

Stefan Bluml

List of Publications by Year in descending order

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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	Magnetic resonance spectroscopy of the human brain. <i>The Anatomical Record</i> , 2001, 265, 54-84.	1.8	369
2	¹ H MRS in acute traumatic brain injury. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 829-840.	3.4	207
3	Three-Point Technique of Fat Quantification of Muscle Tissue as a Marker of Disease Progression in Duchenne Muscular Dystrophy: Preliminary Study. <i>American Journal of Roentgenology</i> , 2008, 190, W8-W12.	2.2	181
4	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.	7.3	163
5	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.	3.9	139
6	Bone Marrow Fat Is Inversely Related to Cortical Bone in Young and Old Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 782-786.	3.6	138
7	Spin-lattice relaxation time measurement by means of a TurboFLASH technique. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 289-295.	3.0	135
8	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.	2.9	131
9	IX. MR tissue characterization of intracranial tumors by means of texture analysis. <i>Magnetic Resonance Imaging</i> , 1993, 11, 889-896.	1.8	115
10	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.	3.0	115
11	Untreated Pediatric Primitive Neuroectodermal Tumor in Vivo: Quantitation of Taurine with MR Spectroscopy. <i>Radiology</i> , 2005, 236, 1020-1025.	7.3	104
12	Neuroimaging of Pediatric Brain Tumors: From Basic to Advanced Magnetic Resonance Imaging (MRI). <i>Journal of Child Neurology</i> , 2009, 24, 1343-1365.	1.4	102
13	Magnetic resonance spectroscopy in pediatric neuroradiology: clinical and research applications. <i>Pediatric Radiology</i> , 2010, 40, 3-30.	2.0	98
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.	10.3	92
15	Integrated Metabolic and Epigenomic Reprograming by H3K27M Mutations in Diffuse Intrinsic Pontine Gliomas. <i>Cancer Cell</i> , 2020, 38, 334-349.e9.	16.8	87
16	Proton Magnetic Resonance Spectroscopy: The New Gold Standard for Diagnosis of Clinical and Subclinical Hepatic Encephalopathy?. <i>Digestive Diseases</i> , 1996, 14, 30-39.	1.9	80
17	In vivo magnetic resonance spectroscopy of human brain: The biophysical basis of dementia. <i>Biophysical Chemistry</i> , 1997, 68, 161-172.	2.8	80
18	Functional MRI in neonates using neonatal head coil and MR compatible incubator. <i>NeuroImage</i> , 2003, 20, 683-692.	4.2	76

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19	1-13C glucose magnetic resonance spectroscopy of pediatric and adult brain disorders. NMR in Biomedicine, 2001, 14, 19-32.	2.8	74
20	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
21	MR Imaging of Newborns by Using an MR-compatible Incubator with Integrated Radiofrequency Coils: Initial Experience. Radiology, 2004, 231, 594-601.	7.3	70
22	Molecular subgroups of medulloblastoma identification using noninvasive magnetic resonance spectroscopy. Neuro-Oncology, 2016, 18, 126-131.	1.2	69
23	In Vivo Quantitation of Cerebral Metabolite Concentrations Using Natural Abundance 13C MRS at 1.5 T. Journal of Magnetic Resonance, 1999, 136, 219-225.	2.1	68
24	Proton-decoupled 31P MRS in untreated pediatric brain tumors. Magnetic Resonance in Medicine, 2005, 53, 22-29.	3.0	63
25	Proton-Decoupled ³¹ P Magnetic Resonance Spectroscopy Reveals Osmotic and Metabolic Disturbances in Human Hepatic Encephalopathy. Journal of Neurochemistry, 1998, 71, 1564-1576.	3.9	62
26	[1-13C] glucose MRS in chronic hepatic encephalopathy in man. Magnetic Resonance in Medicine, 2001, 45, 981-993.	3.0	53
27	The effects of therapeutic hypothermia on cerebral metabolism in neonates with hypoxic-ischemic encephalopathy: An in vivo ¹ H-MR spectroscopy study. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1075-1086.	4.3	52
28	In vivo magnetic resonance spectroscopy of human fetal neural transplants. NMR in Biomedicine, 1999, 12, 221-236.	2.8	49
29	Metabolism of diffuse intrinsic brainstem gliomas in children. Neuro-Oncology, 2008, 10, 32-44.	1.2	49
30	Neuroimaging biomarkers of preterm brain injury: toward developing the preterm connectome. Pediatric Radiology, 2012, 42, 33-61.	2.0	49
31	Quantitative Proton-Decoupled 31P MRS of the Schizophrenic Brain In Vivo. Journal of Computer Assisted Tomography, 1999, 23, 272-275.	0.9	46
32	Treatment of children with recurrent high grade gliomas with a bevacizumab containing regimen. Journal of Neuro-Oncology, 2011, 103, 673-680.	2.9	44
33	In vivo characterization of fatty acids in human adipose tissue using natural abundance 1H decoupled 13C MRS at 1.5 T: clinical applications to dietary therapy. NMR in Biomedicine, 2003, 16, 160-167.	2.8	40
34	Metabolic Maturation of White Matter Is Altered in Preterm Infants. PLoS ONE, 2014, 9, e85829.	2.5	39
35	PET imaging in pediatric neuroradiology: current and future applications. Pediatric Radiology, 2010, 40, 82-96.	2.0	38
36	Pineal Region Masses in Pediatric Patients. Neuroimaging Clinics of North America, 2017, 27, 85-97.	1.0	37

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37	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.	2.0	36
38	Advances in Magnetic Resonance Neuroimaging Techniques in the Evaluation of Neonatal Encephalopathy. <i>Topics in Magnetic Resonance Imaging</i> , 2007, 18, 3-29.	1.2	36
39	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.	3.0	35
40	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.	3.0	33
41	Basic Principles and Concepts Underlying Recent Advances in Magnetic Resonance Imaging of the Developing Brain. <i>Seminars in Perinatology</i> , 2010, 34, 3-19.	2.5	32
42	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.	2.4	32
43	Elevated citrate in pediatric astrocytomas with malignant progression. <i>Neuro-Oncology</i> , 2011, 13, 1107-1117.	1.2	31
44	Abnormal Cerebral Microstructure in Premature Neonates with Congenital Heart Disease. <i>American Journal of Neuroradiology</i> , 2013, 34, 2026-2033.	2.4	31
45	Radiosurgical treatment planning of brain metastases based on a fast, three-dimensional MR imaging technique. <i>Magnetic Resonance Imaging</i> , 1994, 12, 811-819.	1.8	30
46	Differentiation between cortical atrophy and hydrocephalus using ¹ H MRS. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 395-403.	3.0	30
47	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.	2.1	29
48	Altered Glutamatergic Metabolism Associated with Punctate White Matter Lesions in Preterm Infants. <i>PLoS ONE</i> , 2013, 8, e56880.	2.5	29
49	Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. <i>Science Translational Medicine</i> , 2021, 13, eabc0497.	12.4	29
50	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.	0.8	28
51	Structural network topology correlates of microstructural brain dysmaturity in term infants with congenital heart disease. <i>Human Brain Mapping</i> , 2018, 39, 4593-4610.	3.6	28
52	3D MPRAGE evaluation of lesions in the posterior cranial fossa. <i>Magnetic Resonance Imaging</i> , 1994, 12, 553-558.	1.8	27
53	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.	5.8	25
54	Brain Temperature in Neonates with Hypoxic-Ischemic Encephalopathy during Therapeutic Hypothermia. <i>Journal of Pediatrics</i> , 2014, 165, 1129-1134.	1.8	25

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55	Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. <i>Seminars in Neurology</i> , 2013, 32, 432-453.	1.4	23
56	Differentiation of choroid plexus tumors by advanced magnetic resonance spectroscopy. <i>Neurosurgical Focus</i> , 2005, 18, 1-4.	2.3	22
57	Maintenance of whole-body therapeutic hypothermia during patient transport and magnetic resonance imaging. <i>Pediatric Radiology</i> , 2014, 44, 613-617.	2.0	22
58	A comparison of magnetization prepared 3D gradientecho (MP-RAGE) sequences for imaging of intracranial lesions. <i>Magnetic Resonance Imaging</i> , 1996, 14, 329-335.	1.8	21
59	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.	2.2	21
60	Combined MRI and MRS improves pre-therapeutic diagnoses of pediatric brain tumors over MRI alone. <i>Neuroradiology</i> , 2015, 57, 951-956.	2.2	21
61	Activation of Neurotransplants in Humans. <i>Experimental Neurology</i> , 1999, 158, 121-125.	4.1	20
62	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.	1.6	20
63	Association between Subcortical Morphology and Cerebral White Matter Energy Metabolism in Neonates with Congenital Heart Disease. <i>Scientific Reports</i> , 2018, 8, 14057.	3.3	18
64	Brain MR imaging and spectroscopy for outcome prognostication after pediatric cardiac arrest. <i>Resuscitation</i> , 2020, 157, 185-194.	3.0	17
65	Characterization of Microstructural Injury: A Novel Approach in Infant Abusive Head Trauma—Initial Experience. <i>Journal of Neurotrauma</i> , 2014, 31, 1632-1638.	3.4	16
66	Clinical Factors Associated with Cerebral Metabolism in Term Neonates with Congenital Heart Disease. <i>Journal of Pediatrics</i> , 2017, 183, 67-73.e1.	1.8	16
67	Equations to describe brain size across the continuum of human lifespan. <i>Brain Structure and Function</i> , 2014, 219, 141-150.	2.3	15
68	Measuring Stroke Volume: Impedance Cardiography vs Phase-Contrast Magnetic Resonance Imaging. <i>American Journal of Critical Care</i> , 2017, 26, 408-415.	1.6	15
69	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.	2.2	14
70	Citrate concentrations increase with hypoperfusion in pediatric diffuse intrinsic pontine glioma. <i>Journal of Neuro-Oncology</i> , 2015, 122, 383-389.	2.9	14
71	Abnormal Development of Thalamic Microstructure in Premature Neonates with Congenital Heart Disease. <i>Pediatric Cardiology</i> , 2015, 36, 960-969.	1.3	14
72	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.	0.8	13

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73	Reduced thalamic volume in preterm infants is associated with abnormal white matter metabolism independent of injury. <i>Neuroradiology</i> , 2015, 57, 515-525.	2.2	12
74	Magnetic Resonance Spectroscopy: Basics. , 2013, , 11-23.		12
75	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.	0.6	11
76	Developmental synergy between thalamic structure and interhemispheric connectivity in the visual system of preterm infants. <i>NeuroImage: Clinical</i> , 2015, 8, 462-472.	2.7	11
77	Contralateral hemimicrencephaly in neonatal hemimegalencephaly. <i>Pediatric Radiology</i> , 2010, 40, 1826-1830.	2.0	10
78	Metabolism of Orthotopic Mouse Brain Tumor Models. <i>Molecular Imaging</i> , 2009, 8, 7290.2009.00019.	1.4	10
79	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.	2.4	9
80	Proton Magnetic Resonance Spectroscopy of Hydrocephalic Infants. <i>Pediatric Neurosurgery</i> , 2007, 43, 461-467.	0.7	8
81	Neuroimaging of Peptide-based Vaccine Therapy in Pediatric Brain Tumors. <i>Neuroimaging Clinics of North America</i> , 2017, 27, 155-166.	1.0	8
82	Magnetic Resonance Spectroscopy in the Study of Hyperammonemia and Hepatic Encephalopathy. <i>Advances in Experimental Medicine and Biology</i> , 1997, 420, 185-194.	1.6	8
83	Metabolism of orthotopic mouse brain tumor models. <i>Molecular Imaging</i> , 2009, 8, 199-208.	1.4	8
84	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.	2.4	6
85	Clinical ¹ H MRS in childhood neurometabolic diseases” part 1: technique and age-related normal spectra. <i>Neuroradiology</i> , 2022, 64, 1101-1110.	2.2	6
86	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> , 2008, 77, 347-350.	3.9	5
87	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.	1.9	5
88	MRS of pilocytic astrocytoma: The peak at 2.0 ppm may not be NAA. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 452-456.	3.0	5
89	A new MRI tag-based method to non-invasively visualize cerebrospinal fluid flow. <i>Child's Nervous System</i> , 2018, 34, 1677-1682.	1.1	5
90	Magnetic Resonance Spectroscopy of Traumatic Brain Injury and Concussion. , 2006, , 197-220.		4

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91	Extending PACS functionality: towards facilitating the conversion of clinical necessities into research-derived applications. , 2017, 10160, .		4
92	Metabolites of Proton Magnetic Resonance Spectroscopy and Normal Age-Dependent Changes. , 2013, , 25-38.		4
93	The Impact of Venoarterial and Venovenous Extracorporeal Membrane Oxygenation on Cerebral Metabolism in the Newborn Brain. PLoS ONE, 2016, 11, e0168578.	2.5	3
94	Noninvasive estimation of fetal lung maturity with magnetic resonance spectroscopy. American Journal of Obstetrics and Gynecology, 2018, 219, 209-210.	1.3	3
95	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
96	Fetal neurodevelopmental recovery in donors after laser surgery for twinâ€twin transfusion syndrome. Prenatal Diagnosis, 2021, 41, 190-199.	2.3	3
97	Advances in Magnetic Resonance Imaging of the Injured Neonatal Brain. Pediatric Annals, 2008, 37, 395-402.	0.8	3
98	Proton and Multinuclear Spectroscopy of the Pediatric Brain. Magnetic Resonance Imaging Clinics of North America, 2021, 29, 543-555.	1.1	3
99	Clinical 1H MRS in childhood neurometabolic diseases â€” part 2: MRS signatures. Neuroradiology, 2022, , 1.	2.2	3
100	Proton MR Spectroscopy of Pediatric Brain Disorders. Diagnostics, 2022, 12, 1462.	2.6	3
101	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
102	Magnetic Resonance Spectroscopy of the Human Brain. , 1999, , 1099-1148.		2
103	Guidelines for Acquiring and Reporting Clinical Neurospectroscopy. Seminars in Neurology, 2013, 32, 557-558.	1.4	1
104	Traumatic Brain Injury and Concussion. , 2013, , 67-75.		1
105	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
106	Effects of Tissue Temperature and Injury on ADC during Therapeutic Hypothermia in Newborn Hypoxic-Ischemic Encephalopathy. American Journal of Neuroradiology, 2022, , .	2.4	1
107	Analysis of brain fMRI time-series using HRF knowledge-based correlation classifier on unsupervised self-organizing neural network map. , 2003, 5031, 350.		0
108	Neurodevelopment assessment of newborns with combined fMRI and DTI. , 2004, , .		0

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109	Relevant information retrieval and fusion of anatomic, physiologic, and metabolic neuroimaging. , 2005, , .		0
110	Physiological MR of pediatric brain tumors. , 0, , 766-783.		0
111	Multinuclear MRS in Children. , 2013, , 295-303.		0
112	AT-02MR SPECTROSCOPY AND METABOLIC SUBTYPES OF ATYPICAL TERATOID RHABDOID TUMORS IN CHILDREN. Neuro-Oncology, 2016, 18, iii1.1-iii1.	1.2	0
113	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
114	Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-related Brain Injury. , 2008, , 133-146.		0
115	Advanced Magnetic Resonance Neuroimaging Techniques in the Neonate with a Focus on Hemodynamic-Related Brain Injury. , 2012, , 187-198.		0
116	Diffuse Intrinsic Pontine Gliomas. , 2013, , 61-66.		0