

James Boardman

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9050550/james-boardman-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	DNA methylation in relation to gestational age and brain dysmaturation in preterm infants.. <i>Brain Communications</i> , 2022 , 4, fca056	4.5	1
115	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
114	Emotion regulation and cortisol response to the still-face procedure in preterm and full-term infants.. <i>Psychoneuroendocrinology</i> , 2022 , 141, 105760	5	0
113	Brain charts for the human lifespan.. <i>Nature</i> , 2022 ,	50.4	15
112	General factors of white matter microstructure from DTI and NODDI in the developing brain.. <i>NeuroImage</i> , 2022 , 254, 119169	7.9	1
111	Application and potential of artificial intelligence in neonatal medicine.. <i>Seminars in Fetal and Neonatal Medicine</i> , 2022 , 101346	3.7	0
110	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
109	Language function following preterm birth: prediction using machine learning. <i>Pediatric Research</i> , 2021 ,	3.2	4
108	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
107	Social cognition following preterm birth: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 124, 151-167	9	8
106	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
105	Parent priorities for research and communication concerning childhood outcomes following preterm birth. <i>Wellcome Open Research</i> , 2021 , 6, 151	4.8	
104	Perinatal determinants of neonatal hair glucocorticoid concentrations. <i>Psychoneuroendocrinology</i> , 2021 , 128, 105223	5	1
103	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	
102	Altered hypothalamic DNA methylation and stress-induced hyperactivity following early life stress. <i>Epigenetics and Chromatin</i> , 2021 , 14, 31	5.8	2
101	Hierarchical Complexity of the Macro-Scale Neonatal Brain. <i>Cerebral Cortex</i> , 2021 , 31, 2071-2084	5.1	5
100	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

99	Microglial inflammasome activation drives developmental white matter injury. <i>Glia</i> , 2021 , 69, 1268-1280g		3
98	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
97	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
96	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
95	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. <i>Brain, Behavior, and Immunity</i> , 2020 , 90, 311-318	16.6	7
94	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
93	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
92	Peak Width of Skeletonized Water Diffusion MRI in the Neonatal Brain. <i>Frontiers in Neurology</i> , 2020 , 11, 235	4.1	4
91	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
90	Maternal cortisol is associated with neonatal amygdala microstructure and connectivity in a sexually dimorphic manner. <i>ELife</i> , 2020 , 9,	8.9	10
89	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
88	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
87	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
86	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
85	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
84	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	10.4	7
83	. <i>IEEE Access</i> , 2019 , 7, 56016-56027	3.5	1
82	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

81	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
80	Early breast milk exposure modifies brain connectivity in preterm infants. <i>NeuroImage</i> , 2019 , 184, 431-439	4.9	49
79	Alterations in glucose concentrations affect DNA methylation at Lrg1 in an ex vivo rat cortical slice model of preterm brain injury. <i>European Journal of Neuroscience</i> , 2018 , 47, 380-387	3.5	4
78	Prenatal methadone exposure is associated with altered neonatal brain development. <i>NeuroImage: Clinical</i> , 2018 , 18, 9-14	5.3	63
77	The Cerebrospinal Fluid Inflammatory Response to Preterm Birth. <i>Frontiers in Physiology</i> , 2018 , 9, 1299	4.6	13
76	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
75	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
74	Integration of Network-Based Biological Knowledge With White Matter Features in Preterm Infants Using the Graph-Guided Group Lasso 2018 , 45-59		
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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

63	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
62	A sparsity-based atlas selection technique for multiple-atlas segmentation: Application to neonatal brain labeling 2016 ,		2
61	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
60	Association between preterm brain injury and exposure to chorioamnionitis during fetal life. <i>Scientific Reports</i> , 2016 , 6, 37932	4.9	67
59	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
58	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
57	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
56	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
55	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
54	Tract shape modeling detects changes associated with preterm birth and neuroprotective treatment effects. <i>NeuroImage: Clinical</i> , 2015 , 8, 51-8	5.3	14
53	Hypoglycaemia and hypoxic-ischaemic encephalopathy. <i>Developmental Medicine and Child Neurology</i> , 2015 , 57 Suppl 3, 29-33	3.3	17
52	Antenatal diagnosis of intracranial haemorrhage and porencephalic cyst. <i>BMJ Case Reports</i> , 2015 , 2015,	0.9	5
51	Automatic multi-parametric MR registration method using mutual information based on adaptive asymmetric k-means binning 2015 ,		2
50	Common genetic variants and risk of brain injury after preterm birth. <i>Pediatrics</i> , 2014 , 133, e1655-63	7.4	32
49	Modifiable risk factors for preterm brain injury. <i>Paediatrics and Child Health (United Kingdom)</i> , 2014 , 24, 401-406	0.6	
48	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
47	Hypoglycaemia and neonatal brain injury. <i>Archives of Disease in Childhood: Education and Practice Edition</i> , 2013 , 98, 2-6	0.5	34
46	The influence of preterm birth on the developing thalamocortical connectome. <i>Cortex</i> , 2013 , 49, 1711-21	3.8	156

45	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
44	LISA: Longitudinal image registration via spatio-temporal atlases 2012 ,		6
43	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
42	The effect of preterm birth on thalamic and cortical development. <i>Cerebral Cortex</i> , 2012 , 22, 1016-24	5.1	221
41	Unsupervised Learning of Shape Complexity: Application to Brain Development. <i>Lecture Notes in Computer Science</i> , 2012 , 88-99	0.9	5
40	A dynamic 4D probabilistic atlas of the developing brain. <i>NeuroImage</i> , 2011 , 54, 2750-63	7.9	213
39	Tracking developmental changes in subcortical structures of the preterm brain using multi-modal MRI 2011 ,		6
38	Diffusion tensor imaging in preterm infants with punctate white matter lesions. <i>Pediatric Research</i> , 2011 , 69, 561-6	3.2	69
37	Atlas selection strategy for automatic segmentation of pediatric brain MRIs into 83 ROIs 2010 ,		4
36	A common neonatal image phenotype predicts adverse neurodevelopmental outcome in children born preterm. <i>NeuroImage</i> , 2010 , 52, 409-14	7.9	126
35	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
34	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
33	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
32	Assessment of brain growth in early childhood using deformation-based morphometry. <i>NeuroImage</i> , 2008 , 39, 348-58	7.9	46
31	Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. <i>NeuroImage</i> , 2008 , 40, 672-684	7.9	239
30	Patterns of cerebral injury and neurodevelopmental outcomes after symptomatic neonatal hypoglycemia. <i>Pediatrics</i> , 2008 , 122, 65-74	7.4	341
29	Specific relations between neurodevelopmental abilities and white matter microstructure in children born preterm. <i>Brain</i> , 2008 , 131, 3201-8	11.2	224
28	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

27	Groupwise combined segmentation and registration for atlas construction 2007 , 10, 532-40		22
26	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
25	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
24	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
23	Thalamo-cortical connectivity in children born preterm mapped using probabilistic magnetic resonance tractography. <i>NeuroImage</i> , 2007 , 34, 896-904	7.9	114
22	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
21	Recent advances in imaging preterm brain injury. <i>Minerva Pediatrica</i> , 2007 , 59, 349-68	1.6	6
20	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
19	Abnormal cortical development after premature birth shown by altered allometric scaling of brain growth. <i>PLoS Medicine</i> , 2006 , 3, e265	11.6	294
18	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. <i>NeuroImage</i> , 2006 , 32, 70-8	7.9	195
17	A whole brain morphometric analysis of changes associated with pre-term birth 2006 ,		1
16	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
15	Quantification of Growth and Motion Using Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2006 , 49-60	0.9	1
14	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
13	43 Total Cerebral Volume Measurements Following Preterm Birth. <i>Pediatric Research</i> , 2005 , 58, 361-361	3.2	2
12	71 Diffusion Tractography of the Corticospinal Tracts in the Developing Preterm Brain. <i>Pediatric Research</i> , 2005 , 58, 366-366	3.2	
11	Magnetic resonance image correlates of hemiparesis after neonatal and childhood middle cerebral artery stroke. <i>Pediatrics</i> , 2005 , 115, 321-6	7.4	135
10	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

9	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
8	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
7	Symptoms of obsessive-compulsive disorder. <i>American Journal of Psychiatry</i> , 1997 , 154, 911-7	11.9	600
6	Tourette's syndrome in the year 2000. <i>Australian and New Zealand Journal of Psychiatry</i> , 1996 , 30, 749-59.	2.6	1
5	Hierarchical complexity of the macro-scale neonatal brain		1
4	Birth weight is associated with brain tissue volumes seven decades later, but not with age-associated changes to brain structure		1
3	DNA methylation and brain dysmaturation in preterm infants		1
2	Brain charts for the human lifespan		8
1	Parent priorities for research and communication concerning childhood outcomes following preterm birth. <i>Wellcome Open Research</i> , 6 , 151	4.8	