

James Boardman

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.

116
papers

5,511
citations

34
h-index

73
g-index

140
ext. papers

6,553
ext. citations

5.7
avg, IF

5.31
L-index

#	Paper	IF	Citations
116	Symptoms of obsessive-compulsive disorder. <i>American Journal of Psychiatry</i> , 1997 , 154, 911-7	11.9	600
115	Patterns of cerebral injury and neurodevelopmental outcomes after symptomatic neonatal hypoglycemia. <i>Pediatrics</i> , 2008 , 122, 65-74	7.4	341
114	Abnormal cortical development after premature birth shown by altered allometric scaling of brain growth. <i>PLoS Medicine</i> , 2006 , 3, e265	11.6	294
113	Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. <i>NeuroImage</i> , 2008 , 40, 672-684	7.9	239
112	Specific relations between neurodevelopmental abilities and white matter microstructure in children born preterm. <i>Brain</i> , 2008 , 131, 3201-8	11.2	224
111	The effect of preterm birth on thalamic and cortical development. <i>Cerebral Cortex</i> , 2012 , 22, 1016-24	5.1	221
110	A dynamic 4D probabilistic atlas of the developing brain. <i>NeuroImage</i> , 2011 , 54, 2750-63	7.9	213
109	Axial and radial diffusivity in preterm infants who have diffuse white matter changes on magnetic resonance imaging at term-equivalent age. <i>Pediatrics</i> , 2006 , 117, 376-86	7.4	212
108	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
107	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. <i>NeuroImage</i> , 2006 , 32, 70-8	7.9	195
106	Diffusion-weighted magnetic resonance imaging in term perinatal brain injury: a comparison with site of lesion and time from birth. <i>Pediatrics</i> , 2004 , 114, 1004-14	7.4	191
105	The influence of preterm birth on the developing thalamocortical connectome. <i>Cortex</i> , 2013 , 49, 1711-21	3.8	156
104	Quantification of deep gray matter in preterm infants at term-equivalent age using manual volumetry of 3-tesla magnetic resonance images. <i>Pediatrics</i> , 2007 , 119, 759-65	7.4	138
103	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
102	Magnetic resonance image correlates of hemiparesis after neonatal and childhood middle cerebral artery stroke. <i>Pediatrics</i> , 2005 , 115, 321-6	7.4	135
101	A common neonatal image phenotype predicts adverse neurodevelopmental outcome in children born preterm. <i>NeuroImage</i> , 2010 , 52, 409-14	7.9	126
100	Relationship between white matter apparent diffusion coefficients in preterm infants at term-equivalent age and developmental outcome at 2 years. <i>Pediatrics</i> , 2007 , 120, e604-9	7.4	121

99	Thalamo-cortical connectivity in children born preterm mapped using probabilistic magnetic resonance tractography. <i>NeuroImage</i> , 2007 , 34, 896-904	7.9	114
98	Electrographic seizures are associated with brain injury in newborns undergoing therapeutic hypothermia. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2014 , 99, F219-24	4.7	106
97	Smaller cerebellar volumes in very preterm infants at term-equivalent age are associated with the presence of supratentorial lesions. <i>American Journal of Neuroradiology</i> , 2006 , 27, 573-9	4.4	87
96	Early growth in brain volume is preserved in the majority of preterm infants. <i>Annals of Neurology</i> , 2007 , 62, 185-92	9.4	79
95	Whole Brain Magnetic Resonance Image Atlases: A Systematic Review of Existing Atlases and Caveats for Use in Population Imaging. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 1	3.9	77
94	Diffusion tensor imaging in preterm infants with punctate white matter lesions. <i>Pediatric Research</i> , 2011 , 69, 561-6	3.2	69
93	Association between preterm brain injury and exposure to chorioamnionitis during fetal life. <i>Scientific Reports</i> , 2016 , 6, 37932	4.9	67
92	Prenatal methadone exposure is associated with altered neonatal brain development. <i>NeuroImage: Clinical</i> , 2018 , 18, 9-14	5.3	63
91	Differential brain growth in the infant born preterm: current knowledge and future developments from brain imaging. <i>Seminars in Fetal and Neonatal Medicine</i> , 2005 , 10, 403-10	3.7	62
90	Epigenomic profiling of preterm infants reveals DNA methylation differences at sites associated with neural function. <i>Translational Psychiatry</i> , 2016 , 6, e716	8.6	56
89	Early breast milk exposure modifies brain connectivity in preterm infants. <i>NeuroImage</i> , 2019 , 184, 431-439	4.9	49
88	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
87	Assessment of brain growth in early childhood using deformation-based morphometry. <i>NeuroImage</i> , 2008 , 39, 348-58	7.9	46
86	A brain imaging repository of normal structural MRI across the life course: Brain Images of Normal Subjects (BRAINS). <i>NeuroImage</i> , 2017 , 144, 299-304	7.9	38
85	Childhood neurodevelopment after prescription of maintenance methadone for opioid dependency in pregnancy: a systematic review and meta-analysis. <i>Developmental Medicine and Child Neurology</i> , 2019 , 61, 750-760	3.3	38
84	A patient care system for early 3.0 Tesla magnetic resonance imaging of very low birth weight infants. <i>Early Human Development</i> , 2009 , 85, 779-83	2.2	37
83	Hypoglycaemia and neonatal brain injury. <i>Archives of Disease in Childhood: Education and Practice Edition</i> , 2013 , 98, 2-6	0.5	34
82	High b-value diffusion tensor imaging of the neonatal brain at 3T. <i>American Journal of Neuroradiology</i> , 2008 , 29, 1966-72	4.4	34

81	Preterm birth is associated with atypical social orienting in infancy detected using eye tracking. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2016 , 57, 861-8	7.9	34
80	A latent measure explains substantial variance in white matter microstructure across the newborn human brain. <i>Brain Structure and Function</i> , 2017 , 222, 4023-4033	4	33
79	Common genetic variants and risk of brain injury after preterm birth. <i>Pediatrics</i> , 2014 , 133, e1655-63	7.4	32
78	Accurate Learning with Few Atlases (ALFA): an algorithm for MRI neonatal brain extraction and comparison with 11 publicly available methods. <i>Scientific Reports</i> , 2016 , 6, 23470	4.9	28
77	Automated electroencephalographic discontinuity in cooled newborns predicts cerebral MRI and neurodevelopmental outcome. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2017 , 102, F58-F64	4.7	27
76	Parcellation of the Healthy Neonatal Brain into 107 Regions Using Atlas Propagation through Intermediate Time Points in Childhood. <i>Frontiers in Neuroscience</i> , 2016 , 10, 220	5.1	25
75	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
74	Groupwise combined segmentation and registration for atlas construction 2007 , 10, 532-40		22
73	Invited Review: Factors associated with atypical brain development in preterm infants: insights from magnetic resonance imaging. <i>Neuropathology and Applied Neurobiology</i> , 2020 , 46, 413-421	5.2	22
72	DNA methylation and brain structure and function across the life course: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 113, 133-156	9	21
71	A multivariate statistical analysis of the developing human brain in preterm infants. <i>Image and Vision Computing</i> , 2007 , 25, 981-994	3.7	21
70	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
69	A novel mutation in the endothelin B receptor gene in a patient with Shah-Waardenburg syndrome and Down syndrome. <i>Journal of Medical Genetics</i> , 2001 , 38, 646-7	5.8	19
68	Hypoglycaemia and hypoxic-ischaemic encephalopathy. <i>Developmental Medicine and Child Neurology</i> , 2015 , 57 Suppl 3, 29-33	3.3	17
67	Neonatal morphometric similarity mapping for predicting brain age and characterizing neuroanatomic variation associated with preterm birth. <i>NeuroImage: Clinical</i> , 2020 , 25, 102195	5.3	17
66	Multiple Measures of Fixation on Social Content in Infancy: Evidence for a Single Social Cognitive Construct?. <i>Infancy</i> , 2016 , 21, 241-257	2.4	17
65	Preterm Birth and the Risk of Neurodevelopmental Disorders - Is There a Role for Epigenetic Dysregulation?. <i>Current Genomics</i> , 2018 , 19, 507-521	2.6	16
64	Brain charts for the human lifespan.. <i>Nature</i> , 2022 ,	50.4	15

63	Tract shape modeling detects changes associated with preterm birth and neuroprotective treatment effects. <i>NeuroImage: Clinical</i> , 2015 , 8, 51-8	5.3	14
62	Impact of preterm birth on brain development and long-term outcome: protocol for a cohort study in Scotland. <i>BMJ Open</i> , 2020 , 10, e035854	3	14
61	An Evaluation of Deformation-Based Morphometry Applied to the Developing Human Brain and Detection of Volumetric Changes Associated with Preterm Birth. <i>Lecture Notes in Computer Science</i> , 2003 , 697-704	0.9	13
60	Combining morphological information in a manifold learning framework: application to neonatal MRI. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 1-8	0.9	13
59	The Cerebrospinal Fluid Inflammatory Response to Preterm Birth. <i>Frontiers in Physiology</i> , 2018 , 9, 1299	4.6	13
58	Improving data availability for brain image biobanking in healthy subjects: Practice-based suggestions from an international multidisciplinary working group. <i>NeuroImage</i> , 2017 , 153, 399-409	7.9	12
57	SEGMA: An Automatic SEGmentation Approach for Human Brain MRI Using Sliding Window and Random Forests. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 2	3.9	12
56	Maternal cortisol is associated with neonatal amygdala microstructure and connectivity in a sexually dimorphic manner. <i>ELife</i> , 2020 , 9,	8.9	10
55	Social cognition following preterm birth: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 124, 151-167	9	8
54	Brain charts for the human lifespan		8
53	Associations of Socioeconomic Deprivation and Preterm Birth With Speech, Language, and Communication Concerns Among Children Aged 27 to 30 Months. <i>JAMA Network Open</i> , 2019 , 2, e1911027	19.4	7
52	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. <i>Brain, Behavior, and Immunity</i> , 2020 , 90, 311-318	16.6	7
51	Complement C5a is present in CSF of human newborns and is elevated in association with preterm birth. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2017 , 30, 2413-2416	2	7
50	LISA: Longitudinal image registration via spatio-temporal atlases 2012 ,		6
49	Tracking developmental changes in subcortical structures of the preterm brain using multi-modal MRI 2011 ,		6
48	Recent advances in imaging preterm brain injury. <i>Minerva Pediatrica</i> , 2007 , 59, 349-68	1.6	6
47	Brain Development in Fetuses of Mothers with Diabetes: A Case-Control MR Imaging Study. <i>American Journal of Neuroradiology</i> , 2017 , 38, 1037-1044	4.4	5
46	Histograms of Oriented 3D Gradients for Fully Automated Fetal Brain Localization and Robust Motion Correction in 3 T Magnetic Resonance Images. <i>BioMed Research International</i> , 2017 , 2017, 3956363	3.3	5

45	Antenatal diagnosis of intracranial haemorrhage and porencephalic cyst. <i>BMJ Case Reports</i> , 2015 , 2015,	0.9	5
44	Unsupervised Learning of Shape Complexity: Application to Brain Development. <i>Lecture Notes in Computer Science</i> , 2012 , 88-99	0.9	5
43	Hierarchical Complexity of the Macro-Scale Neonatal Brain. <i>Cerebral Cortex</i> , 2021 , 31, 2071-2084	5.1	5
42	Maternal Glucocorticoid Metabolism Across Pregnancy: A Potential Mechanism Underlying Fetal Glucocorticoid Exposure. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	4
41	Peak Width of Skeletonized Water Diffusion MRI in the Neonatal Brain. <i>Frontiers in Neurology</i> , 2020 , 11, 235	4.1	4
40	Alterations in glucose concentrations affect DNA methylation at <i>Lrg1</i> in an <i>ex vivo</i> rat cortical slice model of preterm brain injury. <i>European Journal of Neuroscience</i> , 2018 , 47, 380-387	3.5	4
39	Atlas selection strategy for automatic segmentation of pediatric brain MRIs into 83 ROIs 2010 ,		4
38	Language function following preterm birth: prediction using machine learning. <i>Pediatric Research</i> , 2021 ,	3.2	4
37	Effect of antenatal magnesium sulphate on MRI biomarkers of white matter development at term equivalent age: The magnum study. <i>EBioMedicine</i> , 2020 , 59, 102957	8.8	3
36	Microglial inflammasome activation drives developmental white matter injury. <i>Glia</i> , 2021 , 69, 1268-1280		3
35	Opioids and the developing brain: time to rethink perinatal care for infants of opioid-dependent mothers. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2021 ,	4.7	3
34	A sparsity-based atlas selection technique for multiple-atlas segmentation: Application to neonatal brain labeling 2016 ,		2
33	Automatic multi-parametric MR registration method using mutual information based on adaptive asymmetric k-means binning 2015 ,		2
32	43 Total Cerebral Volume Measurements Following Preterm Birth. <i>Pediatric Research</i> , 2005 , 58, 361-361	3.2	2
31	Using a knowledge exchange event to assess study participants' attitudes to research in a rapidly evolving research context. <i>Wellcome Open Research</i> , 2020 , 5, 24	4.8	2
30	Using a knowledge exchange event to assess study participants' attitudes to research in a rapidly evolving research context. <i>Wellcome Open Research</i> , 2020 , 5, 24	4.8	2
29	Metabolic adaptations to hypoxia in the neonatal mouse forebrain can occur independently of the transporters SLC7A5 and SLC3A2. <i>Scientific Reports</i> , 2021 , 11, 9092	4.9	2
28	Altered hypothalamic DNA methylation and stress-induced hyperactivity following early life stress. <i>Epigenetics and Chromatin</i> , 2021 , 14, 31	5.8	2

27	Eye-tracking for longitudinal assessment of social cognition in children born preterm. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2021 , 62, 470-480	7.9	2
26	Diffusion MRI parameters of corpus callosum and corticospinal tract in neonates: Comparison between region-of-interest and whole tract averaged measurements. <i>European Journal of Paediatric Neurology</i> , 2018 , 22, 807-813	3.8	2
25	Preterm Birth Is Associated With Immune Dysregulation Which Persists in Infants Exposed to Histologic Chorioamnionitis. <i>Frontiers in Immunology</i> , 2021 , 12, 722489	8.4	2
24	. <i>IEEE Access</i> , 2019 , 7, 56016-56027	3.5	1
23	Perspective from the chairs of the British Association of Perinatal Medicine Framework for Practice working group on neonatal hypoglycaemia. <i>Archives of Disease in Childhood: Education and Practice Edition</i> , 2019 , 104, 27-28	0.5	1
22	A whole brain morphometric analysis of changes associated with pre-term birth 2006 ,		1
21	Tourette's syndrome in the year 2000. <i>Australian and New Zealand Journal of Psychiatry</i> , 1996 , 30, 749-59	2.6	1
20	Longitudinal assessment of social cognition in infants born preterm using eye-tracking and parent-child play. <i>Infant and Child Development</i> , 2021 , 30, e2275	1.4	1
19	Hierarchical complexity of the macro-scale neonatal brain		1
18	Birth weight is associated with brain tissue volumes seven decades later, but not with age-associated changes to brain structure		1
17	DNA methylation and brain dysmaturation in preterm infants		1
16	Early life stress and LPS interact to modify the mouse cortical transcriptome in the neonatal period. <i>Brain, Behavior, & Immunity - Health</i> , 2021 , 13, 100219	5.1	1
15	Perinatal determinants of neonatal hair glucocorticoid concentrations. <i>Psychoneuroendocrinology</i> , 2021 , 128, 105223	5	1
14	Neonatal Morphometric Similarity Networks Predict Atypical Brain Development Associated with Preterm Birth. <i>Lecture Notes in Computer Science</i> , 2018 , 47-57	0.9	1
13	Birth weight is associated with brain tissue volumes seven decades later but not with MRI markers of brain ageing. <i>NeuroImage: Clinical</i> , 2021 , 31, 102776	5.3	1
12	Quantification of Growth and Motion Using Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2006 , 49-60	0.9	1
11	DNA methylation in relation to gestational age and brain dysmaturation in preterm infants.. <i>Brain Communications</i> , 2022 , 4, fcac056	4.5	1
10	Effect of antenatal magnesium sulphate on MRI biomarkers of white matter development at term equivalent age: The MagNUM Study.. <i>EBioMedicine</i> , 2022 , 103923	8.8	1

9	General factors of white matter microstructure from DTI and NODDI in the developing brain.. <i>NeuroImage</i> , 2022 , 254, 119169	7.9	1
8	Emotion regulation and cortisol response to the still-face procedure in preterm and full-term infants.. <i>Psychoneuroendocrinology</i> , 2022 , 141, 105760	5	0
7	Application and potential of artificial intelligence in neonatal medicine.. <i>Seminars in Fetal and Neonatal Medicine</i> , 2022 , 101346	3.7	0
6	Modifiable risk factors for preterm brain injury. <i>Paediatrics and Child Health (United Kingdom)</i> , 2014 , 24, 401-406	0.6	
5	71 Diffusion Tractography of the Corticospinal Tracts in the Developing Preterm Brain. <i>Pediatric Research</i> , 2005 , 58, 366-366	3.2	
4	Parent priorities for research and communication concerning childhood outcomes following preterm birth. <i>Wellcome Open Research</i> , 2021 , 6, 151	4.8	
3	Attention profiles following preterm birth: A review of methods and findings from infancy to adulthood. <i>Infant and Child Development</i> , 2021 , 30, e2255	1.4	
2	Integration of Network-Based Biological Knowledge With White Matter Features in Preterm Infants Using the Graph-Guided Group Lasso 2018 , 45-59		
1	Parent priorities for research and communication concerning childhood outcomes following preterm birth. <i>Wellcome Open Research</i> ,6, 151	4.8	