Dafnis Batalle

List of Publications by Year
in descending order

49	1,776	279798	330143
papers	citations	23 h-index	37 g-index

63	63	63	2303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Early development of structural networks and the impact of prematurity on brain connectivity. NeuroImage, 2017, 149, 379-392.	4.2	187
2	Altered small-world topology of structural brain networks in infants with intrauterine growth restriction and its association with later neurodevelopmental outcome. NeuroImage, 2012, 60, 1352-1366.	4.2	151
3	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. Neuroscience and Biobehavioral Reviews, 2019, 104, 240-254.	6.1	88
4	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. Brain, 2021, 144, 2199-2213.	7.6	75
5	Annual Research Review: Not just a small adult brain: understanding later neurodevelopment through imaging the neonatal brain. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2018, 59, 350-371.	5.2	73
6	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
7	Neonatal Neurobehavior and Diffusion MRI Changes in Brain Reorganization Due to Intrauterine Growth Restriction in a Rabbit Model. PLoS ONE, 2012, 7, e31497.	2.5	73
8	Normalization of similarity-based individual brain networks from gray matter MRI and its association with neurodevelopment in infants with intrauterine growth restriction. NeuroImage, 2013, 83, 901-911.	4.2	58
9	Heterogeneity in Brain Microstructural Development Following Preterm Birth. Cerebral Cortex, 2020, 30, 4800-4810.	2.9	54
10	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
11	The Ins and Outs of the BCCAo Model for Chronic Hypoperfusion: A Multimodal and Longitudinal MRI Approach. PLoS ONE, 2013, 8, e74631.	2.5	45
12	Recent advances in diffusion neuroimaging: applications in the developing preterm brain. F1000Research, 2018, 7, 1326.	1.6	45
13	Modelling brain development to detect white matter injury in term and preterm born neonates. Brain, 2020, 143, 467-479.	7.6	44
14	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. Cerebral Cortex, 2020, 30, 5767-5779.	2.9	42
15	The Developing Human Connectome Project Neonatal Data Release. Frontiers in Neuroscience, 2022, 16, .	2.8	42
16	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. Human Brain Mapping, 2017, 38, 3836-3847.	3.6	40
17	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. NeuroImage, 2021, 243, 118488.	4.2	40
18	Long-Term Functional Outcomes and Correlation with Regional Brain Connectivity by MRI Diffusion Tractography Metrics in a Near-Term Rabbit Model of Intrauterine Growth Restriction. PLoS ONE, 2013, 8, e76453.	2.5	38

#	Article	IF	Citations
19	A tract-specific approach to assessing white matter in preterm infants. NeuroImage, 2017, 157, 675-694.	4.2	35
20	Long-term reorganization of structural brain networks in a rabbit model of intrauterine growth restriction. NeuroImage, 2014, 100, 24-38.	4.2	32
21	Structural Brain Network Reorganization and Social Cognition Related to Adverse Perinatal Condition from Infancy to Early Adolescence. Frontiers in Neuroscience, 2016, 10, 560.	2.8	32
22	Emerging functional connectivity differences in newborn infants vulnerable to autism spectrum disorders. Translational Psychiatry, 2020, 10, 131.	4.8	31
23	A Magnetic Resonance Image Based Atlas of the Rabbit Brain for Automatic Parcellation. PLoS ONE, 2013, 8, e67418.	2.5	30
24	Motor and cortico-striatal-thalamic connectivity alterations in intrauterine growth restriction. American Journal of Obstetrics and Gynecology, 2016, 214, 725.e1-725.e9.	1.3	30
25	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
26	Social Brain Functional Maturation in Newborn Infants With and Without a Family History of Autism Spectrum Disorder. JAMA Network Open, 2019, 2, e191868.	5.9	25
27	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
28	ADHD symptoms and their neurodevelopmental correlates in children born very preterm. PLoS ONE, 2020, 15, e0224343.	2.5	24
29	Neurodevelopmental Outcomes following Intrauterine Growth Restriction and Very Preterm Birth. Journal of Pediatrics, 2021, 238, 135-144.e10.	1.8	24
30	Cerebello-cerebral connectivity in the developing brain. Brain Structure and Function, 2017, 222, 1625-1634.	2.3	22
31	Altered resting-state whole-brain functional networks of neonates with intrauterine growth restriction. Cortex, 2016, 77, 119-131.	2.4	19
32	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
33	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. Scientific Reports, 2020, 10, 14909.	3.3	17
34	Neurodevelopmental Effects of Undernutrition and Placental Underperfusion in Fetal Growth Restriction Rabbit Models. Fetal Diagnosis and Therapy, 2017, 42, 189-197.	1.4	15
35	Early Environmental Enrichment Enhances Abnormal Brain Connectivity in a Rabbit Model of Intrauterine Growth Restriction. Fetal Diagnosis and Therapy, 2018, 44, 184-193.	1.4	15
36	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. NeuroImage: Clinical, 2020, 28, 102423.	2.7	14

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37	Parental age effects on neonatal white matter development. NeuroImage: Clinical, 2020, 27, 102283.	2.7	12
38	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes. Developmental Cognitive Neuroscience, 2022, 54, 101103.	4.0	11
39	Predicting age and clinical risk from the neonatal connectome. NeuroImage, 2022, 257, 119319.	4.2	11
40	Diffusion magnetic resonance imaging assessment of regional white matter maturation in preterm neonates. Neuroradiology, 2021, 63, 573-583.	2.2	10
41	Harmonized Segmentation of Neonatal Brain MRI. Frontiers in Neuroscience, 2021, 15, 662005.	2.8	9
42	Multi-Channel 4D Parametrized Atlas of Macro- and Microstructural Neonatal Brain Development. Frontiers in Neuroscience, 2021, 15, 661704.	2.8	8
43	Exploring the relationship between maternal prenatal stress and brain structure in premature neonates. PLoS ONE, 2021, 16, e0250413.	2.5	6
44	Cortical thinning and altered functional brain coherence in survivors of childhood sarcoma. Brain Imaging and Behavior, 2021, 15, 677-688.	2.1	5
45	Brain network hubs and cognitive performance of survivors of childhood infratentorial tumors. Radiotherapy and Oncology, 2021, 161, 118-125.	0.6	5
46	The developing brain structural and functional connectome fingerprint. Developmental Cognitive Neuroscience, 2022, 55, 101117.	4.0	5
47	Effects of gestational age at birth on perinatal structural brain development in healthy termâ€born babies. Human Brain Mapping, 2022, 43, 1577-1589.	3.6	3
48	Harmonised Segmentation of Neonatal Brain MRI: A Domain Adaptation Approach. Lecture Notes in Computer Science, 2020, , 253-263.	1.3	2
49	Altered structural brain network topology in infants with intrauterine growth restriction. , 2012, , .		1