

Robert C Mckinstry

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

8,726
citations

101543

36
h-index

60623

81
g-index

84
all docs

84
docs citations

84
times ranked

11100
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Unbiased average age-appropriate atlases for pediatric studies. <i>NeuroImage</i> , 2011, 54, 313-327. | 4.2 | 1,825 |
| 2 | Early brain development in infants at high risk for autism spectrum disorder. <i>Nature</i> , 2017, 542, 348-351. | 27.8 | 808 |
| 3 | Anatomic Localization and Quantitative Analysis of Gradient Refocused Echo-Planar fMRI Susceptibility Artifacts. <i>NeuroImage</i> , 1997, 6, 156-167. | 4.2 | 624 |
| 4 | 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 |
| 5 | 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 |
| 6 | Evaluating Pediatric Brain Tumor Cellularity with Diffusion-Tensor Imaging. <i>American Journal of Roentgenology</i> , 2001, 177, 449-454. | 2.2 | 355 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Diffusion MRI: Precision, accuracy and flow effects. <i>NMR in Biomedicine</i> , 1995, 8, 307-332. | 2.8 | 208 |
| 13 | High-Dose Erythropoietin and Hypothermia for Hypoxic-Ischemic Encephalopathy: A Phase II Trial. <i>Pediatrics</i> , 2016, 137, . | 2.1 | 173 |
| 14 | Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017, 82, 186-193. | 1.3 | 173 |
| 15 | 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 |
| 16 | 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 |
| 17 | Plasma Biomarkers of Brain Injury in Neonatal Hypoxic-Ischemic Encephalopathy. <i>Journal of Pediatrics</i> , 2018, 194, 67-75.e1. | 1.8 | 112 |
| 18 | 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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|----|--|-----|-----------|
| 19 | Joint Attention and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2017, 27, 1709-1720. | 2.9 | 103 |
| 20 | The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 82, 176-185. | 1.3 | 93 |
| 21 | 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 |
| 22 | Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. <i>Neurology</i> , 2018, 90, e1134-e1142. | 1.1 | 81 |
| 23 | A validated clinical MRI injury scoring system in neonatal hypoxic-ischemic encephalopathy. <i>Pediatric Radiology</i> , 2017, 47, 1491-1499. | 2.0 | 80 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Walking, Gross Motor Development, and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2018, 28, 750-763. | 2.9 | 65 |
| 28 | 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 |
| 29 | 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 |
| 30 | A multi-institutional study of brainstem gliomas in children with neurofibromatosis type 1. <i>Neurology</i> , 2017, 88, 1584-1589. | 1.1 | 53 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Hydroxyurea reduces cerebral metabolic stress in patients with sickle cell anemia. <i>Blood</i> , 2019, 133, 2436-2444. | 1.4 | 43 |
| 35 | 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 |
| 36 | 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 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | Development of White Matter Circuitry in Infants With Fragile X Syndrome. <i>JAMA Psychiatry</i> , 2018, 75, 505. | 11.0 | 35 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | Noninvasive high-resolution electromyometrial imaging of uterine contractions in a translational sheep model. <i>Science Translational Medicine</i> , 2019, 11, . | 12.4 | 23 |
| 46 | Abnormal structural connectivity in the brain networks of children with hydrocephalus. <i>NeuroImage: Clinical</i> , 2015, 8, 483-492. | 2.7 | 21 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | CEDNIK. <i>Child Neurology Open</i> , 2017, 4, 2329048X1773321. | 1.1 | 16 |
| 51 | Reproducibility of Detecting Silent Cerebral Infarcts in Pediatric Sickle Cell Anemia. <i>Journal of Child Neurology</i> , 2014, 29, 1685-1691. | 1.4 | 15 |
| 52 | 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 |
| 53 | Accuracy of electromyometrial imaging of uterine contractions in clinical environment. <i>Computers in Biology and Medicine</i> , 2020, 116, 103543. | 7.0 | 15 |
| 54 | Sex differences associated with corpus callosum development in human infants: A longitudinal multimodal imaging study. <i>NeuroImage</i> , 2020, 215, 116821. | 4.2 | 14 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Mild hypoxic-ischemic encephalopathy (HIE): timing and pattern of MRI brain injury. <i>Pediatric Research</i> , 2022, 92, 1731-1736. | 2.3 | 12 |
| 57 | Neurologic Injury in Academic Term Infants. <i>American Journal of Perinatology</i> , 2017, 34, 668-675. | 1.4 | 11 |
| 58 | Left hemisphere structural connectivity abnormality in pediatric hydrocephalus patients following surgery. <i>NeuroImage: Clinical</i> , 2016, 12, 631-639. | 2.7 | 10 |
| 59 | Sorting nexin 27 (<i>SNX27</i>) variants associated with seizures, developmental delay, behavioral disturbance, and subcortical brain abnormalities. <i>Clinical Genetics</i> , 2020, 97, 437-446. | 2.0 | 10 |
| 60 | New Cohort of Patients With CEDNIK Syndrome Expands the Phenotypic and Genotypic Spectra. <i>Neurology: Genetics</i> , 2021, 7, e553. | 1.9 | 10 |
| 61 | 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 |
| 62 | Use of fast-sequence spine MRI in pediatric patients. <i>Journal of Neurosurgery: Pediatrics</i> , 2020, 26, 676-681. | 1.3 | 9 |
| 63 | 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 |
| 64 | A voxel-wise assessment of growth differences in infants developing autism spectrum disorder. <i>NeuroImage: Clinical</i> , 2021, 29, 102551. | 2.7 | 8 |
| 65 | 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 |
| 66 | Advances in pediatric diffusion tensor imaging. <i>Pediatric Radiology</i> , 2011, 41, 137-138. | 2.0 | 6 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Electromyometrial imaging dataset of electromyograms and isochrone maps under deformation/electrical noise contaminations. <i>Data in Brief</i> , 2020, 28, 105078. | 1.0 | 4 |
| 71 | Longitudinal Prediction of Infant MR Images With Multi-Contrast Perceptual Adversarial Learning. <i>Frontiers in Neuroscience</i> , 2021, 15, 653213. | 2.8 | 4 |
| 72 | Heterogeneity of Apparent Diffusion Coefficients Within Infarcts. <i>Stroke</i> , 2001, 32, 1695-1696. | 2.0 | 3 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Effects of motion and b ⁰ value on apparent temperature measurement by diffusion-based thermometry MRI: eye vitreous study. <i>Medical Physics</i> , 2020, 47, 5006-5019. | 3.0 | 1 |
| 80 | 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 |
| 81 | 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 |