

John G Sled

List of Publications by Year in descending order

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Version: 2024-02-01

213
papers

15,336
citations

39113

52
h-index

22488

117
g-index

225
all docs

225
docs citations

225
times ranked

20498
citing authors

#	ARTICLE	IF	CITATIONS
1	Doppler Ultrasound of the Fetal Descending Aorta: An Objective Tool to Assess Placental Blood Flow Resistance in Pregnancies With Discordant Umbilical Arteries. <i>Journal of Ultrasound in Medicine</i> , 2022, 41, 899-905.	0.8	2
2	A functional cerebral endothelium is necessary to protect against cognitive decline. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 74-89.	2.4	12
3	The Effect of 3D Whole, Major, and Small Vasculature On Mouse Brain Strain Under Both Diffuse and Focal Brain Injury Loading. <i>Journal of Biomechanical Engineering</i> , 2022, , .	0.6	1
4	Genetic mouse models of autism spectrum disorder present subtle heterogenous cardiac abnormalities. <i>Autism Research</i> , 2022, 15, 1189-1208.	2.1	6
5	Maternal Exposure to Polystyrene Micro- and Nanoplastics Causes Fetal Growth Restriction in Mice. <i>Environmental Science and Technology Letters</i> , 2022, 9, 426-430.	3.9	33
6	Age-dependent gray matter demyelination is associated with leptomenigeal neutrophil accumulation. <i>JCI Insight</i> , 2022, 7, .	2.3	5
7	Flow-Mediated Factors in the Pathogenesis of Hypoplastic Left Heart Syndrome. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 154.	0.8	3
8	Determination of fetal heart rate short-term variation from umbilical artery Doppler waveforms. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 70-74.	0.9	2
9	Sex differences in modulation of fetoplacental vascular resistance in growth-restricted mouse fetuses following betamethasone administration: comparisons with human fetuses. <i>American Journal of Obstetrics & Gynecology MFM</i> , 2021, 3, 100251.	1.3	5
10	Maternal obesity persistently alters cardiac progenitor gene expression and programs adult-onset heart disease susceptibility. <i>Molecular Metabolism</i> , 2021, 43, 101116.	3.0	8
11	Interpretation of Wave Reflections in the Umbilical Arterial Segment of the Feto-Placental Circulation: Computational Modeling of the Feto-Placental Arterial Tree. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3647-3658.	2.5	3
12	Peroxisome Proliferator-Activated Receptor- γ Deficiency in Microglia Results in Exacerbated Axonal Injury and Tissue Loss in Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2021, 12, 570425.	2.2	10
13	Sex differences in uterine artery Doppler during gestation in pregnancies complicated by placental dysfunction. <i>Biology of Sex Differences</i> , 2021, 12, 19.	1.8	4
14	Combination of histochemical analyses and micro-MRI reveals regional changes of the murine cervix in preparation for labor. <i>Scientific Reports</i> , 2021, 11, 4903.	1.6	6
15	Sex differences in fetal Doppler parameters during gestation. <i>Biology of Sex Differences</i> , 2021, 12, 26.	1.8	3
16	A fully segmented 3D anatomical atlas of a lizard brain. <i>Brain Structure and Function</i> , 2021, 226, 1727-1741.	1.2	5
17	In response to the Letter to the Editor by Romach et al. re our publication "Dolutegravir in pregnant mice is associated with increased rates of fetal defects at therapeutic but not at suprathreshold levels". <i>EBioMedicine</i> , 2021, 66, 103334.	2.7	0
18	Wave reflections in the umbilical artery measured by Doppler ultrasound as a novel predictor of placental pathology. <i>EBioMedicine</i> , 2021, 67, 103326.	2.7	14

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19	Brain microvascular damage linked to a moderate level of strain induced by controlled cortical impact. <i>Journal of Biomechanics</i> , 2021, 122, 110452.	0.9	2
20	The CD94/NKG2A inhibitory receptor educates uterine NK cells to optimize pregnancy outcomes in humans and mice. <i>Immunity</i> , 2021, 54, 1231-1244.e4.	6.6	44
21	A mouse model of hypoplastic left heart syndrome demonstrating left heart hypoplasia and retrograde aortic arch flow. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	13
22	Attenuation of tonic inhibition prevents chronic neurovascular impairments in a Thy1-ChR2 mouse model of repeated, mild traumatic brain injury. <i>Theranostics</i> , 2021, 11, 7685-7699.	4.6	6
23	Dolutegravir in pregnant mice is associated with increased rates of fetal defects at therapeutic but not at supratherapeutic levels. <i>EBioMedicine</i> , 2021, 63, 103167.	2.7	25
24	The Angiotensin-Tie2 axis contributes to placental vascular disruption and adverse birth outcomes in malaria in pregnancy. <i>EBioMedicine</i> , 2021, 73, 103683.	2.7	13
25	The utility of MRI for measuring hematocrit in fetal anemia. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 222, 81.e1-81.e13.	0.7	19
26	Cerebrovascular MRI in the mouse without an exogenous contrast agent. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 405-415.	1.9	5
27	Malaria in Pregnancy and Adverse Birth Outcomes: New Mechanisms and Therapeutic Opportunities. <i>Trends in Parasitology</i> , 2020, 36, 127-137.	1.5	20
28	The effects of voluntary running on cerebrovascular morphology and spatial short-term memory in a mouse model of amyloidosis. <i>NeuroImage</i> , 2020, 222, 117269.	2.1	6
29	Dried blood spots for the identification of bioaccumulating organic compounds: Current challenges and future perspectives. <i>Current Opinion in Environmental Science and Health</i> , 2020, 15, 66-73.	2.1	6
30	Structural Variant in Mitochondrial-Associated Gene (MRPL3) Induces Adult-Onset Neurodegeneration with Memory Impairment in the Mouse. <i>Journal of Neuroscience</i> , 2020, 40, 4576-4585.	1.7	3
31	Normal human and sheep fetal vessel oxygen saturations by T2 magnetic resonance imaging. <i>Journal of Physiology</i> , 2020, 598, 3259-3281.	1.3	42
32	Non-Invasive Ultrasound Detection of Cerebrovascular Changes in a Mouse Model of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 2157-2168.	1.7	1
33	Wharton's jelly area and its association with placental morphometry and pathology. <i>Placenta</i> , 2020, 94, 34-38.	0.7	7
34	Quantification of Wave Reflection in the Human Umbilical Artery From Asynchronous Doppler Ultrasound Measurements. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3749-3757.	5.4	7
35	White Matter Changes Caused by Mild Traumatic Brain Injury in Mice Evaluated Using Neurite Orientation Dispersion and Density Imaging. <i>Journal of Neurotrauma</i> , 2020, 37, 1818-1828.	1.7	12
36	Effect of maternal betamethasone administration on feto-placental vascular resistance in the mouse. <i>Biology of Reproduction</i> , 2019, 101, 823-831.	1.2	9

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37	Adult Pgf ^{+/+} mice behaviour and neuroanatomy are altered by neonatal treatment with recombinant placental growth factor. <i>Scientific Reports</i> , 2019, 9, 9285.	1.6	10
38	Aged hind-limb clasping experimental autoimmune encephalomyelitis models aspects of the neurodegenerative process seen in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22710-22720.	3.3	12
39	Acute and chronic stage adaptations of vascular architecture and cerebral blood flow in a mouse model of TBI. <i>NeuroImage</i> , 2019, 202, 116101.	2.1	18
40	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3269-3278.	0.7	6
41	Fast gas chromatography-atmospheric pressure (photo)ionization mass spectrometry of polybrominated diphenylether flame retardants. <i>Analytica Chimica Acta</i> , 2019, 1056, 70-78.	2.6	23
42	Altered myelin maturation in four year old children born very preterm. <i>NeuroImage: Clinical</i> , 2019, 21, 101635.	1.4	25
43	Fetal hemodynamics and cardiac streaming assessed by 4D flow cardiovascular magnetic resonance in fetal sheep. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 8.	1.6	47
44	In vivo neurovascular response to focused photoactivation of Channelrhodopsin-2. <i>NeuroImage</i> , 2019, 192, 135-144.	2.1	6
45	Compositional space: A guide for environmental chemists on the identification of persistent and bioaccumulative organics using mass spectrometry. <i>Environment International</i> , 2019, 132, 104808.	4.8	23
46	White matter microstructural differences identified using multi-shell diffusion imaging in six-year-old children born very preterm. <i>NeuroImage: Clinical</i> , 2019, 23, 101855.	1.4	43
47	Reflected hemodynamic waves influence the pattern of Doppler ultrasound waveforms along the umbilical arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1105-H1112.	1.5	14
48	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound. , 2019, , .		1
49	High Systolic Blood Pressure Induces Cerebral Microvascular Endothelial Dysfunction, Neurovascular Unit Damage, and Cognitive Decline in Mice. <i>Hypertension</i> , 2019, 73, 217-228.	1.3	77
50	White matter injury predicts disrupted functional connectivity and microstructure in very preterm born neonates. <i>NeuroImage: Clinical</i> , 2019, 21, 101596.	1.4	30
51	Placental vascular abnormalities in the mouse alter umbilical artery wave reflections. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H664-H672.	1.5	17
52	Fetal brain sparing in a mouse model of chronic maternal hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1172-1184.	2.4	17
53	Malaria in pregnancy alters α -arginine bioavailability and placental vascular development. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	41
54	Altered white matter development in children born very preterm. <i>Brain Structure and Function</i> , 2018, 223, 2129-2141.	1.2	39

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55	Feto- and utero-placental vascular adaptations to chronic maternal hypoxia in the mouse. <i>Journal of Physiology</i> , 2018, 596, 3285-3297.	1.3	27
56	HIV antiretroviral exposure in pregnancy induces detrimental placenta vascular changes that are rescued by progesterone supplementation. <i>Scientific Reports</i> , 2018, 8, 6552.	1.6	39
57	In Vivo Evaluation of the Cardiovascular System of Mouse Embryo and Fetus Using High Frequency Ultrasound. <i>Methods in Molecular Biology</i> , 2018, 1752, 17-39.	0.4	1
58	Human umbilical cord blood relaxation times and susceptibility at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3194-3206.	1.9	26
59	Modelling and interpretation of magnetization transfer imaging in the brain. <i>NeuroImage</i> , 2018, 182, 128-135.	2.1	109
60	Simulations of blood as a suspension predicts a depth dependent hematocrit in the circulation throughout the cerebral cortex. <i>PLoS Computational Biology</i> , 2018, 14, e1006549.	1.5	25
61	Neurogliovascular dysfunction in a model of repeated traumatic brain injury. <i>Theranostics</i> , 2018, 8, 4824-4836.	4.6	28
62	Magnetic resonance spectroscopy in very preterm-born children at 4 years of age: developmental course from birth and outcomes. <i>Neuroradiology</i> , 2018, 60, 1063-1073.	1.1	7
63	Structural covariance of brain region volumes is associated with both structural connectivity and transcriptomic similarity. <i>NeuroImage</i> , 2018, 179, 357-372.	2.1	57
64	Involvement of the Amygdala in Memory and Psychosocial Functioning in Pediatric-Onset Multiple Sclerosis. <i>Developmental Neuropsychology</i> , 2018, 43, 524-534.	1.0	12
65	Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R611-R622.	0.9	38
66	Effects of placental growth factor deficiency on behavior, neuroanatomy, and cerebrovasculature of mice. <i>Physiological Genomics</i> , 2018, 50, 862-875.	1.0	19
67	Longitudinal Study of White Matter Development and Outcomes in Children Born Very Preterm. <i>Cerebral Cortex</i> , 2017, 27, 4094-4105.	1.6	30
68	Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 994-1005.	2.4	23
69	Relaxation properties of human umbilical cord blood at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1678-1690.	1.9	40
70	IFPA meeting 2016 workshop report II: Placental imaging, placenta and development of other organs, sexual dimorphism in placental function and trophoblast cell lines. <i>Placenta</i> , 2017, 60, S10-S14.	0.7	16
71	Non-invasive evaluation of blood oxygen saturation and hematocrit from T_1 and T_2 relaxation times: In vitro validation in fetal blood. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2352-2359.	1.9	48
72	Altered cerebral blood flow and cerebrovascular function after voluntary exercise in adult mice. <i>Brain Structure and Function</i> , 2017, 222, 3395-3405.	1.2	7

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73	Early neurovascular dysfunction in a transgenic rat model of Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 46427.	1.6	83
74	Ehmt2/G9a controls placental vascular maturation by activating the Notch pathway. <i>Development (Cambridge)</i> , 2017, 144, 1976-1987.	1.2	18
75	A mouse model of antepartum stillbirth. <i>American Journal of Obstetrics and Gynecology</i> , 2017, 217, 443.e1-443.e11.	0.7	12
76	Ultrasound detection of altered placental vascular morphology based on hemodynamic pulse wave reflection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1021-H1029.	1.5	13
77	B ₁ mapping for bias correction in quantitative T ₁ imaging of the brain at 3T using standard pulse sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1673-1682.	1.9	53
78	Arterio-venous fetoplacental vascular geometry and hemodynamics in the mouse placenta. <i>Placenta</i> , 2017, 58, 46-51.	0.7	18
79	Activated NK cells cause placental dysfunction and miscarriages in fetal alloimmune thrombocytopenia. <i>Nature Communications</i> , 2017, 8, 224.	5.8	77
80	Magnetic resonance thermometry of flowing blood. <i>NMR in Biomedicine</i> , 2017, 30, e3772.	1.6	4
81	Effects of voluntary exercise on structure and function of cortical microvasculature. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1046-1059.	2.4	19
82	New advances in fetal cardiovascular magnetic resonance imaging for quantifying the distribution of blood flow and oxygen transport: Potential applications in fetal cardiovascular disease diagnosis and therapy. <i>Echocardiography</i> , 2017, 34, 1799-1803.	0.3	27
83	3D morphological analysis of the mouse cerebral vasculature: Comparison of in vivo and ex vivo methods. <i>PLoS ONE</i> , 2017, 12, e0186676.	1.1	31
84	MINC 2.0: A Flexible Format for Multi-Modal Images. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 35.	1.3	65
85	Longitudinal cerebellar growth following very preterm birth. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1462-1473.	1.9	13
86	P1015: Evaluation of Effects of Physical Exercise on Vascular and Cerebral Pathology, Plasticity and Function in a Mouse Model of Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P404.	0.4	2
87	P1163: Functional and Pathological Characterization of the Brain Microvasculature in a Rat Model of Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P465.	0.4	0
88	Comparison of in vivo and ex vivo imaging of the microvasculature with 2-photon fluorescence microscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
89	Quantification of Gestational Changes in the Uteroplacental Vascular Tree Reveals Vessel Specific Hemodynamic Roles During Pregnancy in Mice. <i>Biology of Reproduction</i> , 2016, 95, 43-43.	1.2	28
90	The hemodynamics of late-onset intrauterine growth restriction by MRI. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 214, 367.e1-367.e17.	0.7	111

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91	Response to Letter Regarding Article, "Reduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Disease." <i>Circulation</i> , 2016, 133, e8.	1.6	2
92	Brain activation patterns and cognitive processing speed in patients with pediatric-onset multiple sclerosis. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2016, 38, 393-403.	0.8	21
93	Altered resting-state functional connectivity in cognitively preserved pediatric-onset MS patients and relationship to structural damage and cognitive performance. <i>Multiple Sclerosis Journal</i> , 2016, 22, 792-800.	1.4	20
94	Diffusion tensor magnetic resonance imaging in very early onset pediatric multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 620-627.	1.4	19
95	Alterations in Functional and Structural Connectivity in Pediatric-Onset Multiple Sclerosis. <i>PLoS ONE</i> , 2016, 11, e0145906.	1.1	28
96	Quantitative magnetization transfer imaging made easy with qMT: Software for data simulation, analysis, and visualization. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2015, 44A, 263-277.	0.2	39
97	Site-Specific Increases in Utero- and Fetoplacental Arterial Vascular Resistance in eNOS-Deficient Mice Due to Impaired Arterial Enlargement. <i>Biology of Reproduction</i> , 2015, 92, 48.	1.2	34
98	Experimental Malaria in Pregnancy Induces Neurocognitive Injury in Uninfected Offspring via a C5a-C5a Receptor Dependent Pathway. <i>PLoS Pathogens</i> , 2015, 11, e1005140.	2.1	33
99	Evaluation of Cerebrovascular Impedance and Wave Reflection in Mouse by Ultrasound. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 521-526.	2.4	14
100	Cerebral maturation in the early preterm period—A magnetization transfer and diffusion tensor imaging study using voxel-based analysis. <i>NeuroImage</i> , 2015, 112, 30-42.	2.1	31
101	MRI-detectable changes in mouse brain structure induced by voluntary exercise. <i>NeuroImage</i> , 2015, 113, 175-183.	2.1	29
102	Artery-on-a-chip platform for automated, multimodal assessment of cerebral blood vessel structure and function. <i>Lab on A Chip</i> , 2015, 15, 2660-2669.	3.1	53
103	Deep grey matter growth predicts neurodevelopmental outcomes in very preterm children. <i>NeuroImage</i> , 2015, 111, 360-368.	2.1	51
104	Venular degeneration leads to vascular dysfunction in a transgenic model of Alzheimer's disease. <i>Brain</i> , 2015, 138, 1046-1058.	3.7	65
105	Reduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Disease. <i>Circulation</i> , 2015, 131, 1313-1323.	1.6	405
106	Altered brain development in an early-onset murine model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, 638-647.	1.5	13
107	The Uteroplacental, Fetoplacental, and Yolk Sac Circulations in the Mouse. , 2014, , 201-210.		3
108	Quantitative Determination of Regional Lesion Volume and Distribution in Children and Adults with Relapsing-Remitting Multiple Sclerosis. <i>PLoS ONE</i> , 2014, 9, e85741.	1.1	64

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109	Scanning Electron Microscopy and Micro-Computed Tomography Imaging of the Utero- and Fetoplacental Circulations. , 2014, , 637-648.		6
110	Brain Sparing in Fetal Mice: BOLD MRI and Doppler Ultrasound Show Blood Redistribution During Hypoxia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1082-1088.	2.4	32
111	Differential HIF and NOS responses to acute anemia: defining organ-specific hemoglobin thresholds for tissue hypoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R13-R25.	0.9	48
112	MRS in Development and Across the Life Span. , 2014, , 254-265.		2
113	Onset of multiple sclerosis before adulthood leads to failure of age-expected brain growth. Neurology, 2014, 83, 2140-2146.	1.5	107
114	PPAR β Agonists Improve Survival and Neurocognitive Outcomes in Experimental Cerebral Malaria and Induce Neuroprotective Pathways in Human Malaria. PLoS Pathogens, 2014, 10, e1003980.	2.1	49
115	Effects of Genes and Environment on the Fetoplacental Arterial Microcirculation in Mice Revealed by Micro-Computed Tomography Imaging. Microcirculation, 2014, 21, 48-57.	1.0	14
116	Automatic anatomical labeling of the complete cerebral vasculature in mouse models. NeuroImage, 2014, 95, 117-128.	2.1	48
117	Assessment of flow distribution in the mouse fetal circulation at late gestation by high-frequency Doppler ultrasound. Physiological Genomics, 2014, 46, 602-614.	1.0	25
118	Improved method for automatic cerebrovascular labelling using stochastic tunnelling. , 2014, , .		1
119	A perfusion procedure for imaging of the mouse cerebral vasculature by X-ray micro-CT. Journal of Neuroscience Methods, 2014, 221, 70-77.	1.3	82
120	The development of regional functional connectivity in preterm infants into early childhood. Neuroradiology, 2013, 55, 105-111.	1.1	42
121	Quantitative MRI for studying neonatal brain development. Neuroradiology, 2013, 55, 97-104.	1.1	21
122	Cerebral microvascular network geometry changes in response to functional stimulation. NeuroImage, 2013, 71, 248-259.	2.1	45
123	Complement Activation and the Resulting Placental Vascular Insufficiency Drives Fetal Growth Restriction Associated with Placental Malaria. Cell Host and Microbe, 2013, 13, 215-226.	5.1	105
124	Impaired structural correlates of memory in Alzheimer's disease mice. NeuroImage: Clinical, 2013, 3, 290-300.	1.4	32
125	559 SEMI-AUTOMATIC ANALYSIS OF THE BRANCHING TOPOLOGY AND GEOMETRICAL CHARACTERISTICS OF HEPATIC VASCULAR TREES. Journal of Hepatology, 2013, 58, S230.	1.8	0
126	Brain metabolite concentrations are associated with illness severity scores and white matter abnormalities in very preterm infants. Pediatric Research, 2013, 74, 75-81.	1.1	28

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127	Advanced Magnetic Resonance Imaging in Pediatric Multiple Sclerosis. <i>Neuroimaging Clinics of North America</i> , 2013, 23, 337-354.	0.5	9
128	Validation of MRI predictors of multiple sclerosis diagnosis in children with acute CNS demyelination. <i>Multiple Sclerosis and Related Disorders</i> , 2013, 2, 193-199.	0.9	10
129	Quantitative MRI in the very preterm brain: Assessing tissue organization and myelination using magnetization transfer, diffusion tensor and T1 imaging. <i>NeuroImage</i> , 2013, 64, 505-516.	2.1	85
130	Development of a Standardized MRI Scoring Tool for CNS Demyelination in Children. <i>American Journal of Neuroradiology</i> , 2013, 34, 1271-1277.	1.2	12
131	Chronic carbon monoxide inhalation during pregnancy augments uterine artery blood flow and uteroplacental vascular growth in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R939-R948.	0.9	20
132	Adolescent Cocaine Exposure Causes Enduring Macroscale Changes in Mouse Brain Structure. <i>Journal of Neuroscience</i> , 2013, 33, 1797-1803.	1.7	38
133	Hemodynamic effects of cholinesterase inhibition in mild Alzheimer's disease. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 26-35.	1.9	21
134	Reduced head and brain size for age and disproportionately smaller thalami in child-onset MS. <i>Neurology</i> , 2012, 78, 194-201.	1.5	80
135	Expansion of the fetoplacental vasculature in late gestation is strain dependent in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1261-H1273.	1.5	50
136	Deep Gray Matter Maturation in Very Preterm Neonates: Regional Variations and Pathology-related Age-dependent Changes in Magnetization Transfer Ratio. <i>Radiology</i> , 2012, 263, 510-517.	3.6	33
137	Effects of Reduced <i>Gcm1</i> Expression on Trophoblast Morphology, Fetoplacental Vascularity, and Pregnancy Outcomes in Mice. <i>Hypertension</i> , 2012, 59, 732-739.	1.3	61
138	Memory Performance and Normalized Regional Brain Volumes in Patients with Pediatric-Onset Multiple Sclerosis. <i>Journal of the International Neuropsychological Society</i> , 2012, 18, 471-480.	1.2	24
139	Visual functional magnetic resonance imaging of preterm infants. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 724-729.	1.1	30
140	2010 McDonald criteria for diagnosing pediatric multiple sclerosis. <i>Annals of Neurology</i> , 2012, 72, 211-223.	2.8	117
141	Quantitative estimates of stimulation-induced perfusion response using two-photon fluorescence microscopy of cortical microvascular networks. <i>NeuroImage</i> , 2012, 61, 517-524.	2.1	15
142	Effects of prolonged treatment with memantine in the <i>MRL</i> model of central nervous system lupus. <i>Clinical and Experimental Neuroimmunology</i> , 2012, 3, 116-128.	0.5	19
143	Wanted dead or alive? The tradeoff between in-vivo versus ex-vivo MR brain imaging in the mouse. <i>Frontiers in Neuroinformatics</i> , 2012, 6, 6.	1.3	75
144	Robust method for 3D arterial spin labeling in mice. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 98-106.	1.9	16

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145	Efficient sampling of early signal arrival for estimation of perfusion and transit time in whole-brain arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 179-187.	1.9	3
146	Regional brain atrophy in children with multiple sclerosis. <i>NeuroImage</i> , 2011, 58, 409-415.	2.1	71
147	Diffusion tensor imaging and cognitive speed in children with multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 2011, 309, 68-74.	0.3	41
148	Maze training in mice induces MRI-detectable brain shape changes specific to the type of learning. <i>NeuroImage</i> , 2011, 54, 2086-2095.	2.1	276
149	White matter integrity and math performance in pediatric multiple sclerosis. <i>NeuroReport</i> , 2011, 22, 1005-1009.	0.6	51
150	MRI correlates of cognitive impairment in childhood-onset multiple sclerosis. <i>Neuropsychology</i> , 2011, 25, 319-332.	1.0	132
151	MRI parameters for prediction of multiple sclerosis diagnosis in children with acute CNS demyelination: a prospective national cohort study. <i>Lancet Neurology</i> , The, 2011, 10, 1065-1073.	4.9	159
152	Optimized T1- and T2-weighted volumetric brain imaging as a diagnostic tool in very preterm neonates. <i>Pediatric Radiology</i> , 2011, 41, 702-710.	1.1	11
153	Semi-Automatic segmentation of multiple mouse embryos in MR images. <i>BMC Bioinformatics</i> , 2011, 12, 237.	1.2	3
154	Preterm neonatal diffusion processing using detection and replacement of outliers prior to resampling. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 92-101.	1.9	41
155	Iterative optimization method for design of quantitative magnetization transfer imaging experiments. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 635-643.	1.9	11
156	Vessel tortuosity and reduced vascularization in the fetoplacental arterial tree after maternal exposure to polycyclic aromatic hydrocarbons. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H675-H684.	1.5	63
157	MRI Phenotyping of Genetically Altered Mice. <i>Methods in Molecular Biology</i> , 2011, 711, 349-361.	0.4	112
158	Comparative structural and hemodynamic analysis of vascular trees. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1249-H1259.	1.5	48
159	Quantitative magnetization transfer and myelin water imaging of the evolution of acute multiple sclerosis lesions. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 633-640.	1.9	101
160	Reproducibility of quantitative magnetization transfer imaging parameters from repeated measurements. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 391-400.	1.9	27
161	A Mouse Model of Heritable Cerebrovascular Disease. <i>PLoS ONE</i> , 2010, 5, e15327.	1.1	4
162	Mouse embryonic phenotyping by morphometric analysis of MR images. <i>Physiological Genomics</i> , 2010, 42A, 89-95.	1.0	46

#	ARTICLE	IF	CITATIONS
163	Lunatic Fringe-mediated Notch signaling is required for lung alveogenesis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L45-L56.	1.3	76
164	Dimensions of the human sclera: Thickness measurement and regional changes with axial length. Experimental Eye Research, 2010, 90, 277-284.	1.2	179
165	Mutation I810N in the $\alpha 3$ isoform of Na ⁺ ,K ⁺ -ATPase causes impairments in the sodium pump and hyperexcitability in the CNS. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14085-14090.	3.3	128
166	Time course and nature of brain atrophy in the MRL mouse model of central nervous system lupus. Arthritis and Rheumatism, 2009, 60, 1764-1774.	6.7	34
167	Volume Ordering for Analysis and Modeling of Vascular Systems. Annals of Biomedical Engineering, 2009, 37, 542-551.	1.3	8
168	Measurement of cerebral blood volume in mouse brain regions using micro-computed tomography. NeuroImage, 2009, 47, 1312-1318.	2.1	98
169	Cortical thickness measured from MRI in the YAC128 mouse model of Huntington's disease. NeuroImage, 2008, 41, 243-251.	2.1	115
170	Longitudinal neuroanatomical changes determined by deformation-based morphometry in a mouse model of Alzheimer's disease. NeuroImage, 2008, 42, 19-27.	2.1	134
171	Fetal growth restriction triggered by polycyclic aromatic hydrocarbons is associated with altered placental vasculature and AhR-dependent changes in cell death. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E519-E530.	1.8	67
172	Starting early. Neurology, 2008, 70, 1065-1066.	1.5	2
173	Mechanics of Individual-Specific Corneoscleral Shell Models. , 2008, , .		0
174	Resolution improvement in emission optical projection tomography. Physics in Medicine and Biology, 2007, 52, 2775-2790.	1.6	95
175	Behavioral Phenotypes of Disc1 Missense Mutations in Mice. Neuron, 2007, 54, 387-402.	3.8	499
176	Three-dimensional cerebral vasculature of the CBA mouse brain: A magnetic resonance imaging and micro computed tomography study. NeuroImage, 2007, 35, 1409-1423.	2.1	237
177	MR technology for biological studies in mice. NMR in Biomedicine, 2007, 20, 291-303.	1.6	40
178	Mouse behavioral mutants have neuroimaging abnormalities. Human Brain Mapping, 2007, 28, 567-575.	1.9	44
179	Forward genetic screen of mouse reveals dominant missense mutation in the P/Q-type voltage-dependent calcium channel, CACNA1A. Genes, Brain and Behavior, 2007, 6, 717-727.	1.1	41
180	3D Visualisation and Quantification by Microcomputed Tomography of Late Gestational Changes in the Arterial and Venous Feto-Placental Vasculature of the Mouse. Placenta, 2007, 28, 833-840.	0.7	62

#	ARTICLE	IF	CITATIONS
181	Neuroanatomical differences between mouse strains as shown by high-resolution 3D MRI. <i>NeuroImage</i> , 2006, 29, 99-105.	2.1	119
182	Axonal injury in the cerebral normal-appearing white matter of patients with multiple sclerosis is related to concurrent demyelination in lesions but not to concurrent demyelination in normal-appearing white matter. <i>NeuroImage</i> , 2006, 29, 637-642.	2.1	59
183	Anatomical phenotyping in the brain and skull of a mutant mouse by magnetic resonance imaging and computed tomography. <i>Physiological Genomics</i> , 2006, 24, 154-162.	1.0	106
184	Presentation of 3D isotropic imaging data for optimal viewing. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1371-1374.	1.9	5
185	Comparing microsphere deposition and flow modeling in 3D vascular trees. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2136-H2141.	1.5	13
186	Embryonic and Neonatal Phenotyping of Genetically Engineered Mice. <i>ILAR Journal</i> , 2006, 47, 103-117.	1.8	69
187	Magnetic resonance imaging for detection and analysis of mouse phenotypes. <i>NMR in Biomedicine</i> , 2005, 18, 447-468.	1.6	65
188	The role of edema and demyelination in chronic T1 black holes: A quantitative magnetization transfer study. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 103-110.	1.9	55
189	Fast spin-echo for multiple mouse magnetic resonance phenotyping. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 532-537.	1.9	39
190	Correction of artefacts in optical projection tomography. <i>Physics in Medicine and Biology</i> , 2005, 50, 4645-4665.	1.6	99
191	A Cja1 missense mutation in a mouse model of oculodentodigital dysplasia. <i>Development (Cambridge)</i> , 2005, 132, 4375-4386.	1.2	211
192	Disease phenotyping: structural and functional readouts. , 2005, 62, 151-184.		3
193	MicroCT scanner performance and considerations for vascular specimen imaging. <i>Medical Physics</i> , 2004, 31, 305-313.	1.6	115
194	Regional variations in normal brain shown by quantitative magnetization transfer imaging. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 299-303.	1.9	90
195	Angiotensin-1 Causes Reversible Degradation of the Portal Microcirculation in Mice. <i>American Journal of Pathology</i> , 2004, 165, 889-899.	1.9	45
196	Analysis of microvasculature in whole kidney specimens using micro-CT. , 2004, , .		8
197	Deformation Based Representation of Groupwise Average and Variability. <i>Lecture Notes in Computer Science</i> , 2004, , 615-622.	1.0	10
198	Quantitative T2 in the occipital lobe: The role of the CPMG refocusing rate. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 302-309.	1.9	18

#	ARTICLE	IF	CITATIONS
199	High-Resolution Longitudinal Screening with Magnetic Resonance Imaging in a Murine Brain Cancer Model. <i>Neoplasia</i> , 2003, 5, 546-554.	2.3	34
200	Magnetization Transfer Ratio in Mild Cognitive Impairment and Dementia of Alzheimer's Type. <i>NeuroImage</i> , 2002, 15, 604-610.	2.1	95
201	Regional magnetization transfer ratio changes in mild cognitive impairment. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 143-148.	1.9	61
202	Evaluation of six algorithms for correcting intensity non-uniformity effects in MRI volumes. <i>NeuroImage</i> , 2001, 13, 237.	2.1	0
203	Qualitative and Quantitative Evaluation of Six Algorithms for Correcting Intensity Nonuniformity Effects. <i>NeuroImage</i> , 2001, 13, 931-943.	2.1	152
204	Quantitative imaging of magnetization transfer exchange and relaxation properties in vivo using MRI. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 923-931.	1.9	353
205	Correction for B1 and B0 variations in quantitative T2 measurements using MRI. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 589-593.	1.9	84
206	Quantitative Interpretation of Magnetization Transfer in Spoiled Gradient Echo MRI Sequences. <i>Journal of Magnetic Resonance</i> , 2000, 145, 24-36.	1.2	169
207	Correction for B1 and B0 variations in quantitative T2 measurements using MRI. , 2000, 43, 589.		1
208	Standing-wave and RF penetration artifacts caused by elliptic geometry: an electrodynamic analysis of MRI. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 653-662.	5.4	174
209	A nonparametric method for automatic correction of intensity nonuniformity in MRI data. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 87-97.	5.4	4,181
210	Design and construction of a realistic digital brain phantom. <i>IEEE Transactions on Medical Imaging</i> , 1998, 17, 463-468.	5.4	1,506
211	Understanding intensity non-uniformity in MRI. <i>Lecture Notes in Computer Science</i> , 1998, , 614-622.	1.0	21
212	A comparison of retrospective intensity non-uniformity correction methods for MRI. <i>Lecture Notes in Computer Science</i> , 1997, , 459-464.	1.0	35
213	<title>Monte Carlo simulation in SPECT: a comparison of two approaches</title>. , 1994, , .		2