Serena Counsell

List of Publications by Year
in descending order

218 papers	17,847 citations	9786 73 h-index	17105 122 g-index
243 all docs	243 docs citations	243 times ranked	11733 citing authors

#	Article	IF	Citations
1	White matter damage and cognitive impairment after traumatic brain injury. Brain, 2011, 134, 449-463.	7.6	541
2	Diffusion-Weighted Imaging of the Brain in Preterm Infants With Focal and Diffuse White Matter Abnormality. Pediatrics, 2003, 112, 1-7.	2.1	474
3	Emergence of resting state networks in the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20015-20020.	7.1	461
4	Natural History of Brain Lesions in Extremely Preterm Infants Studied With Serial Magnetic Resonance Imaging From Birth and Neurodevelopmental Assessment. Pediatrics, 2006, 118, 536-548.	2.1	430
5	Default mode network functional and structural connectivity after traumatic brain injury. Brain, 2011, 134, 2233-2247.	7.6	398
6	Abnormal Magnetic Resonance Signal in the Internal Capsule Predicts Poor Neurodevelopmental Outcome in Infants With Hypoxic-Ischemic Encephalopathy. Pediatrics, 1998, 102, 323-328.	2.1	360
7	Abnormal Cortical Development after Premature Birth Shown by Altered Allometric Scaling of Brain Growth. PLoS Medicine, 2006, 3, e265.	8.4	348
8	Comparison of Findings on Cranial Ultrasound and Magnetic Resonance Imaging in Preterm Infants. Pediatrics, 2001, 107, 719-727.	2.1	343
9	Magnetic resonance imaging of the brain in a cohort of extremely preterm infants. Journal of Pediatrics, 1999, 135, 351-357.	1.8	317
10	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. NeuroImage, 2018, 173, 88-112.	4.2	315
11	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
12	Automatic Whole Brain MRI Segmentation of the Developing Neonatal Brain. IEEE Transactions on Medical Imaging, 2014, 33, 1818-1831.	8.9	296
13	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
14	Early Prognostic Indicators of Outcome in Infants With Neonatal Cerebral Infarction: A Clinical, Electroencephalogram, and Magnetic Resonance Imaging Study. Pediatrics, 1999, 103, 39-46.	2.1	289
15	Diffusion tensor imaging with tract-based spatial statistics reveals local white matter abnormalities in preterm infants. NeuroImage, 2007, 35, 1021-1027.	4.2	287
16	Patterns of Brain Injury in Neonates Exposed to Perinatal Sentinel Events. Pediatrics, 2008, 121, 906-914.	2.1	275
17	The Effect of Preterm Birth on Thalamic and Cortical Development. Cerebral Cortex, 2012, 22, 1016-1024.	2.9	262
18	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

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19	Specific relations between neurodevelopmental abilities and white matter microstructure in children born preterm. Brain, 2008, 131, 3201-3208.	7.6	249
20	A dynamic 4D probabilistic atlas of the developing brain. NeuroImage, 2011, 54, 2750-2763.	4.2	247
21	A dedicated neonatal brain imaging system. Magnetic Resonance in Medicine, 2017, 78, 794-804.	3.0	233
22	Axial and Radial Diffusivity in Preterm Infants Who Have Diffuse White Matter Changes on Magnetic Resonance Imaging at Term-Equivalent Age. Pediatrics, 2006, 117, 376-386.	2.1	226
23	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. NeuroImage, 2006, 32, 70-78.	4.2	220
24	Diffusion-Weighted Magnetic Resonance Imaging in Term Perinatal Brain Injury: A Comparison With Site of Lesion and Time From Birth. Pediatrics, 2004, 114, 1004-1014.	2.1	215
25	Intrauterine T-cell activation and increased proinflammatory cytokine concentrations in preterm infants with cerebral lesions. Lancet, The, 2001, 358, 1699-1700.	13.7	205
26	The influence of preterm birth on the developing thalamocortical connectome. Cortex, 2013, 49, 1711-1721.	2.4	202
27	Thalamocortical Connectivity Predicts Cognition in Children Born Preterm. Cerebral Cortex, 2015, 25, 4310-4318.	2.9	201
28	Early development of structural networks and the impact of prematurity on brain connectivity. NeuroImage, 2017, 149, 379-392.	4.2	187
29	Clinical and imaging findings in six cases of congenital muscular dystrophy with rigid spine syndrome linked to chromosome 1p (RSMD1). Neuromuscular Disorders, 2002, 12, 631-638.	0.6	176
30	Magnetic resonance imaging of the newborn brain: Manual segmentation of labelled atlases in term-born and preterm infants. NeuroImage, 2012, 62, 1499-1509.	4.2	175
31	Development of BOLD signal hemodynamic responses in the human brain. NeuroImage, 2012, 63, 663-673.	4.2	172
32	Probabilistic diffusion tractography of the optic radiations and visual function in preterm infants at term equivalent age. Brain, 2008, 131, 573-582.	7.6	167
33	Regional growth and atlasing of the developing human brain. NeuroImage, 2016, 125, 456-478.	4.2	167
34	Quantification of Deep Gray Matter in Preterm Infants at Term-Equivalent Age Using Manual Volumetry of 3-Tesla Magnetic Resonance Images. Pediatrics, 2007, 119, 759-765.	2.1	155
35	An optimised tract-based spatial statistics protocol for neonates: Applications to prematurity and chronic lung disease. NeuroImage, 2010, 53, 94-102.	4.2	154
36	Magnetic resonance imaging of white matter diseases of prematurity. Neuroradiology, 2010, 52, 505-521.	2.2	149

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37	Neonatal Tract-Based Spatial Statistics Findings and Outcome in Preterm Infants. American Journal of Neuroradiology, 2012, 33, 188-194.	2.4	148
38	A common neonatal image phenotype predicts adverse neurodevelopmental outcome in children born preterm. NeuroImage, 2010, 52, 409-414.	4.2	147
39	A review on automatic fetal and neonatal brain MRI segmentation. NeuroImage, 2018, 170, 231-248.	4.2	143
40	Magnetic Resonance Imaging of the Brain in Very Preterm Infants: Visualization of the Germinal Matrix, Early Myelination, and Cortical Folding. Pediatrics, 1998, 101, 957-962.	2.1	139
41	Magnetic resonance imaging in perinatal brain injury: clinical presentation, lesions and outcome. Pediatric Radiology, 2006, 36, 582-592.	2.0	137
42	Magnetic resonance imaging of muscle in congenital myopathies associated with RYR1 mutations. Neuromuscular Disorders, 2004, 14, 785-790.	0.6	135
43	Relationship Between White Matter Apparent Diffusion Coefficients in Preterm Infants at Term-Equivalent Age and Developmental Outcome at 2 Years. Pediatrics, 2007, 120, e604-e609.	2.1	134
44	Magnetic resonance imaging of preterm brain injury. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2003, 88, 269F-274.	2.8	133
45	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
46	Head Growth in Infants With Hypoxicâ€"Ischemic Encephalopathy: Correlation With Neonatal Magnetic Resonance Imaging. Pediatrics, 2000, 106, 235-243.	2.1	127
47	MR imaging assessment of myelination in the very preterm brain. American Journal of Neuroradiology, 2002, 23, 872-81.	2.4	125
48	Thalamo-cortical connectivity in children born preterm mapped using probabilistic magnetic resonance tractography. NeuroImage, 2007, 34, 896-904.	4.2	124
49	The emergence of functional architecture during early brain development. NeuroImage, 2017, 160, 2-14.	4.2	119
50	A short protocol for muscle MRI in children with muscular dystrophies. European Journal of Paediatric Neurology, 2002, 6, 305-307.	1.6	105
51	Perinatal cortical growth and childhood neurocognitive abilities. Neurology, 2011, 77, 1510-1517.	1.1	103
52	Somatosensory cortical activation identified by functional MRI in preterm and term infants. NeuroImage, 2010, 49, 2063-2071.	4.2	102
53	Reduced Fractional Anisotropy on Diffusion Tensor Magnetic Resonance Imaging After Hypoxic-Ischemic Encephalopathy. Pediatrics, 2006, 117, e619-e630.	2.1	100
54	Regional changes in thalamic shape and volume with increasing age. NeuroImage, 2012, 63, 1134-1142.	4.2	100

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55	Magnetic resonance imaging of muscle in nemaline myopathy. Neuromuscular Disorders, 2004, 14, 779-784.	0.6	98
56	Smaller cerebellar volumes in very preterm infants at term-equivalent age are associated with the presence of supratentorial lesions. American Journal of Neuroradiology, 2006, 27, 573-9.	2.4	97
57	Neurologic examination in infants with hypoxic-ischemic encephalopathy at age 9 to 14 months: Use of optimality scores and correlation with magnetic resonance imaging findings. Journal of Pediatrics, 2001, 138, 332-337.	1.8	94
58	Motion-Compensation Techniques in Neonatal and Fetal MR Imaging. American Journal of Neuroradiology, 2013, 34, 1124-1136.	2.4	94
59	MRI and neuropsychological improvement in Huntington disease following ethyl-EPA treatment. NeuroReport, 2002, 13, 123-126.	1.2	93
60	Cerebral Intracellular Lactic Alkalosis Persisting Months after Neonatal Encephalopathy Measured by Magnetic Resonance Spectroscopy. Pediatric Research, 1999, 46, 287-296.	2.3	93
61	Machine-learning to characterise neonatal functional connectivity in the preterm brain. NeuroImage, 2016, 124, 267-275.	4.2	92
62	Magnetic resonance imaging in hypoxic-ischaemic encephalopathy. Early Human Development, 2010, 86, 351-360.	1.8	90
63	Early growth in brain volume is preserved in the majority of preterm infants. Annals of Neurology, 2007, 62, 185-192.	5.3	89
64	Diffusion tensor imaging (DTI) of the brain in moving subjects: Application to inâ€utero fetal and exâ€utero studies. Magnetic Resonance in Medicine, 2009, 62, 645-655.	3.0	88
65	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
66	Exploring the multiple-hit hypothesis of preterm white matter damage using diffusion MRI. NeuroImage: Clinical, 2018, 17, 596-606.	2.7	87
67	Effect of MRI on preterm infants and their families: a randomised trial with nested diagnostic and economic evaluation. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2018, 103, F15-F21.	2.8	86
68	Serial brain MRI and ultrasound findings: Relation to gestational age, bilirubin level, neonatal neurologic status and neurodevelopmental outcome in infants at risk of kernicterus. Early Human Development, 2008, 84, 829-838.	1.8	85
69	Evaluation of automatic neonatal brain segmentation algorithms: The NeoBrainS12 challenge. Medical Image Analysis, 2015, 20, 135-151.	11.6	85
70	Prediction of neurodevelopmental outcome after hypoxicâ€"ischemic encephalopathy treated with hypothermia by diffusion tensor imaging analyzed using tract-based spatial statistics. Pediatric Research, 2012, 72, 63-69.	2.3	83
71	MRI of perinatal brain injury. Pediatric Radiology, 2010, 40, 819-833.	2.0	82
72	Diffusion Tensor Imaging in Preterm Infants With Punctate White Matter Lesions. Pediatric Research, 2011, 69, 561-566.	2.3	80

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73	Relationship between MR imaging and histopathologic findings of the brain in extremely sick preterm infants. American Journal of Neuroradiology, 1999, 20, 1349-57.	2.4	80
74	Magnetic Resonance Imaging of the Newborn Brain: Automatic Segmentation of Brain Images into 50 Anatomical Regions. PLoS ONE, 2013, 8, e59990.	2.5	78
75	<scp>MRI</scp> of the Neonatal Brain: A Review of Methodological Challenges and Neuroscientific Advances. Journal of Magnetic Resonance Imaging, 2021, 53, 1318-1343.	3.4	78
76	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. Brain, 2021, 144, 2199-2213.	7.6	75
77	Early Increases in Brain myo-Inositol Measured by Proton Magnetic Resonance Spectroscopy in Term Infants with Neonatal Encephalopathy. Pediatric Research, 2001, 50, 692-700.	2.3	74
78	Differential brain growth in the infant born preterm: Current knowledge and future developments from brain imaging. Seminars in Fetal and Neonatal Medicine, 2005, 10, 403-410.	2.3	74
79	Different patterns of cortical maturation before and after 38 weeks gestational age demonstrated by diffusion MRI in vivo. NeuroImage, 2019, 185, 764-775.	4.2	73
80	The Association of Lung Disease With Cerebral White Matter Abnormalities in Preterm Infants. Pediatrics, 2009, 124, 268-276.	2.1	71
81	Maturation of Sensori-Motor Functional Responses in the Preterm Brain. Cerebral Cortex, 2016, 26, 402-413.	2.9	71
82	Eicosapentaenoic acid in treatment-resistant depression associated with symptom remission, structural brain changes and reduced neuronal phospholipid turnover. International Journal of Clinical Practice, 2001, 55, 560-3.	1.7	69
83	Relative increase in choline in the occipital cortex in chronic fatigue syndrome. Acta Psychiatrica Scandinavica, 2002, 106, 224-226.	4.5	66
84	Evolution of Unilateral Perinatal Arterial Ischemic Stroke on Conventional and Diffusion-Weighted MR Imaging. American Journal of Neuroradiology, 2009, 30, 998-1004.	2.4	63
85	Multimodal image analysis of clinical influences on preterm brain development. Annals of Neurology, 2017, 82, 233-246.	5.3	61
86	Current and future applications of magnetic resonance imaging and spectroscopy of the brain in hepatic encephalopathy. World Journal of Gastroenterology, 2006, 12, 2969.	3.3	61
87	Characterization of Cerebral White Matter Damage in Preterm Infants Using 1H and 31P Magnetic Resonance Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1446-1456.	4.3	60
88	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. Scientific Reports, 2017, 7, 15088.	3.3	60
89	Tract-Based Spatial Statistics of Magnetic Resonance Images to Assess Disease and Treatment Effects in Perinatal Asphyxial Encephalopathy. Pediatric Research, 2010, 68, 205-209.	2.3	58
90	Diffusion magnetic resonance imaging in preterm brain injury. Neuroradiology, 2013, 55, 65-95.	2.2	56

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91	Punctate White Matter Lesions Associated With Altered Brain Development And Adverse Motor Outcome In Preterm Infants. Scientific Reports, 2017, 7, 13250.	3.3	56
92	Connecting the developing preterm brain. Early Human Development, 2008, 84, 777-782.	1.8	55
93	Maternal Prenatal Stress Is Associated With Altered Uncinate Fasciculus Microstructure in Premature Neonates. Biological Psychiatry, 2020, 87, 559-569.	1.3	55
94	Development of human white matter pathways in utero over the second and third trimester. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	55
95	Heterogeneity in Brain Microstructural Development Following Preterm Birth. Cerebral Cortex, 2020, 30, 4800-4810.	2.9	54
96	Structural linear measurements in the newborn brain: accuracy of cranial ultrasound compared to MRI. Pediatric Radiology, 2007, 37, 640-648.	2.0	52
97	Correction of high-order eddy current induced geometric distortion in diffusion-weighted echo-planar images. Magnetic Resonance in Medicine, 2004, 52, 1184-1189.	3.0	51
98	Magnetic resonance imaging in neonatal encephalopathy. Early Human Development, 2005, 81, 13-25.	1.8	49
99	Development of the optic radiations and visual function after premature birth. Cortex, 2014, 56, 30-37.	2.4	49
100	Abnormal Microstructural Development of the Cerebral Cortex in Neonates With Congenital Heart Disease Is Associated With Impaired Cerebral Oxygen Delivery. Journal of the American Heart Association, 2019, 8, e009893.	3.7	48
101	A framework for multi-component analysis of diffusion MRI data over the neonatal period. NeuroImage, 2019, 186, 321-337.	4.2	47
102	Neuroimaging, cardiovascular physiology, and functional outcomes in infants with congenital heart disease. Developmental Medicine and Child Neurology, 2017, 59, 894-902.	2.1	46
103	Recent advances in diffusion neuroimaging: applications in the developing preterm brain. F1000Research, 2018, 7, 1326.	1.6	45
104	Magnetic Resonance Imaging of Lung Water Content and Distribution in Term and Preterm Infants. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 397-402.	5.6	44
105	Magnetic resonance and ultrasound brain imaging in preterm infants. Early Human Development, 2005, 81, 263-271.	1.8	44
106	Invited Review: Factors associated with atypical brain development in preterm infants: insights from magnetic resonance imaging. Neuropathology and Applied Neurobiology, 2020, 46, 413-421.	3.2	44
107	Modelling brain development to detect white matter injury in term and preterm born neonates. Brain, 2020, 143, 467-479.	7.6	44
108	Increased lung water and tissue damage in bronchopulmonary dysplasia. Journal of Pediatrics, 2004, 145, 503-507.	1.8	43

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109	A Combined Manifold Learning Analysis of Shape and Appearance to Characterize Neonatal Brain Development. IEEE Transactions on Medical Imaging, 2011, 30, 2072-2086.	8.9	43
110	Tractography of the corticospinal tracts in infants with focal perinatal injury: comparison with normal controls and to motor development. Neuroradiology, 2012, 54, 507-516.	2.2	43
111	Common Genetic Variants and Risk of Brain Injury After Preterm Birth. Pediatrics, 2014, 133, e1655-e1663.	2.1	43
112	Longitudinal Regional Brain Development and Clinical Risk Factors in Extremely Preterm Infants. Journal of Pediatrics, 2016, 178, 93-100.e6.	1.8	42
113	The Developing Human Connectome Project Neonatal Data Release. Frontiers in Neuroscience, 2022, 16, .	2.8	42
114	High b-Value Diffusion Tensor Imaging of the Neonatal Brain at 3T. American Journal of Neuroradiology, 2008, 29, 1966-1972.	2.4	41
115	A patient care system for early 3.0Tesla magnetic resonance imaging of very low birth weight infants. Early Human Development, 2009, 85, 779-783.	1.8	40
116	Magnetic Resonance Imaging of Brain Injury in the High-Risk Term Infant. Seminars in Perinatology, 2010, 34, 67-78.	2.5	40
117	The effects of hemorrhagic parenchymal infarction on the establishment of sensori-motor structural and functional connectivity in early infancy. Neuroradiology, 2014, 56, 985-994.	2.2	40
118	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. Human Brain Mapping, 2017, 38, 3836-3847.	3.6	40
119	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. NeuroImage, 2021, 243, 118488.	4.2	40
120	T2 relaxation values in the developing preterm brain. American Journal of Neuroradiology, 2003, 24, 1654-60.	2.4	40
121	Physiological stability of preterm infants during magnetic resonance imaging. Early Human Development, 1998, 52, 101-110.	1.8	39
122	Chiari I malformation in asymptomatic young children with williams syndrome: clinical and MRI study. European Journal of Paediatric Neurology, 1997, 1, 177-181.	1.6	37
123	Neuroimaging findings in newborns with congenital heart disease prior to surgery: an observational study. Archives of Disease in Childhood, 2019, 104, 1042-1048.	1.9	37
124	A tract-specific approach to assessing white matter in preterm infants. NeuroImage, 2017, 157, 675-694.	4.2	35
125	Groupwise Combined Segmentation and Registration for Atlas Construction. , 2007, 10, 532-540.		34
126	Muscle MRI findings in a three-generation family affected by Bethlem myopathy. European Journal of Paediatric Neurology, 2002, 6, 309-314.	1.6	34

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127	MR imaging of the neonatal brain at 3 Tesla. European Journal of Paediatric Neurology, 2004, 8, 281-289.	1.6	33
128	Cognitive abilities in children with congenital muscular dystrophy: correlation with brain MRI and merosin status. Neuromuscular Disorders, 1999, 9, 383-387.	0.6	32
129	The Anatomic Variations of the Circle of Willis in Preterm-at-Term and Term-Born Infants: An MR Angiography Study at 3T. American Journal of Neuroradiology, 2009, 30, 1955-1962.	2.4	32
130	Magnetic resonance imaging of the brain of premature infants. Lancet, The, 1997, 349, 1741.	13.7	31
131	Early life exposure to air pollution impacts neuronal and glial cell function leading to impaired neurodevelopment. BioEssays, 2021, 43, e2000288.	2.5	30
132	Machine learning shows association between genetic variability in <i>PPARG</i> and cerebral connectivity in preterm infants. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13744-13749.	7.1	29
133	The effect of preterm birth on neonatal cerebral vasculature studied with magnetic resonance angiography at 3 Tesla. NeuroImage, 2006, 32, 1050-1059.	4.2	28
134	Magnetic Resonance Imaging of Intestinal Necrosis in Preterm Infants. Pediatrics, 2000, 105, 510-514.	2.1	27
135	New imaging approaches to evaluate newborn brain injury and their role in predicting developmental disorders. Current Opinion in Neurology, 2014, 27, 168-175.	3.6	27
136	Fixel-based analysis of the preterm brain: Disentangling bundle-specific white matter microstructural and macrostructural changes in relation to clinical risk factors. NeuroImage: Clinical, 2019, 23, 101820.	2.7	27
137	Testing the Sensitivity of Tract-Based Spatial Statistics to Simulated Treatment Effects in Preterm Neonates. PLoS ONE, 2013, 8, e67706.	2.5	27
138	Severity of perinatal illness and cerebral cortical growth in preterm infants. Acta Paediatrica, International Journal of Paediatrics, 2009, 98, 990-995.	1.5	26
139	Periventricular haemorrhagic infarct in a preterm neonate. European Journal of Paediatric Neurology, 1999, 3, 25-28.	1.6	25
140	Possible relationship between common genetic variation and white matter development in a pilot study of preterm infants. Brain and Behavior, 2016, 6, e00434.	2.2	25
141	MRI Findings at Term-Corrected Age and Neurodevelopmental Outcomes in a Large Cohort of Very Preterm Infants. American Journal of Neuroradiology, 2020, 41, 1509-1516.	2.4	25
142	Associations Between Neonatal Brain Structure, the Home Environment, and Childhood Outcomes Following Very Preterm Birth. Biological Psychiatry Global Open Science, 2021, 1, 146-155.	2.2	25
143	Neonatal neuroimaging: Going beyond the pictures. Early Human Development, 2009, 85, S75-S77.	1.8	24
144	ADHD symptoms and their neurodevelopmental correlates in children born very preterm. PLoS ONE, 2020, 15, e0224343.	2.5	24

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145	Neurodevelopmental Outcomes following Intrauterine Growth Restriction and Very Preterm Birth. Journal of Pediatrics, 2021, 238, 135-144.e10.	1.8	24
146	Neonatal White Matter Microstructure and Emotional Development during the Preschool Years in Children Who Were Born Very Preterm. ENeuro, 2021, 8, ENEURO.0546-20.2021.	1.9	24
147	Frequently encountered cranial ultrasound features in the white matter of preterm infants: Correlation with MRI. European Journal of Paediatric Neurology, 2009, 13, 317-326.	1.6	22
148	Development of the Corticospinal and Callosal Tracts from Extremely Premature Birth up to 2 Years of Age. PLoS ONE, 2015, 10, e0125681.	2.5	22
149	Corticospinal Tract Injury Precedes Thalamic Volume Reduction in Preterm Infants with Cystic Periventricular Leukomalacia. Journal of Pediatrics, 2015, 167, 260-268.e3.	1.8	22
150	Cerebello-cerebral connectivity in the developing brain. Brain Structure and Function, 2017, 222, 1625-1634.	2.3	22
151	Magnetic Resonance Imaging Assessment of Infantile Myofibromatosis. Clinical Radiology, 2002, 57, 67-70.	1.1	21
152	Fetal and neonatal neuroimaging. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2019, 162, 67-103.	1.8	21
153	Cognitive function in toddlers with congenital heart disease: The impact of a stimulating home environment. Infancy, 2021, 26, 184-199.	1.6	21
154	A Uniform Description of Perioperative Brain MRI Findings in Infants with Severe Congenital Heart Disease: Results of a European Collaboration. American Journal of Neuroradiology, 2021, 42, 2034-2039.	2.4	21
155	Congenital Muscular Dystrophy with Secondary Merosin Deficiency and Normal Brain MRI: A Novel Entity?. Neuropediatrics, 2000, 31, 186-189.	0.6	20
156	DTI reveals network injury in perinatal stroke. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2012, 97, F362-F364.	2.8	19
157	Individualized brain development and cognitive outcome in infants with congenital heart disease. Brain Communications, 2021, 3, fcab046.	3.3	19
158	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. Cerebral Cortex, 2021, 31, 3665-3677.	2.9	19
159	Diffusion-weighted imaging and its relationship to microglial activation in parkinsonian syndromes. Parkinsonism and Related Disorders, 2013, 19, 527-532.	2.2	18
160	Altered white matter and cortical structure in neonates with antenatally diagnosed isolated ventriculomegaly. NeuroImage: Clinical, 2016, 11, 139-148.	2.7	18
161	Changes in brain morphology and microstructure in relation to early brain activity in extremely preterm infants. Pediatric Research, 2018, 83, 834-842.	2.3	18
162	A dataâ€driven approach to optimising the encoding for multiâ€shell diffusion MRI with application to neonatal imaging. NMR in Biomedicine, 2020, 33, e4348.	2.8	18

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163	Brain Development in Preterm Infants Assessed Using Advanced MRI Techniques. Clinics in Perinatology, 2014, 41, 25-45.	2.1	17
164	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. Scientific Reports, 2020, 10, 14909.	3.3	17
165	Increase in Brain Volumes after Implementation of a Nutrition Regimen in Infants Born Extremely Preterm. Journal of Pediatrics, 2020, 223, 57-63.e5.	1.8	17
166	A multimodal imaging study of recognition memory in very preterm born adults. Human Brain Mapping, 2017, 38, 644-655.	3.6	16
167	White and grey matter development in utero assessed using motion-corrected diffusion tensor imaging and its comparison to ex utero measures. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 473-485.	2.0	15
168	Functional thalamocortical connectivity at term equivalent age and outcome at 2 years in infants born preterm. Cortex, 2021, 135, 17-29.	2.4	15
169	Early white matter changes on brain magnetic resonance imaging in a newborn affected by merosin-deficient congenital muscular dystrophy. Neuromuscular Disorders, 2001, 11, 297-299.	0.6	14
170	Quantitative assessment of myelination patterns in preterm neonates using T2-weighted MRI. Scientific Reports, 2019, 9, 12938.	3.3	14
171	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. NeuroImage: Clinical, 2020, 28, 102423.	2.7	14
172	Neonatal amygdala resting-state functional connectivity and socio-emotional development in very preterm children. Brain Communications, 2022, 4, fcac009.	3.3	14
173	Magnetic resonance imaging of the newborn brain. Current Paediatrics, 2002, 12, 401-413.	0.2	13
174	Magnetic Resonance Imaging of the Brain in Preterm Infants. , 2005, , 199-234.		13
175	Polygenic risk for neuropsychiatric disease and vulnerability to abnormal deep grey matter development. Scientific Reports, 2019, 9, 1976.	3.3	13
176	Cerebral metabolism in male patients with schizophrenia who have seriously and dangerously violently offended: a 31P magnetic resonance spectroscopy study. Prostaglandins Leukotrienes and Essential Fatty Acids, 2004, 70, 409-411.	2.2	12
177	Parental age effects on neonatal white matter development. NeuroImage: Clinical, 2020, 27, 102283.	2.7	12
178	Verbal Fluency Is Affected by Altered Brain Lateralization in Adults Who Were Born Very Preterm. ENeuro, 2019, 6, ENEURO.0274-18.2018.	1.9	12
179	Brain cell membrane motion-restricted phospholipids in patients with schizophrenia who have seriously and dangerously violently offended. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2008, 32, 751-754.	4.8	11
180	LISA: Longitudinal image registration via spatio-temporal atlases. , 2012, , .		11

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181	Phosphorus-31 brain MR spectroscopy in women during and after pregnancy compared with nonpregnant control subjects. American Journal of Neuroradiology, 2005, 26, 352-6.	2.4	11
182	Predicting age and clinical risk from the neonatal connectome. NeuroImage, 2022, 257, 119319.	4.2	11
183	Early postnatal maternal trait anxiety is associated with the behavioural outcomes of children born preterm <33 weeks. Journal of Psychiatric Research, 2020, 131, 160-168.	3.1	10
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