

Stefan Bluml

List of Publications by Year in descending order

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116
papers

4,443
citations

116194

36
h-index

129628

63
g-index

122
all docs

122
docs citations

122
times ranked

5907
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Tissue Temperature and Injury on ADC during Therapeutic Hypothermia in Newborn Hypoxic-Ischemic Encephalopathy. <i>American Journal of Neuroradiology</i> , 2022, , .	1.2	1
2	Clinical 1H MRS in childhood neurometabolic diseasesâ€™ part 1: technique and age-related normal spectra. <i>Neuroradiology</i> , 2022, 64, 1101-1110.	1.1	6
3	Clinical 1H MRS in childhood neurometabolic diseases â€™ part 2: MRS signatures. <i>Neuroradiology</i> , 2022, , 1.	1.1	3
4	Proton MR Spectroscopy of Pediatric Brain Disorders. <i>Diagnostics</i> , 2022, 12, 1462.	1.3	3
5	Fetal neurodevelopmental recovery in donors after laser surgery for twinâ€™twin transfusion syndrome. <i>Prenatal Diagnosis</i> , 2021, 41, 190-199.	1.1	3
6	Algorithms for segmenting cerebral time-of-flight magnetic resonance angiograms from volunteers and anemic patients. <i>Journal of Medical Imaging</i> , 2021, 8, 024005.	0.8	0
7	Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. <i>Science Translational Medicine</i> , 2021, 13, eabc0497.	5.8	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. <i>American Journal of Neuroradiology</i> , 2021, 42, 1942-1948.	1.2	9
9	Proton and Multinuclear Spectroscopy of the Pediatric Brain. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021, 29, 543-555.	0.6	3
10	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.	0.8	1
11	Brain MR imaging and spectroscopy for outcome prognostication after pediatric cardiac arrest. <i>Resuscitation</i> , 2020, 157, 185-194.	1.3	17
12	Integrated Metabolic and Epigenomic Reprograming by H3K27M Mutations in Diffuse Intrinsic Pontine Gliomas. <i>Cancer Cell</i> , 2020, 38, 334-349.e9.	7.7	87
13	An InÂVivo Assessment of Regional Brain Temperature during Whole-Body Cooling for Neonatal Encephalopathy. <i>Journal of Pediatrics</i> , 2020, 220, 73-79.e3.	0.9	3
14	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019, 36, 35-107.	5.2	92
15	Pediatric Atypical Teratoid/Rhabdoid Tumors of the Brain: Identification of Metabolic Subgroups Using In Vivo ¹ H-MR Spectroscopy. <i>American Journal of Neuroradiology</i> , 2019, 40, 872-877.	1.2	6
16	Rare Pediatric Invasive Gliofibroma Has BRAFV600E Mutation and Transiently Responds to Targeted Therapy Before Progressive Clonal Evolution. <i>JCO Precision Oncology</i> , 2019, 3, 1-10.	1.5	2
17	Association between Subcortical Morphology and Cerebral White Matter Energy Metabolism in Neonates with Congenital Heart Disease. <i>Scientific Reports</i> , 2018, 8, 14057.	1.6	18
18	Structural network topology correlates of microstructural brain dysmaturation in term infants with congenital heart disease. <i>Human Brain Mapping</i> , 2018, 39, 4593-4610.	1.9	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. <i>Frontiers in Neurology</i> , 2018, 9, 293.	1.1	32
20	Noninvasive estimation of fetal lung maturity with magnetic resonance spectroscopy. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 219, 209-210.	0.7	3
21	A new MRI tag-based method to non-invasively visualize cerebrospinal fluid flow. <i>Child's Nervous System</i> , 2018, 34, 1677-1682.	0.6	5
22	Clinical Factors Associated with Cerebral Metabolism in Term Neonates with Congenital Heart Disease. <i>Journal of Pediatrics</i> , 2017, 183, 67-73.e1.	0.9	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. <i>American Journal of Critical Care</i> , 2017, 26, 408-415.	0.8	15
25	MRS of pilocytic astrocytoma: The peak at 2 ppm may not be NAA. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 452-456.	1.9	5
26	Pineal Region Masses in Pediatric Patients. <i>Neuroimaging Clinics of North America</i> , 2017, 27, 85-97.	0.5	37
27	Neuroimaging of Peptide-based Vaccine Therapy in Pediatric Brain Tumors. <i>Neuroimaging Clinics of North America</i> , 2017, 27, 155-166.	0.5	8
28	The Impact of Venoarterial and Venovenous Extracorporeal Membrane Oxygenation on Cerebral Metabolism in the Newborn Brain. <i>PLoS ONE</i> , 2016, 11, e0168578.	1.1	3
29	AT-02MR SPECTROSCOPY AND METABOLIC SUBTYPES OF ATYPICAL TERATOID RHABDOID TUMORS IN CHILDREN. <i>Neuro-Oncology</i> , 2016, 18, iii1.1-iii1.	0.6	0
30	Assessment of diffusion tensor image quality across sites and vendors using the American College of Radiology head phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 442-451.	0.8	5
31	Changes in Imaging and Cognition in Juvenile Rats After Whole-Brain Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 470-478.	0.4	13
32	The effects of therapeutic hypothermia on cerebral metabolism in neonates with hypoxic-ischemic encephalopathy: An in vivo ¹ H-MR spectroscopy study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1075-1086.	2.4	52
33	Molecular subgroups of medulloblastoma identification using noninvasive magnetic resonance spectroscopy. <i>Neuro-Oncology</i> , 2016, 18, 126-131.	0.6	69
34	Citrate concentrations increase with hypoperfusion in pediatric diffuse intrinsic pontine glioma. <i>Journal of Neuro-Oncology</i> , 2015, 122, 383-389.	1.4	14
35	Abnormal Development of Thalamic Microstructure in Premature Neonates with Congenital Heart Disease. <i>Pediatric Cardiology</i> , 2015, 36, 960-969.	0.6	14
36	Combined MRI and MRS improves pre-therapeutic diagnoses of pediatric brain tumors over MRI alone. <i>Neuroradiology</i> , 2015, 57, 951-956.	1.1	21

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37	Reduced thalamic volume in preterm infants is associated with abnormal white matter metabolism independent of injury. <i>Neuroradiology</i> , 2015, 57, 515-525.	1.1	12
38	Developmental synergy between thalamic structure and interhemispheric connectivity in the visual system of preterm infants. <i>NeuroImage: Clinical</i> , 2015, 8, 462-472.	1.4	11
39	Metabolic Maturation of White Matter Is Altered in Preterm Infants. <i>PLoS ONE</i> , 2014, 9, e85829.	1.1	39
40	Characterization of Microstructural Injury: A Novel Approach in Infant Abusive Head Trauma—Initial Experience. <i>Journal of Neurotrauma</i> , 2014, 31, 1632-1638.	1.7	16
41	Early metabolic development of posteromedial cortex and thalamus in humans analyzed via in vivo quantitative magnetic resonance spectroscopy. <i>Journal of Comparative Neurology</i> , 2014, 522, 3717-3732.	0.9	20
42	Brain Temperature in Neonates with Hypoxic-Ischemic Encephalopathy during Therapeutic Hypothermia. <i>Journal of Pediatrics</i> , 2014, 165, 1129-1134.	0.9	25
43	Equations to describe brain size across the continuum of human lifespan. <i>Brain Structure and Function</i> , 2014, 219, 141-150.	1.2	15
44	Maintenance of whole-body therapeutic hypothermia during patient transport and magnetic resonance imaging. <i>Pediatric Radiology</i> , 2014, 44, 613-617.	1.1	22
45	Magnetic resonance spectroscopy markers of axons and astrogliosis in relation to specific features of white matter injury in preterm infants. <i>Neuroradiology</i> , 2014, 56, 771-779.	1.1	21
46	Repeatability of Chemical-Shift-Encoded Water-Fat MRI and Diffusion-Tensor Imaging in Lower Extremity Muscles in Children. <i>American Journal of Roentgenology</i> , 2014, 202, W567-W573.	1.0	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. <i>Pediatric Hematology and Oncology</i> , 2013, 30, 623-632.	0.3	28
49	Metabolic Maturation of the Human Brain From Birth Through Adolescence: Insights From In Vivo Magnetic Resonance Spectroscopy. <i>Cerebral Cortex</i> , 2013, 23, 2944-2955.	1.6	131
50	Abnormal Cerebral Microstructure in Premature Neonates with Congenital Heart Disease. <i>American Journal of Neuroradiology</i> , 2013, 34, 2026-2033.	1.2	31
51	Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. <i>Seminars in Neurology</i> , 2013, 32, 557-558.	0.5	1
52	Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. <i>Seminars in Neurology</i> , 2013, 32, 432-453.	0.5	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.	1.1	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.	1.1	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.	1.4	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.	1.8	138
62	Elevated citrate in pediatric astrocytomas with malignant progression. Neuro-Oncology, 2011, 13, 1107-1117.	0.6	31
63	Magnetic resonance spectroscopy in pediatric neuroradiology: clinical and research applications. Pediatric Radiology, 2010, 40, 3-30.	1.1	98
64	PET imaging in pediatric neuroradiology: current and future applications. Pediatric Radiology, 2010, 40, 82-96.	1.1	38
65	Contralateral hemimicrencephaly in neonatal hemimegalencephaly. Pediatric Radiology, 2010, 40, 1826-1830.	1.1	10
66	Basic Principles and Concepts Underlying Recent Advances in Magnetic Resonance Imaging of the Developing Brain. Seminars in Perinatology, 2010, 34, 3-19.	1.1	32
67	Neuroimaging of Pediatric Brain Tumors: From Basic to Advanced Magnetic Resonance Imaging (MRI). Journal of Child Neurology, 2009, 24, 1343-1365.	0.7	102
68	Metabolism of Orthotopic Mouse Brain Tumor Models. Molecular Imaging, 2009, 8, 7290.2009.00019.	0.7	10
69	Metabolism of orthotopic mouse brain tumor models. Molecular Imaging, 2009, 8, 199-208.	0.7	8
70	Direct determination of the N-acetyl-l-aspartate synthesis rate in the human brain by ¹³ Câ€fMRS and [1- ¹³ C]glucose infusion. Journal of Neurochemistry, 2008, 77, 347-350.	2.1	5
71	Metabolism of diffuse intrinsic brainstem gliomas in children. Neuro-Oncology, 2008, 10, 32-44.	0.6	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.	1.0	181

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73	Visualization of Cerebrospinal Fluid Movement with Spin Labeling at MR Imaging: Preliminary Results in Normal and Pathophysiologic Conditions. <i>Radiology</i> , 2008, 249, 644-652.	3.6	163
74	Advances in Magnetic Resonance Imaging of the Injured Neonatal Brain. <i>Pediatric Annals</i> , 2008, 37, 395-402.	0.3	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. <i>Pediatric Neurosurgery</i> , 2007, 43, 461-467.	0.4	8
77	Advances in Magnetic Resonance Neuroimaging Techniques in the Evaluation of Neonatal Encephalopathy. <i>Topics in Magnetic Resonance Imaging</i> , 2007, 18, 3-29.	0.7	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-decoupled ³¹ P MRS in untreated pediatric brain tumors. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 22-29.	1.9	63
81	Differentiation of choroid plexus tumors by advanced magnetic resonance spectroscopy. <i>Neurosurgical Focus</i> , 2005, 18, 1-4.	1.0	22
82	Untreated Pediatric Primitive Neuroectodermal Tumor in Vivo: Quantitation of Taurine with MR Spectroscopy. <i>Radiology</i> , 2005, 236, 1020-1025.	3.6	104
83	MR Imaging of Newborns by Using an MR-compatible Incubator with Integrated Radiofrequency Coils: Initial Experience. <i>Radiology</i> , 2004, 231, 594-601.	3.6	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 abundance ¹ H decoupled ¹³ C MRS at 1.5 T: clinical applications to dietary therapy. <i>NMR in Biomedicine</i> , 2003, 16, 160-167.	1.6	40
86	Functional MRI in neonates using neonatal head coil and MR compatible incubator. <i>NeuroImage</i> , 2003, 20, 683-692.	2.1	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- ¹³ C] glucose MRS in chronic hepatic encephalopathy in man. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 981-993.	1.9	53
89	Alternative 1- ¹³ C glucose infusion protocols for clinical ¹³ C MRS examinations of the brain. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 39-48.	1.9	35
90	1- ¹³ C glucose magnetic resonance spectroscopy of pediatric and adult brain disorders. <i>NMR in Biomedicine</i> , 2001, 14, 19-32.	1.6	74

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91	Magnetic resonance spectroscopy of the human brain. <i>The Anatomical Record</i> , 2001, 265, 54-84.	2.3	369
92	Direct determination of the N-acetyl-l-aspartate synthesis rate in the human brain by ¹³ C MRS and [1- ¹³ C]glucose infusion. <i>Journal of Neurochemistry</i> , 2001, 77, 347-350.	2.1	139
93	Novel Peak Assignments of in Vivo ¹³ C MRS in Human Brain at 1.5 T. <i>Journal of Magnetic Resonance</i> , 2000, 143, 292-298.	1.2	29
94	Efficacy of proton magnetic resonance spectroscopy in clinical decision making for patients with suspected malignant brain tumors. <i>Journal of Neuro-Oncology</i> , 1999, 45, 69-81.	1.4	71
95	Identification of cerebral acetone by ¹ H-MRS in patients with epilepsy controlled by ketogenic diet. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1999, 8, 33-42.	1.1	36
96	In Vivo Quantitation of Cerebral Metabolite Concentrations Using Natural Abundance ¹³ C MRS at 1.5 T. <i>Journal of Magnetic Resonance</i> , 1999, 136, 219-225.	1.2	68
97	Developmental changes in choline- and ethanolamine-containing compounds measured with proton-decoupled ³¹ P MRS in in vivo human brain. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 643-654.	1.9	115
98	In vivo magnetic resonance spectroscopy of human fetal neural transplants. <i>NMR in Biomedicine</i> , 1999, 12, 221-236.	1.6	49
99	Activation of Neurotransplants in Humans. <i>Experimental Neurology</i> , 1999, 158, 121-125.	2.0	20
100	Magnetic Resonance Spectroscopy of the Human Brain. , 1999, , 1099-1148.		2
101	Quantitative Proton-Decoupled ³¹ P MRS of the Schizophrenic Brain In Vivo. <i>Journal of Computer Assisted Tomography</i> , 1999, 23, 272-275.	0.5	46
102	Lack of effect of oral choline supplement on the concentrations of choline metabolites in human brain. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 1005-1010.	1.9	33
103	¹ H MRS in acute traumatic brain injury. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 829-840.	1.9	207
104	Proton- ³¹ P Magnetic Resonance Spectroscopy Reveals Osmotic and Metabolic Disturbances in Human Hepatic Encephalopathy. <i>Journal of Neurochemistry</i> , 1998, 71, 1564-1576.	2.1	62
105	In vivo magnetic resonance spectroscopy of human brain: The biophysical basis of dementia. <i>Biophysical Chemistry</i> , 1997, 68, 161-172.	1.5	80
106	Differentiation between cortical atrophy and hydrocephalus using ¹ H MRS. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 395-403.	1.9	30
107	Magnetic Resonance Spectroscopy in the Study of Hyperammonemia and Hepatic Encephalopathy. <i>Advances in Experimental Medicine and Biology</i> , 1997, 420, 185-194.	0.8	8
108	Proton Magnetic Resonance Spectroscopy: The New Gold Standard for Diagnosis of Clinical and Subclinical Hepatic Encephalopathy?. <i>Digestive Diseases</i> , 1996, 14, 30-39.	0.8	80

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109	A comparison of magnetization prepared 3D gradientecho (MP-RAGE) sequences for imaging of intracranial lesions. <i>Magnetic Resonance Imaging</i> , 1996, 14, 329-335.	1.0	21
110	Rapid automatic brain volumetry on the basis of multispectral 3D MR imaging data on personal computers. <i>Computerized Medical Imaging and Graphics</i> , 1995, 19, 185-205.	3.5	25
111	Radiosurgical treatment planning of brain metastases based on a fast, three-dimensional MR imaging technique. <i>Magnetic Resonance Imaging</i> , 1994, 12, 811-819.	1.0	30
112	3D MPRAGE evaluation of lesions in the posterior cranial fossa. <i>Magnetic Resonance Imaging</i> , 1994, 12, 553-558.	1.0	27
113	Improved target volume definition for precision radiotherapy planning of meningiomas by correlation of CT and dynamic, Gd-DTPA-enhanced FLASH MR imaging. <i>Radiotherapy and Oncology</i> , 1994, 33, 73-79.	0.3	11
114	Spin-lattice relaxation time measurement by means of a TurboFLASH technique. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 289-295.	1.9	135
115	IX. MR tissue characterization of intracranial tumors by means of texture analysis. <i>Magnetic Resonance Imaging</i> , 1993, 11, 889-896.	1.0	115
116	Physiological MR of pediatric brain tumors. , 0, , 766-783.		0