

Dafnis Batalle

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,776
citations

279487

23
h-index

329751

37
g-index

63
all docs

63
docs citations

63
times ranked

2303
citing authors

#	ARTICLE	IF	CITATIONS
1	Early development of structural networks and the impact of prematurity on brain connectivity. <i>NeuroImage</i> , 2017, 149, 379-392.	2.1	187
2	Altered small-world topology of structural brain networks in infants with intrauterine growth restriction and its association with later neurodevelopmental outcome. <i>NeuroImage</i> , 2012, 60, 1352-1366.	2.1	151
3	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 104, 240-254.	2.9	88
4	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. <i>Brain</i> , 2021, 144, 2199-2213.	3.7	75
5	Annual Research Review: Not just a small adult brain: understanding later neurodevelopment through imaging the neonatal brain. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2018, 59, 350-371.	3.1	73
6	Different patterns of cortical maturation before and after 38 weeks gestational age demonstrated by diffusion MRI in vivo. <i>NeuroImage</i> , 2019, 185, 764-775.	2.1	73
7	Neonatal Neurobehavior and Diffusion MRI Changes in Brain Reorganization Due to Intrauterine Growth Restriction in a Rabbit Model. <i>PLoS ONE</i> , 2012, 7, e31497.	1.1	73
8	Normalization of similarity-based individual brain networks from gray matter MRI and its association with neurodevelopment in infants with intrauterine growth restriction. <i>NeuroImage</i> , 2013, 83, 901-911.	2.1	58
9	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , 2020, 30, 4800-4810.	1.6	54
10	Abnormal Microstructural Development of the Cerebral Cortex in Neonates With Congenital Heart Disease Is Associated With Impaired Cerebral Oxygen Delivery. <i>Journal of the American Heart Association</i> , 2019, 8, e009893.	1.6	48
11	The Ins and Outs of the BCCAO Model for Chronic Hypoperfusion: A Multimodal and Longitudinal MRI Approach. <i>PLoS ONE</i> , 2013, 8, e74631.	1.1	45
12	Recent advances in diffusion neuroimaging: applications in the developing preterm brain. <i>F1000Research</i> , 2018, 7, 1326.	0.8	45
13	Modelling brain development to detect white matter injury in term and preterm born neonates. <i>Brain</i> , 2020, 143, 467-479.	3.7	44
14	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. <i>Cerebral Cortex</i> , 2020, 30, 5767-5779.	1.6	42
15	The Developing Human Connectome Project Neonatal Data Release. <i>Frontiers in Neuroscience</i> , 2022, 16, .	1.4	42
16	Language ability in preterm children is associated with arcuate fasciculi microstructure at term. <i>Human Brain Mapping</i> , 2017, 38, 3836-3847.	1.9	40
17	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. <i>NeuroImage</i> , 2021, 243, 118488.	2.1	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. <i>PLoS ONE</i> , 2013, 8, e76453.	1.1	38

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19	A tract-specific approach to assessing white matter in preterm infants. <i>NeuroImage</i> , 2017, 157, 675-694.	2.1	35
20	Long-term reorganization of structural brain networks in a rabbit model of intrauterine growth restriction. <i>NeuroImage</i> , 2014, 100, 24-38.	2.1	32
21	Structural Brain Network Reorganization and Social Cognition Related to Adverse Perinatal Condition from Infancy to Early Adolescence. <i>Frontiers in Neuroscience</i> , 2016, 10, 560.	1.4	32
22	Emerging functional connectivity differences in newborn infants vulnerable to autism spectrum disorders. <i>Translational Psychiatry</i> , 2020, 10, 131.	2.4	31
23	A Magnetic Resonance Image Based Atlas of the Rabbit Brain for Automatic Parcellation. <i>PLoS ONE</i> , 2013, 8, e67418.	1.1	30
24	Motor and cortico-striatal-thalamic connectivity alterations in intrauterine growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 214, 725.e1-725.e9.	0.7	30
25	Fixel-based analysis of the preterm brain: Disentangling bundle-specific white matter microstructural and macrostructural changes in relation to clinical risk factors. <i>NeuroImage: Clinical</i> , 2019, 23, 101820.	1.4	27
26	Social Brain Functional Maturation in Newborn Infants With and Without a Family History of Autism Spectrum Disorder. <i>JAMA Network Open</i> , 2019, 2, e191868.	2.8	25
27	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.	1.0	25
28	ADHD symptoms and their neurodevelopmental correlates in children born very preterm. <i>PLoS ONE</i> , 2020, 15, e0224343.	1.1	24
29	Neurodevelopmental Outcomes following Intrauterine Growth Restriction and Very Preterm Birth. <i>Journal of Pediatrics</i> , 2021, 238, 135-144.e10.	0.9	24
30	Cerebello-cerebral connectivity in the developing brain. <i>Brain Structure and Function</i> , 2017, 222, 1625-1634.	1.2	22
31	Altered resting-state whole-brain functional networks of neonates with intrauterine growth restriction. <i>Cortex</i> , 2016, 77, 119-131.	1.1	19
32	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. <i>Cerebral Cortex</i> , 2021, 31, 3665-3677.	1.6	19
33	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. <i>Scientific Reports</i> , 2020, 10, 14909.	1.6	17
34	Neurodevelopmental Effects of Undernutrition and Placental Underperfusion in Fetal Growth Restriction Rabbit Models. <i>Fetal Diagnosis and Therapy</i> , 2017, 42, 189-197.	0.6	15
35	Early Environmental Enrichment Enhances Abnormal Brain Connectivity in a Rabbit Model of Intrauterine Growth Restriction. <i>Fetal Diagnosis and Therapy</i> , 2018, 44, 184-193.	0.6	15
36	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. <i>NeuroImage: Clinical</i> , 2020, 28, 102423.	1.4	14

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37	Parental age effects on neonatal white matter development. <i>NeuroImage: Clinical</i> , 2020, 27, 102283.	1.4	12
38	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101103.	1.9	11
39	Predicting age and clinical risk from the neonatal connectome. <i>NeuroImage</i> , 2022, 257, 119319.	2.1	11
40	Diffusion magnetic resonance imaging assessment of regional white matter maturation in preterm neonates. <i>Neuroradiology</i> , 2021, 63, 573-583.	1.1	10
41	Harmonized Segmentation of Neonatal Brain MRI. <i>Frontiers in Neuroscience</i> , 2021, 15, 662005.	1.4	9
42	Multi-Channel 4D Parametrized Atlas of Macro- and Microstructural Neonatal Brain Development. <i>Frontiers in Neuroscience</i> , 2021, 15, 661704.	1.4	8
43	Exploring the relationship between maternal prenatal stress and brain structure in premature neonates. <i>PLoS ONE</i> , 2021, 16, e0250413.	1.1	6
44	Cortical thinning and altered functional brain coherence in survivors of childhood sarcoma. <i>Brain Imaging and Behavior</i> , 2021, 15, 677-688.	1.1	5
45	Brain network hubs and cognitive performance of survivors of childhood infratentorial tumors. <i>Radiotherapy and Oncology</i> , 2021, 161, 118-125.	0.3	5
46	The developing brain structural and functional connectome fingerprint. <i>Developmental Cognitive Neuroscience</i> , 2022, 55, 101117.	1.9	5
47	Effects of gestational age at birth on perinatal structural brain development in healthy term-born babies. <i>Human Brain Mapping</i> , 2022, 43, 1577-1589.	1.9	3
48	Harmonised Segmentation of Neonatal Brain MRI: A Domain Adaptation Approach. <i>Lecture Notes in Computer Science</i> , 2020, , 253-263.	1.0	2
49	Altered structural brain network topology in infants with intrauterine growth restriction. , 2012, , .		1