# Stefan Bluml

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 116 papers | 4,443 citations | 101543 36 h-index | 114465 63 g-index |
| 122 all docs | 122 docs citations | 122 times ranked | 5378 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effects of Tissue Temperature and Injury on ADC during Therapeutic Hypothermia in Newborn Hypoxic-Ischemic Encephalopathy. American Journal of Neuroradiology, 2022, , . | 2.4 | 1 |
| 2 | Clinical 1H MRS in childhood neurometabolic diseasesâ€"part 1: technique and age-related normal spectra. Neuroradiology, 2022, 64, 1101-1110. | 2.2 | 6 |
| 3 | Clinical 1H MRS in childhood neurometabolic diseases â€" part 2: MRS signatures. Neuroradiology, 2022, , 1. | 2.2 | 3 |
| 4 | Proton MR Spectroscopy of Pediatric Brain Disorders. Diagnostics, 2022, 12, 1462. | 2.6 | 3 |
| 5 | Fetal neurodevelopmental recovery in donors after laser surgery for twinâ€twin transfusion syndrome. Prenatal Diagnosis, 2021, 41, 190-199. | 2.3 | 3 |
| 6 | Algorithms for segmenting cerebral time-of-flight magnetic resonance angiograms from volunteers and anemic patients. Journal of Medical Imaging, 2021, 8, 024005. | 1.5 | 0 |
| 7 | Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. Science Translational Medicine, 2021, 13, eabc0497. | 12.4 | 29 |
| 8 | The First Examination of Diagnostic Performance of Automated Measurement of the Callosal Angle in 1856 Elderly Patients and Volunteers Indicates That 12.4% of Exams Met the Criteria for Possible Normal Pressure Hydrocephalus. American Journal of Neuroradiology, 2021, 42, 1942-1948. | 2.4 | 9 |
| 9 | Proton and Multinuclear Spectroscopy of the Pediatric Brain. Magnetic Resonance Imaging Clinics of North America, 2021, 29, 543-555. | 1.1 | 3 |
| 10 | Integrating neuroimaging biomarkers into the multicentre, high-dose erythropoietin for asphyxia and encephalopathy (HEAL) trial: rationale, protocol and harmonisation. BMJ Open, 2021, 11, e043852. | 1.9 | 1 |
| 11 | Brain MR imaging and spectroscopy for outcome prognostication after pediatric cardiac arrest. Resuscitation, 2020, 157, 185-194. | 3.0 | 17 |
| 12 | Integrated Metabolic and Epigenomic Reprograming by H3K27M Mutations in Diffuse Intrinsic Pontine Gliomas. Cancer Cell, 2020, 38, 334-349.e9. | 16.8 | 87 |
| 13 | An InÂVivo Assessment of Regional Brain Temperature during Whole-Body Cooling for Neonatal Encephalopathy. Journal of Pediatrics, 2020, 220, 73-79.e3. | 1.8 | 3 |
| 14 | The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. Natural Product Reports, 2019, 36, 35-107. | 10.3 | 92 |
| 15 | Pediatric Atypical Teratoid/Rhabdoid Tumors of the Brain: Identification of Metabolic Subgroups Using In Vivo <sup>1</sup>H-MR Spectroscopy. American Journal of Neuroradiology, 2019, 40, 872-877. | 2.4 | 6 |
| 16 | Rare Pediatric Invasive Gliofibroma Has BRAFV600E Mutation and Transiently Responds to Targeted Therapy Before Progressive Clonal Evolution. JCO Precision Oncology, 2019, 3, 1-10. | 3.0 | 2 |
| 17 | Association between Subcortical Morphology and Cerebral White Matter Energy Metabolism in Neonates with Congenital Heart Disease. Scientific Reports, 2018, 8, 14057. | 3.3 | 18 |
| 18 | Structural network topology correlates of microstructural brain dysmaturation in term infants with congenital heart disease. Human Brain Mapping, 2018, 39, 4593-4610. | 3.6 | 28 |

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|---|---|---|---|
| 19 | Cerebral Lactate Concentration in Neonatal Hypoxic-Ischemic Encephalopathy: In Relation to Time, Characteristic of Injury, and Serum Lactate Concentration. Frontiers in Neurology, 2018, 9, 293. | 2.4 | 32 |
| 20 | Noninvasive estimation of fetal lung maturity with magnetic resonance spectroscopy. American Journal of Obstetrics and Gynecology, 2018, 219, 209-210. | 1.3 | 3 |
| 21 | A new MRI tag-based method to non-invasively visualize cerebrospinal fluid flow. Child's Nervous System, 2018, 34, 1677-1682. | 1.1 | 5 |
| 22 | Clinical Factors Associated with Cerebral Metabolism in Term Neonates with Congenital Heart Disease. Journal of Pediatrics, 2017, 183, 67-73.e1. | 1.8 | 16 |
| 23 | Extending PACS functionality: towards facilitating the conversion of clinical necessities into research-derived applications. , 2017, 10160, . | | 4 |
| 24 | Measuring Stroke Volume: Impedance Cardiography vs Phase-Contrast Magnetic Resonance Imaging. American Journal of Critical Care, 2017, 26, 408-415. | 1.6 | 15 |
| 25 | MRS of pilocytic astrocytoma: The peak at 2â€‰ppm may not be NAA. Magnetic Resonance in Medicine, 2017, 78, 452-456. | 3.0 | 5 |
| 26 | Pineal Region Masses in Pediatric Patients. Neuroimaging Clinics of North America, 2017, 27, 85-97. | 1.0 | 37 |
| 27 | Neuroimaging of Peptide-based Vaccine Therapy in Pediatric Brain Tumors. Neuroimaging Clinics of North America, 2017, 27, 155-166. | 1.0 | 8 |
| 28 | The Impact of Venoarterial and Venovenous Extracorporeal Membrane Oxygenation on Cerebral Metabolism in the Newborn Brain. PLoS ONE, 2016, 11, e0168578. | 2.5 | 3 |
| 29 | AT-02MR SPECTROSCOPY AND METABOLIC SUBTYPES OF ATYPICAL TERATOID RHABDOID TUMORS IN CHILDREN. Neuro-Oncology, 2016, 18, iii1.1-iii1. | 1.2 | 0 |
| 30 | Assessment of diffusion tensor image quality across sites and vendors using the American College of Radiology head phantom. Journal of Applied Clinical Medical Physics, 2016, 17, 442-451. | 1.9 | 5 |
| 31 | Changes in Imaging and Cognition in Juvenile Rats After Whole-Brain Irradiation. International Journal of Radiation Oncology Biology Physics, 2016, 96, 470-478. | 0.8 | 13 |
| 32 | The effects of therapeutic hypothermia on cerebral metabolism in neonates with hypoxic-ischemic encephalopathy: An inÂvivo <sup>1</sup>H-MR spectroscopy study. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1075-1086. | 4.3 | 52 |
| 33 | Molecular subgroups of medulloblastoma identification using noninvasive magnetic resonance spectroscopy. Neuro-Oncology, 2016, 18, 126-131. | 1.2 | 69 |
| 34 | Citrate concentrations increase with hypoperfusion in pediatric diffuse intrinsic pontine glioma. Journal of Neuro-Oncology, 2015, 122, 383-389. | 2.9 | 14 |
| 35 | Abnormal Development of Thalamic Microstructure in Premature Neonates with Congenital Heart Disease. Pediatric Cardiology, 2015, 36, 960-969. | 1.3 | 14 |
| 36 | Combined MRI and MRS improves pre-therapeutic diagnoses of pediatric brain tumors over MRI alone. Neuroradiology, 2015, 57, 951-956. | 2.2 | 21 |

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|---|---|---|---|
| 37 | Reduced thalamic volume in preterm infants is associated with abnormal white matter metabolism independent of injury. Neuroradiology, 2015, 57, 515-525. | 2.2 | 12 |
| 38 | Developmental synergy between thalamic structure and interhemispheric connectivity in the visual system of preterm infants. NeuroImage: Clinical, 2015, 8, 462-472. | 2.7 | 11 |
| 39 | Metabolic Maturation of White Matter Is Altered in Preterm Infants. PLoS ONE, 2014, 9, e85829. | 2.5 | 39 |
| 40 | Characterization of Microstructural Injury: A Novel Approach in Infant Abusive Head Traumaâ€"Initial Experience. Journal of Neurotrauma, 2014, 31, 1632-1638. | 3.4 | 16 |
| 41 | Early metabolic development of posteromedial cortex and thalamus in humans analyzed via in vivo quantitative magnetic resonance spectroscopy. Journal of Comparative Neurology, 2014, 522, 3717-3732. | 1.6 | 20 |
| 42 | Brain Temperature in Neonates with Hypoxic-Ischemic Encephalopathy during Therapeutic Hypothermia. Journal of Pediatrics, 2014, 165, 1129-1134. | 1.8 | 25 |
| 43 | Equations to describe brain size across the continuum of human lifespan. Brain Structure and Function, 2014, 219, 141-150. | 2.3 | 15 |
| 44 | Maintenance of whole-body therapeutic hypothermia during patient transport and magnetic resonance imaging. Pediatric Radiology, 2014, 44, 613-617. | 2.0 | 22 |
| 45 | Magnetic resonance spectroscopy markers of axons and astrogliosis in relation to specific features of white matter injury in preterm infants. Neuroradiology, 2014, 56, 771-779. | 2.2 | 21 |
| 46 | Repeatability of Chemical-Shift-Encoded Water-Fat MRI and Diffusion-Tensor Imaging in Lower Extremity Muscles in Children. American Journal of Roentgenology, 2014, 202, W567-W573. | 2.2 | 14 |
| 47 | Multinuclear MRS in Children. , 2013, , 295-303. | | 0 |
| 48 | Treatment of Children with Diffuse Intrinsic Pontine Gliomas with Chemoradiotherapy Followed by a Combination of Temozolomide, Irinotecan, and Bevacizumab. Pediatric Hematology and Oncology, 2013, 30, 623-632. | 0.8 | 28 |
| 49 | Metabolic Maturation of the Human Brain From Birth Through Adolescence: Insights From In Vivo Magnetic Resonance Spectroscopy. Cerebral Cortex, 2013, 23, 2944-2955. | 2.9 | 131 |
| 50 | Abnormal Cerebral Microstructure in Premature Neonates with Congenital Heart Disease. American Journal of Neuroradiology, 2013, 34, 2026-2033. | 2.4 | 31 |
| 51 | Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. Seminars in Neurology, 2013, 32, 557-558. | 1.4 | 1 |
| 52 | Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. Seminars in Neurology, 2013, 32, 432-453. | 1.4 | 23 |
| 53 | Magnetic Resonance Spectroscopy: Basics. , 2013, , 11-23. | | 12 |
| 54 | Metabolites of Proton Magnetic Resonance Spectroscopy and Normal Age-Dependent Changes. , 2013, , 25-38. | | 4 |

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|---|---|---|---|
| 55 | Altered Glutamatergic Metabolism Associated with Punctate White Matter Lesions in Preterm Infants. PLoS ONE, 2013, 8, e56880. | 2.5 | 29 |
| 56 | Diffuse Intrinsic Pontine Gliomas. , 2013, , 61-66. | | 0 |
| 57 | Traumatic Brain Injury and Concussion. , 2013, , 67-75. | | 1 |
| 58 | Neuroimaging biomarkers of preterm brain injury: toward developing the preterm connectome. Pediatric Radiology, 2012, 42, 33-61. | 2.0 | 49 |
| 59 | Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-Related Brain Injury. , 2012, , 187-198. | | 0 |
| 60 | Treatment of children with recurrent high grade gliomas with a bevacizumab containing regimen. Journal of Neuro-Oncology, 2011, 103, 673-680. | 2.9 | 44 |
| 61 | Bone Marrow Fat Is Inversely Related to Cortical Bone in Young and Old Subjects. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 782-786. | 3.6 | 138 |
| 62 | Elevated citrate in pediatric astrocytomas with malignant progression. Neuro-Oncology, 2011, 13, 1107-1117. | 1.2 | 31 |
| 63 | Magnetic resonance spectroscopy in pediatric neuroradiology: clinical and research applications. Pediatric Radiology, 2010, 40, 3-30. | 2.0 | 98 |
| 64 | PET imaging in pediatric neuroradiology: current and future applications. Pediatric Radiology, 2010, 40, 82-96. | 2.0 | 38 |
| 65 | Contralateral hemimicrencephaly in neonatal hemimegalencephaly. Pediatric Radiology, 2010, 40, 1826-1830. | 2.0 | 10 |
| 66 | Basic Principles and Concepts Underlying Recent Advances in Magnetic Resonance Imaging of the Developing Brain. Seminars in Perinatology, 2010, 34, 3-19. | 2.5 | 32 |
| 67 | Neuroimaging of Pediatric Brain Tumors: From Basic to Advanced Magnetic Resonance Imaging (MRI). Journal of Child Neurology, 2009, 24, 1343-1365. | 1.4 | 102 |
| 68 | Metabolism of Orthotopic Mouse Brain Tumor Models. Molecular Imaging, 2009, 8, 7290.2009.00019. | 1.4 | 10 |
| 69 | Metabolism of orthotopic mouse brain tumor models. Molecular Imaging, 2009, 8, 199-208. | 1.4 | 8 |
| 70 | Direct determination of the N-acetyl-l-aspartate synthesis rate in the human brain by 13Câ€ƒMRS and [1-13C]glucose infusion. Journal of Neurochemistry, 2008, 77, 347-350. | 3.9 | 5 |
| 71 | Metabolism of diffuse intrinsic brainstem gliomas in children. Neuro-Oncology, 2008, 10, 32-44. | 1.2 | 49 |
| 72 | Three-Point Technique of Fat Quantification of Muscle Tissue as a Marker of Disease Progression in Duchenne Muscular Dystrophy: Preliminary Study. American Journal of Roentgenology, 2008, 190, W8-W12. | 2.2 | 181 |

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|---|---|---|---|
| 73 | Visualization of Cerebrospinal Fluid Movement with Spin Labeling at MR Imaging: Preliminary Results in Normal and Pathophysiologic Conditions. Radiology, 2008, 249, 644-652. | 7.3 | 163 |
| 74 | Advances in Magnetic Resonance Imaging of the Injured Neonatal Brain. Pediatric Annals, 2008, 37, 395-402. | 0.8 | 3 |
| 75 | Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-related Brain Injury. , 2008, , 133-146. | | 0 |
| 76 | Proton Magnetic Resonance Spectroscopy of Hydrocephalic Infants. Pediatric Neurosurgery, 2007, 43, 461-467. | 0.7 | 8 |
| 77 | Advances in Magnetic Resonance Neuroimaging Techniques in the Evaluation of Neonatal Encephalopathy. Topics in Magnetic Resonance Imaging, 2007, 18, 3-29. | 1.2 | 36 |
| 78 | Magnetic Resonance Spectroscopy of Traumatic Brain Injury and Concussion. , 2006, , 197-220. | | 4 |
| 79 | Relevant information retrieval and fusion of anatomic, physiologic, and metabolic neuroimaging. , 2005, , . | | 0 |
| 80 | Proton-decoupled31P MRS in untreated pediatric brain tumors. Magnetic Resonance in Medicine, 2005, 53, 22-29. | 3.0 | 63 |
| 81 | Differentiation of choroid plexus tumors by advanced magnetic resonance spectroscopy. Neurosurgical Focus, 2005, 18, 1-4. | 2.3 | 22 |
| 82 | Untreated Pediatric Primitive Neuroectodermal Tumor in Vivo: Quantitation of Taurine with MR Spectroscopy. Radiology, 2005, 236, 1020-1025. | 7.3 | 104 |
| 83 | MR Imaging of Newborns by Using an MR-compatible Incubator with Integrated Radiofrequency Coils: Initial Experience. Radiology, 2004, 231, 594-601. | 7.3 | 70 |
| 84 | Neurodevelopment assessment of newborns with combined fMRI and DTI. , 2004, , . | | 0 |
| 85 | In vivo characterization of fatty acids in human adipose tissue using natural abundance1H decoupled13C MRS at 1.5 T: clinical applications to dietary therapy. NMR in Biomedicine, 2003, 16, 160-167. | 2.8 | 40 |
| 86 | Functional MRI in neonates using neonatal head coil and MR compatible incubator. NeuroImage, 2003, 20, 683-692. | 4.2 | 76 |
| 87 | Analysis of brain fMRI time-series using HRF knowledge-based correlation classifier on unsupervised self-organizing neural network map. , 2003, 5031, 350. | | 0 |
| 88 | [1-13C] glucose MRS in chronic hepatic encephalopathy in man. Magnetic Resonance in Medicine, 2001, 45, 981-993. | 3.0 | 53 |
| 89 | Alternative 1-13C glucose infusion protocols for clinical13C MRS examinations of the brain. Magnetic Resonance in Medicine, 2001, 46, 39-48. | 3.0 | 35 |
| 90 | 1-13C glucose magnetic resonance spectroscopy of pediatric and adult brain disorders. NMR in Biomedicine, 2001, 14, 19-32. | 2.8 | 74 |

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|---|---|---|---|
| 91 | Magnetic resonance spectroscopy of the human brain. The Anatomical Record, 2001, 265, 54-84. | 1.8 | 369 |
| 92 | Direct determination of the N-acetyl-l-aspartate synthesis rate in the human brain by 13C MRS and [1-13C]glucose infusion. Journal of Neurochemistry, 2001, 77, 347-350. | 3.9 | 139 |
| 93 | Novel Peak Assignments of in Vivo13C MRS in Human Brain at 1.5 T. Journal of Magnetic Resonance, 2000, 143, 292-298. | 2.1 | 29 |
| 94 | Efficacy of proton magnetic resonance spectroscopy in clinical decision making for patients with suspected malignant brain tumors. Journal of Neuro-Oncology, 1999, 45, 69-81. | 2.9 | 71 |
| 95 | Identification of cerebral acetone by1H-MRS in patients with epilepsy controlled by ketogenic diet. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1999, 8, 33-42. | 2.0 | 36 |
| 96 | In VivoQuantitation of Cerebral Metabolite Concentrations Using Natural Abundance13C MRS at 1.5 T. Journal of Magnetic Resonance, 1999, 136, 219-225. | 2.1 | 68 |
| 97 | Developmental changes in choline- and ethanolamine-containing compounds measured with proton-decoupled31P MRS in in vivo human brain. Magnetic Resonance in Medicine, 1999, 42, 643-654. | 3.0 | 115 |
| 98 | In vivo magnetic resonance spectroscopy of human fetal neural transplants. NMR in Biomedicine, 1999, 12, 221-236. | 2.8 | 49 |
| 99 | Activation of Neurotransplants in Humans. Experimental Neurology, 1999, 158, 121-125. | 4.1 | 20 |
| 100 | Magnetic Resonance Spectroscopy of the Human Brain. , 1999, , 1099-1148. | | 2 |
| 101 | Quantitative Proton-Decoupled 31P MRS of the Schizophrenic Brain In Vivo. Journal of Computer Assisted Tomography, 1999, 23, 272-275. | 0.9 | 46 |
| 102 | Lack of effect of oral choline supplement on the concentrations of choline metabolites in human brain. Magnetic Resonance in Medicine, 1998, 39, 1005-1010. | 3.0 | 33 |
| 103 | <sup>1</sup>H MRS in acute traumatic brain injury. Journal of Magnetic Resonance Imaging, 1998, 8, 829-840. | 3.4 | 207 |
| 104 | Protonâ€Ðecoupled <sup>31</sup>P Magnetic Resonance Spectroscopy Reveals Osmotic and Metabolic Disturbances in Human Hepatic Encephalopathy. Journal of Neurochemistry, 1998, 71, 1564-1576. | 3.9 | 62 |
| 105 | In vivo magnetic resonance spectroscopy of human brain: The biophysical basis of dementia. Biophysical Chemistry, 1997, 68, 161-172. | 2.8 | 80 |
| 106 | Differentiation between cortical atrophy and hydrocephalus using <sup>1</sup>H MRS. Magnetic Resonance in Medicine, 1997, 37, 395-403. | 3.0 | 30 |
| 107 | Magnetic Resonance Spectroscopy in the Study of Hyperammonemia and Hepatic Encephalopathy. Advances in Experimental Medicine and Biology, 1997, 420, 185-194. | 1.6 | 8 |
| 108 | Proton Magnetic Resonance Spectroscopy: The New Gold Standard for Diagnosis of Clinical and Subclinical Hepatic Encephalopathy?. Digestive Diseases, 1996, 14, 30-39. | 1.9 | 80 |

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|---|---|---|---|
| 109 | A comparison of magnetization prepared 3D gradientecho (MP-RAGE) sequences for imaging of intracranial lesions. Magnetic Resonance Imaging, 1996, 14, 329-335. | 1.8 | 21 |
| 110 | Rapid automatic brain volumetry on the basis of multispectral 3D MR imaging data on personal computers. Computerized Medical Imaging and Graphics, 1995, 19, 185-205. | 5.8 | 25 |
| 111 | Radiosurgical treatment planning of brain metastases based on a fast, three-dimensional MR imaging technique. Magnetic Resonance Imaging, 1994, 12, 811-819. | 1.8 | 30 |
| 112 | 3D MPRAGE evaluation of lesions in the posterior cranial fossa. Magnetic Resonance Imaging, 1994, 12, 553-558. | 1.8 | 27 |
| 113 | Improved target volume definition for precision radiotherapy planning of meningiomas by correlation of CT and dynamic, Gd-DTPA-enhanced FLASH MR imaging. Radiotherapy and Oncology, 1994, 33, 73-79. | 0.6 | 11 |
| 114 | Spin-lattice relaxation time measurement by means of a TurboFLASH technique. Magnetic Resonance in Medicine, 1993, 30, 289-295. | 3.0 | 135 |
| 115 | IX. MR tissue characterization of intracranial tumors by means of texture analysis. Magnetic Resonance Imaging, 1993, 11, 889-896. | 1.8 | 115 |
| 116 | Physiological MR of pediatric brain tumors. , 0, , 766-783. | | 0 |