	CITATIONS
55	Investigating brain structural maturation in children and adolescents born very preterm using the brain age framework. <i>NeuroImage</i> , 2022, 247, 118828.	4.2	8
56	White matter tracts related to memory and emotion in very preterm children. <i>Pediatric Research</i> , 2021, 89, 1452-1460.	2.3	7
57	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.	2.2	2
58	Normalisation of Neonatal Brain Network Measures Using Stochastic Approaches. <i>Lecture Notes in Computer Science</i> , 2013, 16, 574-581.	1.3	2
59	Diffusion Imaging in the Developing Brain. , 2014, , 283-300.		1
60	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.	1.9	0
61	O-055â€¦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.	1.9	0
62	Connectomics. , 0, , 770-774.		0
63	Integration of Network-Based Biological Knowledge With White Matter Features in Preterm Infants Using the Graph-Guided Group Lasso. , 2018, , 45-59.		0