

Robert C Mckinstry

List of Publications by Year in descending order

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81
papers

8,726
citations

101543

36
h-index

60623

81
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84
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84
docs citations

84
times ranked

11100
citing authors

#	ARTICLE	IF	CITATIONS
1	A Prospective Evaluation of Infant Cerebellar-Cerebral Functional Connectivity in Relation to Behavioral Development in Autism Spectrum Disorder. <i>Biological Psychiatry Global Open Science</i> , 2023, 3, 149-161.	2.2	3
2	Socioeconomic and demographic factors in the diagnosis and treatment of Chiari malformation type I and syringomyelia. <i>Journal of Neurosurgery: Pediatrics</i> , 2022, 29, 288-297.	1.3	3
3	Subcortical Brain Development in Autism and Fragile X Syndrome: Evidence for Dynamic, Age- and Disorder-Specific Trajectories in Infancy. <i>American Journal of Psychiatry</i> , 2022, 179, 562-572.	7.2	28
4	Mild hypoxic-ischemic encephalopathy (HIE): timing and pattern of MRI brain injury. <i>Pediatric Research</i> , 2022, 92, 1731-1736.	2.3	12
5	Magnetic resonance diffusion tensor imaging of cervical microstructure in normal early and late pregnancy in vivo. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 101.e1-101.e11.	1.3	7
6	New Cohort of Patients With CEDNIK Syndrome Expands the Phenotypic and Genotypic Spectra. <i>Neurology: Genetics</i> , 2021, 7, e553.	1.9	10
7	Diagnostic shifts in autism spectrum disorder can be linked to the fuzzy nature of the diagnostic boundary: a data-driven approach. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2021, 62, 1236-1245.	5.2	6
8	Longitudinal Prediction of Infant MR Images With Multi-Contrast Perceptual Adversarial Learning. <i>Frontiers in Neuroscience</i> , 2021, 15, 653213.	2.8	4
9	MR Imaging Differences in the Circle of Willis between Healthy Children and Adults. <i>American Journal of Neuroradiology</i> , 2021, 42, 2062-2069.	2.4	2
10	A voxel-wise assessment of growth differences in infants developing autism spectrum disorder. <i>NeuroImage: Clinical</i> , 2021, 29, 102551.	2.7	8
11	Integrating neuroimaging biomarkers into the multicentre, high-dose erythropoietin for asphyxia and encephalopathy (HEAL) trial: rationale, protocol and harmonisation. <i>BMJ Open</i> , 2021, 11, e043852.	1.9	1
12	Placental pathology and neonatal brain MRI in a randomized trial of erythropoietin for hypoxic-ischemic encephalopathy. <i>Pediatric Research</i> , 2020, 87, 879-884.	2.3	27
13	Sorting nexin 27 (SNX27) variants associated with seizures, developmental delay, behavioral disturbance, and subcortical brain abnormalities. <i>Clinical Genetics</i> , 2020, 97, 437-446.	2.0	10
14	Accuracy of electromyometrial imaging of uterine contractions in clinical environment. <i>Computers in Biology and Medicine</i> , 2020, 116, 103543.	7.0	15
15	Imaging features of neonatal systemic juvenile xanthogranuloma: a case report and review of the literature. <i>Journal of International Medical Research</i> , 2020, 48, 030006052095641.	1.0	2
16	A Novel Method for High-Dimensional Anatomical Mapping of Extra-Axial Cerebrospinal Fluid: Application to the Infant Brain. <i>Frontiers in Neuroscience</i> , 2020, 14, 561556.	2.8	2
17	Effects of motion and value on apparent temperature measurement by diffusion-based thermometry MRI: eye vitreous study. <i>Medical Physics</i> , 2020, 47, 5006-5019.	3.0	1
18	Electromyometrial imaging dataset of electromyograms and isochrone maps under deformation/electrical noise contaminations. <i>Data in Brief</i> , 2020, 28, 105078.	1.0	4

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19	In vivo Assessment of Supra-Cervical Fetal Membrane by MRI 3D CISS: A Preliminary Study. <i>Frontiers in Physiology</i> , 2020, 11, 639.	2.8	1
20	A ten-year retrospective evaluation of acute flaccid myelitis at 5 pediatric centers in the United States, 2005–2014. <i>PLoS ONE</i> , 2020, 15, e0228671.	2.5	5
21	Sex differences associated with corpus callosum development in human infants: A longitudinal multimodal imaging study. <i>NeuroImage</i> , 2020, 215, 116821.	4.2	14
22	Use of fast-sequence spine MRI in pediatric patients. <i>Journal of Neurosurgery: Pediatrics</i> , 2020, 26, 676-681.	1.3	9
23	Noninvasive high-resolution electromyometrial imaging of uterine contractions in a translational sheep model. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	23
24	Hydroxyurea reduces cerebral metabolic stress in patients with sickle cell anemia. <i>Blood</i> , 2019, 133, 2436-2444.	1.4	43
25	Functional and Radiologic Assessment of the Brain after Reduced-Intensity Unrelated Donor Transplantation for Severe Sickle Cell Disease: Blood and Marrow Transplant Clinical Trials Network Study 0601. <i>Biology of Blood and Marrow Transplantation</i> , 2019, 25, e174-e178.	2.0	21
26	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 50-61.	1.5	53
27	Plasma Biomarkers of Brain Injury in Neonatal Hypoxic-Ischemic Encephalopathy. <i>Journal of Pediatrics</i> , 2018, 194, 67-75.e1.	1.8	112
28	Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. <i>Neurology</i> , 2018, 90, e1134-e1142.	1.1	81
29	Development of White Matter Circuitry in Infants With Fragile X Syndrome. <i>JAMA Psychiatry</i> , 2018, 75, 505.	11.0	35
30	Silent cerebral infarct definitions and full-scale IQ loss in children with sickle cell anemia. <i>Neurology</i> , 2018, 90, e239-e246.	1.1	15
31	Red cell exchange transfusions lower cerebral blood flow and oxygen extraction fraction in pediatric sickle cell anemia. <i>Blood</i> , 2018, 131, 1012-1021.	1.4	68
32	Children with sickle cell anemia with normal transcranial Doppler ultrasounds and without silent infarcts have a low incidence of new strokes. <i>American Journal of Hematology</i> , 2018, 93, 760-768.	4.1	8
33	Walking, Gross Motor Development, and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2018, 28, 750-763.	2.9	65
34	Intracranial vasculopathy and infarct recurrence in children with sickle cell anaemia, silent cerebral infarcts and normal transcranial Doppler velocities. <i>British Journal of Haematology</i> , 2018, 183, 324-326.	2.5	18
35	Progressive loss of brain volume in children with sickle cell anemia and silent cerebral infarct: A report from the silent cerebral infarct transfusion trial. <i>American Journal of Hematology</i> , 2018, 93, E406-E408.	4.1	12
36	Silent infarcts in sickle cell disease occur in the border zone region and are associated with low cerebral blood flow. <i>Blood</i> , 2018, 132, 1714-1723.	1.4	78

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37	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2017, 27, 1709-1720.	2.9	103
38	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017, 82, 186-193.	1.3	173
39	Early brain development in infants at high risk for autism spectrum disorder. <i>Nature</i> , 2017, 542, 348-351.	27.8	808
40	A validated clinical MRI injury scoring system in neonatal hypoxic-ischemic encephalopathy. <i>Pediatric Radiology</i> , 2017, 47, 1491-1499.	2.0	80
41	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	264
42	A multi-institutional study of brainstem gliomas in children with neurofibromatosis type 1. <i>Neurology</i> , 2017, 88, 1584-1589.	1.1	53
43	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 82, 176-185.	1.3	93
44	Neurologic Injury in Acidemic Term Infants. <i>American Journal of Perinatology</i> , 2017, 34, 668-675.	1.4	11
45	Large-Vessel Vasculopathy in Children With Sickle Cell Disease: A Magnetic Resonance Imaging Study of Infarct Topography and Focal Atrophy. <i>Pediatric Neurology</i> , 2017, 69, 49-57.	2.1	37
46	CEDNIK. <i>Child Neurology Open</i> , 2017, 4, 2329048X1773321.	1.1	16
47	Brain atrophy in paediatric sickle cell anaemia: findings from the silent infarct transfusion (<sc>SIT</sc>) trial. <i>British Journal of Haematology</i> , 2017, 177, 151-153.	2.5	17
48	De novo development of gliomas in a child with neurofibromatosis type 1, fragile X and previously normal brain magnetic resonance imaging. <i>Radiology Case Reports</i> , 2016, 11, 33-35.	0.6	1
49	Diffusion tensor imaging study of pediatric patients with congenital hydrocephalus: 1-year postsurgical outcomes. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 18, 306-319.	1.3	36
50	High-Dose Erythropoietin and Hypothermia for Hypoxic-Ischemic Encephalopathy: A Phase II Trial. <i>Pediatrics</i> , 2016, 137, .	2.1	173
51	Left hemisphere structural connectivity abnormality in pediatric hydrocephalus patients following surgery. <i>NeuroImage: Clinical</i> , 2016, 12, 631-639.	2.7	10
52	The diffusion tensor imaging (DTI) component of the NIH MRI study of normal brain development (PedsDTI). <i>NeuroImage</i> , 2016, 124, 1125-1130.	4.2	32
53	Diffusion MRI quality control and functional diffusion map results in ACRIN 6677/RTOG 0625: A multicenter, randomized, phase II trial of bevacizumab and chemotherapy in recurrent glioblastoma. <i>International Journal of Oncology</i> , 2015, 46, 1883-1892.	3.3	57
54	Accurate age classification of 6 and 12 month-old infants based on resting-state functional connectivity magnetic resonance imaging data. <i>Developmental Cognitive Neuroscience</i> , 2015, 12, 123-133.	4.0	51

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55	The Cyclic AMP Pathway Is a Sex-Specific Modifier of Glioma Risk in Type I Neurofibromatosis Patients. <i>Cancer Research</i> , 2015, 75, 16-21.	0.9	56
56	Abnormal structural connectivity in the brain networks of children with hydrocephalus. <i>NeuroImage: Clinical</i> , 2015, 8, 483-492.	2.7	21
57	The accuracy of linear indices of ventricular volume in pediatric hydrocephalus: technical note. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 15, 547-551.	1.3	42
58	CT Dose Optimization in Pediatric Radiology: A Multiyear Effort to Preserve the Benefits of Imaging While Reducing the Risks. <i>Radiographics</i> , 2015, 35, 1539-1554.	3.3	37
59	Prolonged exposure to high and variable phenylalanine levels over the lifetime predicts brain white matter integrity in children with phenylketonuria. <i>Molecular Genetics and Metabolism</i> , 2015, 114, 19-24.	1.1	39
60	Elevations in MR Measurements of Whole Brain and Regional Cerebral Blood Flow and Oxygen Extraction Fraction Suggest Cerebral Metabolic Stress in Children with Sickle Cell Disease Unaffected By Overt Stroke. <i>Blood</i> , 2015, 126, 69-69.	1.4	9
61	Parent education and biologic factors influence on cognition in sickle cell anemia. <i>American Journal of Hematology</i> , 2014, 89, 162-167.	4.1	139
62	Reproducibility of Detecting Silent Cerebral Infarcts in Pediatric Sickle Cell Anemia. <i>Journal of Child Neurology</i> , 2014, 29, 1685-1691.	1.4	15
63	Controlled Trial of Transfusions for Silent Cerebral Infarcts in Sickle Cell Anemia. <i>New England Journal of Medicine</i> , 2014, 371, 699-710.	27.0	421
64	Alterations in Cerebral Oxygen Metabolism after Traumatic Brain Injury in Children. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 48-52.	4.3	27
65	Differences in White Matter Fiber Tract Development Present From 6 to 24 Months in Infants With Autism. <i>American Journal of Psychiatry</i> , 2012, 169, 589-600.	7.2	555
66	Brain Volume Findings in 6-Month-Old Infants at High Familial Risk for Autism. <i>American Journal of Psychiatry</i> , 2012, 169, 601-608.	7.2	83
67	Silent cerebral infarcts: a review on a prevalent and progressive cause of neurologic injury in sickle cell anemia. <i>Blood</i> , 2012, 119, 4587-4596.	1.4	262
68	Magnetic resonance angiography-defined intracranial vasculopathy is associated with silent cerebral infarcts and glucose-6-phosphate dehydrogenase mutation in children with sickle cell anaemia. <i>British Journal of Haematology</i> , 2012, 159, 352-359.	2.5	65
69	Unbiased average age-appropriate atlases for pediatric studies. <i>NeuroImage</i> , 2011, 54, 313-327.	4.2	1,825
70	Silent cerebral infarcts occur despite regular blood transfusion therapy after first strokes in children with sickle cell disease. <i>Blood</i> , 2011, 117, 772-779.	1.4	225
71	Advances in pediatric diffusion tensor imaging. <i>Pediatric Radiology</i> , 2011, 41, 137-138.	2.0	6
72	DESIGN OF THE SILENT CEREBRAL INFARCT TRANSFUSION (SIT) TRIAL. <i>Pediatric Hematology and Oncology</i> , 2010, 27, 69-89.	0.8	108

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73	Acute Silent Cerebral Ischemia Occurs More Frequently Than Silent Cerebral Infarction In Children with Sickle Cell Anemia. <i>Blood</i> , 2010, 116, 268-268.	1.4	5
74	Intracranial hemorrhage progressing to porencephaly as a result of congenitally acquired cytomegalovirus infection—an illustrative report. <i>Prenatal Diagnosis</i> , 2003, 23, 797-800.	2.3	46
75	Radial Organization of Developing Preterm Human Cerebral Cortex Revealed by Non-invasive Water Diffusion Anisotropy MRI. <i>Cerebral Cortex</i> , 2002, 12, 1237-1243.	2.9	335
76	Heterogeneity of Apparent Diffusion Coefficients Within Infarcts. <i>Stroke</i> , 2001, 32, 1695-1696.	2.0	3
77	Evaluating Pediatric Brain Tumor Cellularity with Diffusion-Tensor Imaging. <i>American Journal of Roentgenology</i> , 2001, 177, 449-454.	2.2	355
78	Functional MRI studies of word-stem completion: Reliability across laboratories and comparison to blood flow imaging with PET. <i>Human Brain Mapping</i> , 1998, 6, 203-215.	3.6	116
79	Anatomic Localization and Quantitative Analysis of Gradient Refocused Echo-Planar fMRI Susceptibility Artifacts. <i>NeuroImage</i> , 1997, 6, 156-167.	4.2	624
80	Encoding of anisotropic diffusion with tetrahedral gradients: A general mathematical diffusion formalism and experimental results. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 399-412.	3.0	276
81	Diffusion MRI: Precision, accuracy and flow effects. <i>NMR in Biomedicine</i> , 1995, 8, 307-332.	2.8	208