

Sean C L Deoni

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

7,713
citations

61984

43
h-index

54911

84
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90
all docs

90
docs citations

90
times ranked

8993
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of Delayed Cord Clamping on 12-Month Brain Myelin Content and Neurodevelopment: A Randomized Controlled Trial. <i>American Journal of Perinatology</i> , 2022, 39, 037-044.	1.4	19
2	Connecting inside out: Development of the social brain in infants and toddlers with a focus on myelination as a marker of brain maturation. <i>Child Development</i> , 2022, 93, 359-371.	3.0	9
3	Influences of Chronic Physical and Mental Health Conditions on Child and Adolescent Positive Health. <i>Academic Pediatrics</i> , 2022, 22, 1024-1032.	2.0	5
4	Remote and at-home data collection: Considerations for the NIH HEALTHy Brain and Cognitive Development (HBCD) study. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101059.	4.0	14
5	A Nutrient Formulation Affects Developmental Myelination in Term Infants: A Randomized Clinical Trial. <i>Frontiers in Nutrition</i> , 2022, 9, 823893.	3.7	15
6	Analysis of Early-Life Growth and Age at Pubertal Onset in US Children. <i>JAMA Network Open</i> , 2022, 5, e2146873.	5.9	13
7	Youth Well-being During the COVID-19 Pandemic. <i>Pediatrics</i> , 2022, 149, .	2.1	23
8	Development of a mobile low-field MRI scanner. <i>Scientific Reports</i> , 2022, 12, 5690.	3.3	25
9	Altered myelination in youth born with congenital heart disease. <i>Human Brain Mapping</i> , 2022, 43, 3545-3558.	3.6	4
10	Simultaneous high-resolution T ₂ -weighted imaging and quantitative T ₂ mapping at low magnetic field strengths using a multiple TE and multi-orientation acquisition approach. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1273-1281.	3.0	16
11	Impact of the COVID-19 Pandemic Environment on Early Child Brain and Cognitive Development. <i>Biological Psychiatry</i> , 2022, 91, S26.	1.3	3
12	Decreased myelin content of the fornix predicts poorer memory performance beyond vascular risk, hippocampal volume, and fractional anisotropy in nondemented older adults. <i>Brain Imaging and Behavior</i> , 2021, 15, 2563-2571.	2.1	3
13	Developmental changes of the central sulcus morphology in young children. <i>Brain Structure and Function</i> , 2021, 226, 1841-1853.	2.3	2
14	Family SES Is Associated with the Gut Microbiome in Infants and Children. <i>Microorganisms</i> , 2021, 9, 1608.	3.6	19
15	Modeling sparse longitudinal data in early neurodevelopment. <i>NeuroImage</i> , 2021, 237, 118079.	4.2	6
16	Emerging ethical issues raised by highly portable MRI research in remote and resource-limited international settings. <i>NeuroImage</i> , 2021, 238, 118210.	4.2	28
17	Accessible pediatric neuroimaging using a low field strength MRI scanner. <i>NeuroImage</i> , 2021, 238, 118273.	4.2	32
18	Is fetal MRI ready for neuroimaging prime time? An examination of progress and remaining areas for development. <i>Developmental Cognitive Neuroscience</i> , 2021, 51, 100999.	4.0	14

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19	Longitudinal white matter and cognitive development in pediatric carriers of the apolipoprotein ϵ 4 allele. <i>NeuroImage</i> , 2020, 222, 117243.	4.2	14
20	Machine Learning Classification Identifies Cerebellar Contributions to Early and Moderate Cognitive Decline in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 524024.	3.4	7
21	Inflammation, Cognition, and White Matter in Older Adults: An Examination by Race. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 553998.	3.4	23
22	Functional connectivity correlates of infant and early childhood cognitive development. <i>Brain Structure and Function</i> , 2020, 225, 669-681.	2.3	35
23	Sphingomyelin in Brain and Cognitive Development: Preliminary Data. <i>ENeuro</i> , 2019, 6, ENEURO.0421-18.2019.	1.9	69
24	A simple sleep EEG marker in childhood predicts brain myelin 3.5 years later. <i>NeuroImage</i> , 2019, 199, 342-350.	4.2	18
25	Longitudinal associations between white matter maturation and cognitive development across early childhood. <i>Human Brain Mapping</i> , 2019, 40, 4130-4145.	3.6	30
26	Fr�chet estimation of time-varying covariance matrices from sparse data, with application to the regional co-evolution of myelination in the developing brain. <i>Annals of Applied Statistics</i> , 2019, 13, .	1.1	9
27	Cesarean Delivery Impacts Infant Brain Development. <i>American Journal of Neuroradiology</i> , 2019, 40, 169-177.	2.4	26
28	Age-dynamic networks and functional correlation for early white matter myelination. <i>Brain Structure and Function</i> , 2019, 224, 535-551.	2.3	13
29	Prospective study of myelin water fraction changes after mild traumatic brain injury in collegiate contact sports. <i>Journal of Neurosurgery</i> , 2019, 130, 1321-1329.	1.6	14
30	Early nutrition influences developmental myelination and cognition in infants and young children. <i>NeuroImage</i> , 2018, 178, 649-659.	4.2	136
31	The development of brain white matter microstructure. <i>NeuroImage</i> , 2018, 182, 207-218.	4.2	363
32	A comparison of inhomogeneous magnetization transfer, myelin volume fraction, and diffusion tensor imaging measures in healthy children. <i>NeuroImage</i> , 2018, 182, 343-350.	4.2	57
33	Myelin water fraction changes in febrile seizures. <i>Clinical Neurology and Neurosurgery</i> , 2018, 175, 61-67.	1.4	7
34	Pilot investigation of a novel white matter imaging technique in Veterans with and without history of mild traumatic brain injury. <i>Brain Injury</i> , 2018, 32, 1255-1264.	1.2	14
35	Effects of Delayed Cord Clamping on 4-Month Ferritin Levels, Brain Myelin Content, and Neurodevelopment: A Randomized Controlled Trial. <i>Journal of Pediatrics</i> , 2018, 203, 266-272.e2.	1.8	66
36	Multi-component relaxation in clinically isolated syndrome: Lesion myelination may predict multiple sclerosis conversion. <i>NeuroImage: Clinical</i> , 2018, 20, 61-70.	2.7	11

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37	Putamen development in children 12 to 21 months old. Proceedings of SPIE, 2017, 10160, .	0.8	4
38	Quantifying cortical development in typically developing toddlers and young children, 1â€“6 years of age. NeuroImage, 2017, 153, 246-261.	4.2	123
39	Traveling Slow Oscillations During Sleep: A Marker of Brain Connectivity in Childhood. Sleep, 2017, 40, .	1.1	54
40	On the brain structure heterogeneity of autism: Parsing out acquisition site effects with significanceâ€“weighted principal component analysis. Human Brain Mapping, 2017, 38, 1208-1223.	3.6	35
41	Cranial thickness changes in early childhood. , 2017, 10572, .		1
42	Increased Sleep Depth in Developing Neural Networks: New Insights from Sleep Restriction in Children. Frontiers in Human Neuroscience, 2016, 10, 456.	2.0	43
43	Mapping an index of the myelin g-ratio in infants using magnetic resonance imaging. NeuroImage, 2016, 132, 225-237.	4.2	110
44	Examining the relationships between cortical maturation and white matter myelination throughout early childhood. NeuroImage, 2016, 125, 413-421.	4.2	55
45	Unsupervised data-driven stratification of mentalizing heterogeneity in autism. Scientific Reports, 2016, 6, 35333.	3.3	60
46	Paradoxical centrally increased diffusivity in perinatal arterial ischemic stroke. Pediatric Radiology, 2016, 46, 82-86.	2.0	0
47	White matter maturation profiles through early childhood predict general cognitive ability. Brain Structure and Function, 2016, 221, 1189-1203.	2.3	119
48	Estimating the age of healthy infants from quantitative myelin water fraction maps. Human Brain Mapping, 2015, 36, 1233-1244.	3.6	56
49	Brain and cord myelin water imaging: a progressive multiple sclerosis biomarker. NeuroImage: Clinical, 2015, 9, 574-580.	2.7	44
50	Investigating the stability of mcDESPOT myelin water fraction values derived using a stochastic region contraction approach. Magnetic Resonance in Medicine, 2015, 73, 161-169.	3.0	52
51	Myelination Is Associated with Processing Speed in Early Childhood: Preliminary Insights. PLoS ONE, 2015, 10, e0139897.	2.5	63
52	Cortical maturation and myelination in healthy toddlers and young children. NeuroImage, 2015, 115, 147-161.	4.2	178
53	Lowering the Floor on Trail Making Test Part B: Psychometric Evidence for a New Scoring Metric. Archives of Clinical Neuropsychology, 2015, 30, 643-656.	0.5	21
54	Characterizing longitudinal white matter development during early childhood. Brain Structure and Function, 2015, 220, 1921-1933.	2.3	149

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55	Nutritional influences on early white matter development: Response to Anderson and Burggren. <i>NeuroImage</i> , 2014, 100, 703-705.	4.2	5
56	White matter development and early cognition in babies and toddlers. <i>Human Brain Mapping</i> , 2014, 35, 4475-4487.	3.6	158
57	Hypomyelinating leukodystrophies: Translational research progress and prospects. <i>Annals of Neurology</i> , 2014, 76, 5-19.	5.3	132
58	Modeling healthy male white matter and myelin development: 3 through 60months of age. <i>NeuroImage</i> , 2014, 84, 742-752.	4.2	136
59	Pediatric neuroimaging using magnetic resonance imaging during non-sedated sleep. <i>Pediatric Radiology</i> , 2014, 44, 64-72.	2.0	117
60	Brain Differences in Infants at Differential Genetic Risk for Late-Onset Alzheimer Disease. <i>JAMA Neurology</i> , 2014, 71, 11.	9.0	221
61	Interactions between White Matter Asymmetry and Language during Neurodevelopment. <i>Journal of Neuroscience</i> , 2013, 33, 16170-16177.	3.6	77
62	Breastfeeding and early white matter development: A cross-sectional study. <i>NeuroImage</i> , 2013, 82, 77-86.	4.2	219
63	One component? Two components? Three? The effect of including a nonexchanging H_2O component in multicomponent driven equilibrium single pulse observation of T_1 and T_2 . <i>Magnetic Resonance in Medicine</i> , 2013, 70, 147-154.	3.0	122
64	Advances in myelin imaging with potential clinical application to pediatric imaging. <i>Neurosurgical Focus</i> , 2013, 34, E9.	2.3	65
65	Biological sex affects the neurobiology of autism. <i>Brain</i> , 2013, 136, 2799-2815.	7.6	239
66	Myelin water imaging reflects clinical variability in multiple sclerosis. <i>NeuroImage</i> , 2012, 60, 263-270.	4.2	110
67	Investigating white matter development in infancy and early childhood using myelin water fraction and relaxation time mapping. <i>NeuroImage</i> , 2012, 63, 1038-1053.	4.2	322
68	Mapping Infant Brain Myelination with Magnetic Resonance Imaging. <i>Journal of Neuroscience</i> , 2011, 31, 784-791.	3.6	416
69	Early Specialization for Voice and Emotion Processing in the Infant Brain. <i>Current Biology</i> , 2011, 21, 1220-1224.	3.9	233
70	Correction of main and transmit magnetic field (B_0 and B_1) inhomogeneity effects in multicomponent driven equilibrium single pulse observation of T_1 and T_2 . <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1021-1035.	3.0	98
71	Magnetic Resonance Relaxation and Quantitative Measurement in the Brain. <i>Methods in Molecular Biology</i> , 2011, 711, 65-108.	0.9	33
72	Quantitative Relaxometry of the Brain. <i>Topics in Magnetic Resonance Imaging</i> , 2010, 21, 101-113.	1.2	186

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73	Transverse relaxation time (T_2) mapping in the brain with off-resonance correction using phase-cycled steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 411-417.	3.4	83
74	High resolution diffusion-weighted imaging in fixed human brain using diffusion-weighted steady state free precession. <i>NeuroImage</i> , 2009, 46, 775-785.	4.2	166
75	MRI characteristics of the substantia nigra in Parkinson's disease: A combined quantitative T1 and DTI study. <i>NeuroImage</i> , 2009, 47, 435-441.	4.2	163
76	Investigating exchange and multicomponent relaxation in fully-balanced steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1421-1429.	3.4	36
77	Cleaning multicomponent T_1 and T_2 information from steady-state imaging data. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1372-1387.	3.0	413
78	Standardized structural magnetic resonance imaging in multicentre studies using quantitative T1 and T2 imaging at 1.5T. <i>NeuroImage</i> , 2008, 40, 662-671.	4.2	110
79	Segmentation of thalamic nuclei using a modified k-means clustering algorithm and high-resolution quantitative magnetic resonance imaging at 1.5 T. <i>NeuroImage</i> , 2007, 34, 117-126.	4.2	51
80	Visualization of the deep cerebellar nuclei using quantitative T1 and T2 magnetic resonance imaging at 3T. <i>NeuroImage</i> , 2007, 37, 1260-1266.	4.2	38
81	Investigating the effect of exchange and multicomponent T1 relaxation on the short repetition time spoiled steady-state signal and the DESPOT1 quantification method. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 570-578.	3.4	22
82	High-resolution T1 mapping of the brain at 3T with driven equilibrium single pulse observation of T1 with high-speed incorporation of RF field inhomogeneities (DESPOT1-HIFI). <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 1106-1111.	3.4	196
83	Synthetic T1-weighted brain image generation with incorporated coil intensity correction using DESPOT1. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1241-1248.	1.8	57
84	Visualization of thalamic nuclei on high resolution, multi-averaged T1 and T2 maps acquired at 1.5 T. <i>Human Brain Mapping</i> , 2005, 25, 353-359.	3.6	64
85	High-resolution T1 and T2 mapping of the brain in a clinically acceptable time with DESPOT1 and DESPOT2. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 237-241.	3.0	407
86	Rapid T2 estimation with phase-cycled variable nutation steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 435-439.	3.0	42
87	Rapid combined T1 and T2 mapping using gradient recalled acquisition in the steady state. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 515-526.	3.0	642