

# Mikko I Kettunen

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

9,734  
citations

41344

49  
h-index

36028

97  
g-index

120  
all docs

120  
docs citations

120  
times ranked

10739  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Metabolism of hyperpolarised [ $^{13}\text{C}$ ]pyruvate in awake and anaesthetised rat brains. <i>NMR in Biomedicine</i> , 2022, 35, e4635.   | 2.8  | 7         |
| 2  | Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 13.8 | 11        |
| 3  | Data-Driven Regularization Parameter Selection in Dynamic MRI. <i>Journal of Imaging</i> , 2021, 7, 38.  | 3.0  | 1         |
| 4  | Alcohol Co-Administration Changes Mephedrone-Induced Alterations of Neuronal Activity. <i>Frontiers in Pharmacology</i> , 2021, 12, 679759.  | 3.5  | 1         |
| 5  | Inflammatory reaction in the retina after focal non-convulsive status epilepticus in mice investigated with high resolution magnetic resonance and diffusion tensor imaging. <i>Epilepsy Research</i> , 2021, 176, 106730.                       | 1.6  | 1         |
| 6  | Detection of lentiviral suicide gene therapy in C6 rat glioma using hyperpolarised [ $^{13}\text{C}$ ]pyruvate. <i>NMR in Biomedicine</i> , 2020, 33, e4250.   | 2.8  | 3         |
| 7  | Temporal Huber Regularization for DCE-MRI. <i>Journal of Mathematical Imaging and Vision</i> , 2020, 62, 1334-1346.  | 1.3  | 4         |
| 8  | Cyclodextrin-Based Organic Radical Contrast Agents for <i>in vivo</i> Imaging of Gliomas. <i>ChemPlusChem</i> , 2020, 85, 1171-1178.   | 2.8  | 3         |
| 9  | Hyperpolarized MRI for Studying Tumor Metabolism. <i>Methods in Molecular Biology</i> , 2019, 1928, 409-426.   | 0.9  | 0         |
| 10 | Assessment of the Relaxation-Enhancing Properties of a Nitroxide-Based Contrast Agent TEEPO-Glc with <i>In Vivo</i> Magnetic Resonance Imaging. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-8.                                   | 0.8  | 5         |
| 11 | Designed inorganic porous nanovector with controlled release and MRI features for safe administration of doxorubicin. <i>International Journal of Pharmaceutics</i> , 2019, 554, 327-336.  | 5.2  | 12        |
| 12 | Loss of NRF-2 and PGC-1 $\beta$ genes leads to retinal pigment epithelium damage resembling dry age-related macular degeneration. <i>Redox Biology</i> , 2019, 20, 1-12.   | 9.0  | 117       |
| 13 | Analysis of $^{13}\text{C}$ and $^{14}\text{C}$ labeling in pyruvate and lactate in tumor and blood of lymphoma-bearing mice injected with $^{13}\text{C}$ - and $^{14}\text{C}$ -labeled pyruvate. <i>NMR in Biomedicine</i> , 2018, 31, e3901. | 2.8  | 23        |
| 14 | State Estimation with Structural Priors in fMRI. <i>Journal of Mathematical Imaging and Vision</i> , 2018, 60, 174-188.  | 1.3  | 5         |
| 15 | Cull(atm) Attenuates Neuroinflammation. <i>Frontiers in Neuroscience</i> , 2018, 12, 668.  | 2.8  | 26        |
| 16 | State estimation in dynamic MRI. , 2018, , .   |      | 0         |
| 17 | Dynamic MRI reconstruction from undersampled data with an anatomical prescan. <i>Inverse Problems</i> , 2018, 34, 074001.  | 2.0  | 16        |
| 18 | Efficient penetration of ceric ammonium nitrate oxidant-stabilized gamma-maghemite nanoparticles through the oval and round windows into the rat inner ear as demonstrated by MRI. , 2017, 105, 1883-1891.                                       |      | 18        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Assessing Oxidative Stress in Tumors by Measuring the Rate of Hyperpolarized [1- <sup>13</sup> C]Dehydroascorbic Acid Reduction Using <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Journal of Biological Chemistry</i> , 2017, 292, 1737-1748.                        | 3.4  | 32        |
| 20 | Behavioral and stereological characterization of <i>Hdc</i> KO mice: Relation to Tourette syndrome. <i>Journal of Comparative Neurology</i> , 2017, 525, 3476-3487.  | 1.6  | 14        |
| 21 | Analysis of heterogeneity in T2-weighted MR images can differentiate pseudoprogression from progression in glioblastoma. <i>PLoS ONE</i> , 2017, 12, e0176528.   | 2.5  | 34        |
| 22 | Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1286-1290.  | 13.8 | 26        |
| 23 | Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2016, 128, 1308-1312.   | 2.0  | 8         |
| 24 | Abstract: Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging ( <i>Angew. Chem.</i> 4/2016). <i>Angewandte Chemie</i> , 2016, 128, 1592-1592.   | 2.0  | 0         |
| 25 | <sup>13</sup> C magnetic resonance spectroscopy measurements with hyperpolarized [ <sup>13</sup> C] pyruvate can be used to detect the expression of transgenic pyruvate decarboxylase activity in vivo. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 391-401.          | 3.0  | 8         |
| 26 | Tailored Dual PEGylation of Inorganic Porous Nanocarriers for Extremely Long Blood Circulation in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32723-32731.  | 8.0  | 39        |
| 27 | Implantable RF-coil with multiple electrodes for long-term EEG-fMRI monitoring in rodents. <i>Journal of Neuroscience Methods</i> , 2016, 274, 154-163.  | 2.5  | 15        |
| 28 | Effects of fasting on serial measurements of hyperpolarized [ <sup>13</sup> C]pyruvate metabolism in tumors. <i>NMR in Biomedicine</i> , 2016, 29, 1048-1055.  | 2.8  | 18        |
| 29 | Development of <i>Timd2</i> as a reporter gene for MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1697-1707.   | 3.0  | 26        |
| 30 | MRI with hyperpolarised [ <sup>13</sup> C]pyruvate detects advanced pancreatic preneoplasia prior to invasive disease in a mouse model. <i>Gut</i> , 2016, 65, 465-475.  | 12.1 | 71        |
| 31 | <sup>13</sup> C magnetic resonance spectroscopic imaging of hyperpolarized [ <sup>13</sup> C, U- <sup>2</sup> H <sub>5</sub> ] ethanol oxidation can be used to assess aldehyde dehydrogenase activity in vivo. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1733-1740. | 3.0  | 21        |
| 32 | Detection of transgene expression using hyperpolarized <sup>13</sup> C urea and diffusion-weighted magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1401-1406.   | 3.0  | 31        |
| 33 | Carbonic Anhydrase Activity Monitored <i>In Vivo</i> by Hyperpolarized <sup>13</sup> C-Magnetic Resonance Spectroscopy Demonstrates Its Importance for pH Regulation in Tumors. <i>Cancer Research</i> , 2015, 75, 4109-4118.  | 0.9  | 40        |
| 34 | Hyperpolarized [U- <sup>2</sup> H, U- <sup>13</sup> C]Glucose reports on glycolytic and pentose phosphate pathway activity in EL4 tumors and glycolytic activity in yeast cells. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1543-1547.                                | 3.0  | 38        |
| 35 | Amplification of TRIM44: Pairing a Prognostic Target With Potential Therapeutic Strategy. <i>Journal of the National Cancer Institute</i> , 2014, 106, .   | 6.3  | 38        |
| 36 | Quantitation of a spin polarization-induced nuclear Overhauser effect (SPINOE) between a hyperpolarized <sup>13</sup> C-labeled cell metabolite and water protons. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 182-186.   | 0.8  | 13        |

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|----|--|------|-----------|
| 37 | Analysis of image heterogeneity using 2D Minkowski functionals detects tumor responses to treatment. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 402-410.  | 3.0  | 46        |
| 38 | In vivo single-shot <sup>13</sup> C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. <i>Journal of Magnetic Resonance</i> , 2014, 240, 8-15.  | 2.1  | 38        |
| 39 | Dual-modality gene reporter for in vivo imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 415-420.  | 7.1  | 91        |
| 40 | Magnetic resonance imaging of tumor glycolysis using hyperpolarized <sup>13</sup> C-labeled glucose. <i>Nature Medicine</i> , 2014, 20, 93-97.   | 30.7 | 298       |
| 41 | Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. <i>NMR in Biomedicine</i> , 2013, 26, 1696-1704.   | 2.8  | 54        |
| 42 | Spin echo measurements of the extravasation and tumor cell uptake of hyperpolarized [ <sup>13</sup> C]lactate and [ <sup>13</sup> C]pyruvate. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1200-1209.   | 3.0  | 45        |
| 43 | Magnetic resonance imaging with hyperpolarized [1,4- <sup>13</sup> C <sub>2</sub> ]fumarate allows detection of early renal acute tubular necrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13374-13379. | 7.1  | 99        |
| 44 | Hyperpolarized <sup>13</sup> C Spectroscopy Detects Early Changes in Tumor Vasculature and Metabolism after VEGF Neutralization. <i>Cancer Research</i> , 2012, 72, 854-864.   | 0.9  | 73        |
| 45 | Direct Enhancement of Nuclear Singlet Order by Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2012, 134, 7668-7671.   | 13.7 | 94        |
| 46 | Probing Lactate Dehydrogenase Activity in Tumors by Measuring Hydrogen/Deuterium Exchange in Hyperpolarized [ <sup>13</sup> C,U- <sup>2</sup> H]Lactate. <i>Journal of the American Chemical Society</i> , 2012, 134, 4969-4977.                                     | 13.7 | 49        |
| 47 | Hyperpolarized [ <sup>13</sup> C]-Ascorbic and Dehydroascorbic Acid: Vitamin C as a Probe for Imaging Redox Status in Vivo. <i>Journal of the American Chemical Society</i> , 2011, 133, 11795-11801.  | 13.7 | 177       |
| 48 | Disruption of mouse Slx4, a regulator of structure-specific nucleases, phenocopies Fanconi anemia. <i>Nature Genetics</i> , 2011, 43, 147-152.   | 21.4 | 182       |
| 49 | Detecting response of rat C6 glioma tumors to radiotherapy using hyperpolarized [ <sup>13</sup> C]pyruvate and <sup>13</sup> C magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 557-563.                                  | 3.0  | 152       |
| 50 | Detection of tumor glutamate metabolism in vivo using <sup>13</sup> C magnetic resonance spectroscopy and hyperpolarized [ <sup>13</sup> C]glutamate. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 18-23.   | 3.0  | 55        |
| 51 | Tumor imaging using hyperpolarized <sup>13</sup> C magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 505-519.   | 3.0  | 229       |
| 52 | Imaging pH with hyperpolarized <sup>13</sup> C. <i>NMR in Biomedicine</i> , 2011, 24, 1006-1015.   | 2.8  | 93        |
| 53 | Kinetic Modeling of Hyperpolarized <sup>13</sup> C Label Exchange between Pyruvate and Lactate in Tumor Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 24572-24580.  | 3.4  | 133       |
| 54 | Hyperpolarized <sup>13</sup> C MRI and PET: In Vivo Tumor Biochemistry. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1333-1336.  | 5.0  | 52        |

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|----|---|------|-----------|
| 55 | Magnetization transfer measurements of exchange between hyperpolarized [ <sup>13</sup> C]pyruvate and [ <sup>13</sup> C]lactate in a murine lymphoma. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 872-880.  | 3.0  | 107       |
| 56 | Detecting treatment response in a model of human breast adenocarcinoma using hyperpolarised [ <sup>13</sup> C]pyruvate and [ <sup>14</sup> C]fumarate. <i>British Journal of Cancer</i> , 2010, 103, 1400-1406.   | 6.4  | 124       |
| 57 | Detection of Tumor Response to a Vascular Disrupting Agent by Hyperpolarized <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 3278-3288.  | 4.1  | 66        |
| 58 | Production of hyperpolarized [ <sup>14</sup> C]malate from [ <sup>13</sup> C]fumarate is a marker of cell necrosis and treatment response in tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19801-19806. | 7.1  | 328       |
| 59 | Characterization of image heterogeneity using 2D Minkowski functionals increases the sensitivity of detection of a targeted MRI contrast agent. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1218-1224.  | 3.0  | 21        |
| 60 | Biomedical applications of hyperpolarized <sup>13</sup> C magnetic resonance imaging. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 285-295.   | 7.5  | 121       |
| 61 | A Comparison between Radiolabeled Fluorodeoxyglucose Uptake and Hyperpolarized <sup>13</sup> C-Labeled Pyruvate Utilization as Methods for Detecting Tumor Response to Treatment. <i>Neoplasia</i> , 2009, 11, 574-IN11.  | 5.3  | 104       |
| 62 | <sup>13</sup> C MR spectroscopy measurements of glutaminase activity in human hepatocellular carcinoma cells using hyperpolarized <sup>13</sup> C-labeled glutamine. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 253-257.                                       | 3.0  | 148       |
| 63 | Magnetic resonance imaging of pH in vivo using hyperpolarized <sup>13</sup> C-labelled bicarbonate. <i>Nature</i> , 2008, 453, 940-943.   | 27.8 | 796       |
| 64 | Detection of Cell Death in Tumors by Using MR Imaging and a Gadolinium-based Targeted Contrast Agent. <i>Radiology</i> , 2008, 246, 854-862.  | 7.3  | 78        |
| 65 | Tumor Gene Therapy: Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. , 2008, , 39-53.  |      | 0         |
| 66 | Enhanced Polyamine Catabolism Alters Homeostatic Control of White Adipose Tissue Mass, Energy Expenditure, and Glucose Metabolism. <i>Molecular and Cellular Biology</i> , 2007, 27, 4953-4967.   | 2.3  | 120       |
| 67 | Low Spin-Lock Field T1 Relaxation in the Rotating Frame as a Sensitive MR Imaging Marker for Gene Therapy Treatment Response in Rat Glioma <sup>1</sup> . <i>Radiology</i> , 2007, 243, 796-803.  | 7.3  | 32        |
| 68 | Diazepam binding inhibitor overexpression in mice causes hydrocephalus, decreases plasticity in excitatory synapses and impairs hippocampus-dependent learning. <i>Molecular and Cellular Neurosciences</i> , 2007, 34, 199-208.                                      | 2.2  | 20        |
| 69 | A Paramagnetic Nanoprobe To Detect Tumor Cell Death Using Magnetic Resonance Imaging. <i>Nano Letters</i> , 2007, 7, 1419-1423.   | 9.1  | 29        |
| 70 | Detecting tumor response to treatment using hyperpolarized <sup>13</sup> C magnetic resonance imaging and spectroscopy. <i>Nature Medicine</i> , 2007, 13, 1382-1387.   | 30.7 | 825       |
| 71 | Molecular Imaging of Apoptosis. , 2007, , 183-198.  |      | 0         |
| 72 | Magnetic resonance imaging of functional Schwann cell transplants labelled with magnetic microspheres. <i>NeuroImage</i> , 2006, 31, 172-180.   | 4.2  | 37        |

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|----|---|-----|-----------|
| 73 | Status Epilepticus in 12-day-old Rats Leads to Temporal Lobe Neurodegeneration and Volume Reduction: A Histologic and MRI Study. <i>Epilepsia</i> , 2006, 47, 479-488.  | 5.1 | 74        |
| 74 | Metabolic Consequences of p300 Gene Deletion in Human Colon Cancer Cells. <i>Cancer Research</i> , 2006, 66, 7606-7614.   | 0.9 | 27        |
| 75 | Apoptosis detection using magnetic resonance imaging and spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2005, 47, 175-185.  | 7.5 | 31        |
| 76 | Minocycline Protects against Permanent Cerebral Ischemia in Wild Type but Not in Matrix Metalloprotease-9-Deficient Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 460-467.   | 4.3 | 115       |
| 77 | Long-term protective effect of atorvastatin in permanent focal cerebral ischemia. <i>Brain Research</i> , 2005, 1052, 174-179.  | 2.2 | 40        |
| 78 | <sup>1</sup> H MRS-visible lipids accumulate during apoptosis of lymphoma cells in vitro and in vivo. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 43-50.  | 3.0 | 65        |
| 79 | Monitoring T-lymphocyte trafficking in tumors undergoing immune rejection. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1473-1479.   | 3.0 | 35        |
| 80 | Dispersion of cerebral on-resonance T <sub>1</sub> in the rotating frame (T <sub>1ρ</sub> ) in global ischaemia. <i>Applied Magnetic Resonance</i> , 2005, 29, 89-106.  | 1.2 | 8         |
| 81 | Tumour Gene Therapy Monitoring Using Magnetic Resonance Imaging and Spectroscopy. <i>Current Gene Therapy</i> , 2005, 5, 685-696.   | 2.0 | 11        |
| 82 | The Link Between Nutritional Status and Insulin Sensitivity Is Dependent on the Adipocyte-Specific Peroxisome Proliferator-Activated Receptor- $\alpha$ Isoform. <i>Diabetes</i> , 2005, 54, 1706-1716.   | 0.6 | 157       |
| 83 | Structurally altered basement membranes and hydrocephalus in a type XVIII collagen deficient mouse line. <i>Human Molecular Genetics</i> , 2004, 13, 2089-2099.   | 2.9 | 121       |
| 84 | Progression of Brain Damage after Status Epilepticus and Its Association with Epileptogenesis: A Quantitative MRI Study in a Rat Model of Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2004, 45, 1024-1034.   | 5.1 | 132       |
| 85 | Water diffusion in a rat glioma during ganciclovir-thymidine kinase gene therapy-induced programmed cell death in vivo: Correlation with cell density. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 389-396.  | 3.4 | 57        |
| 86 | B <sub>0</sub> dependence of the on-resonance longitudinal relaxation time in the rotating frame (T <sub>1ρ</sub> ) in protein phantoms and rat brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 4-8.   | 3.0 | 26        |
| 87 | Acute cerebral ischemia in rats studied by Carr-Purcell spin-echo magnetic resonance imaging: Assessment of blood oxygenation level-dependent and tissue effects on the transverse relaxation. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1138-1146.       | 3.0 | 14        |
| 88 | Quantitative <sup>1</sup> H NMR spectroscopy of rat cerebral metabolites in vivo: Effects of global ischemia. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 875-880.  | 3.0 | 13        |
| 89 | Detection of Apoptosis Using the C2A Domain of Synaptotagmin I. <i>Bioconjugate Chemistry</i> , 2004, 15, 983-987.  | 3.6 | 72        |
| 90 | Superparamagnetic Iron Oxide-Labeled Schwann Cells and Olfactory Ensheathing Cells Can Be Traced In Vivo by Magnetic Resonance Imaging and Retain Functional Properties after Transplantation into the CNS. <i>Journal of Neuroscience</i> , 2004, 24, 9799-9810. | 3.6 | 125       |

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|-----|---|-----|-----------|
| 91  | Effects of hematocrit and oxygen saturation level on blood spin-lattice relaxation. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 568-571.  | 3.0 | 128       |
| 92  | Fibroblast growth factor $\beta$ 4 induces vascular permeability, angiogenesis, and arteriogenesis in a rabbit hind limb ischemia model. <i>FASEB Journal</i> , 2003, 17, 100-102.  | 0.5 | 136       |
| 93  | Metabolite Changes in BT4C Rat Gliomas Undergoing Ganciclovir-Thymidine Kinase Gene Therapy-induced Programmed Cell Death as Studied by $^1\text{H}$ NMR Spectroscopy in Vivo, ex Vivo, and in Vitro. <i>Journal of Biological Chemistry</i> , 2003, 278, 45915-45923.                                | 3.4 | 66        |
| 94  | VEGF-D Is the Strongest Angiogenic and Lymphangiogenic Effector Among VEGFs Delivered Into Skeletal Muscle via Adenoviruses. <i>Circulation Research</i> , 2003, 92, 1098-1106.   | 4.5 | 374       |
| 95  | Assignment of $^1\text{H}$ nuclear magnetic resonance visible polyunsaturated fatty acids in BT4C gliomas undergoing ganciclovir-thymidine kinase gene therapy-induced programmed cell death. <i>Cancer Research</i> , 2003, 63, 3195-201.  | 0.9 | 111       |
| 96  | Novel magnetic resonance imaging contrasts for monitoring response to gene therapy in rat glioma. <i>Cancer Research</i> , 2003, 63, 7571-4.  | 0.9 | 25        |
| 97  | $\beta$ 2-Amyloid precursor protein transgenic mice that harbor diffuse $\text{A}\beta$ 2 deposits but do not form plaques show increased ischemic vulnerability: Role of inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1610-1615. | 7.1 | 151       |
| 98  | Expression of Vascular Endothelial Growth Factor and Vascular Endothelial Growth Factor Receptor-2 (KDR/Flk-1) in Ischemic Skeletal Muscle and Its Regeneration. <i>American Journal of Pathology</i> , 2002, 160, 1393-1403.   | 3.8 | 168       |
| 99  | Blood NMR relaxation in the rotating frame: mechanistic implications. <i>Archives of Biochemistry and Biophysics</i> , 2002, 405, 78-86.  | 3.0 | 11        |
| 100 | Expression of Human Apolipoprotein E Downregulates Amyloid Precursor Protein $\beta$ 4-Induced Ischemic Susceptibility. <i>Stroke</i> , 2002, 33, 1905-1910.  | 2.0 | 12        |
| 101 | Effects of intracellular pH, blood, and tissue oxygen tension on $T_{1\rho}$ relaxation in rat brain. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 470-477.  | 3.0 | 70        |
| 102 | The combination of HSV-tk and endostatin gene therapy eradicates orthotopic human renal cell carcinomas in nude mice. <i>Cancer Gene Therapy</i> , 2002, 9, 908-916.  | 4.6 | 21        |
| 103 | Quantitative Assessment of the Balance between Oxygen Delivery and Consumption in the Rat Brain after Transient Ischemia with T2-BOLD Magnetic Resonance Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 262-270.   | 4.3 | 27        |
| 104 | Quantitative $T_{1\rho}$ and Magnetization Transfer Magnetic Resonance Imaging of Acute Cerebral Ischemia in the Rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 547-558.   | 4.3 | 40        |
| 105 | Proton Exchange as a Relaxation Mechanism for $T_1$ in the Rotating Frame in Native and Immobilized Protein Solutions. <i>Biochemical and Biophysical Research Communications</i> , 2001, 289, 813-818.   | 2.1 | 84        |
| 106 | Use of spin echo T2 BOLD in assessment of cerebral misery perfusion at 1.5 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 32-39.  | 2.0 | 30        |
| 107 | Use of spin echo T2 BOLD in assessment of cerebral misery perfusion at 1.5 T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 12, 32-39.  | 2.0 | 2         |
| 108 | Cerebral $T_{1\rho}$ relaxation time increases immediately upon global ischemia in the rat independently of blood glucose and anoxic depolarization. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 565-572.   | 3.0 | 45        |



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|-----|---|------|-----------|
| 109 | Inhibition of lymphangiogenesis with resulting lymphedema in transgenic mice expressing soluble VEGF receptor-3. <i>Nature Medicine</i> , 2001, 7, 199-205.   | 30.7 | 687       |
| 110 | HSV-tk gene therapy for human renal cell carcinoma in nude mice. <i>Cancer Gene Therapy</i> , 2001, 8, 529-536.   | 4.6  | 27        |
| 111 | A model for gene therapy of human hereditary lymphedema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12677-12682.  | 7.1  | 538       |
| 112 | Interrelations of T1 and diffusion of water in acute cerebral ischemia of the rat. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 833-839.   | 3.0  | 40        |
| 113 | Graded Reduction of Cerebral Blood Flow in Rat as Detected by the Nuclear Magnetic Resonance Relaxation Time $T_2$ : A Theoretical and Experimental Approach. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 316-326. | 4.3  | 54        |
| 114 | Early Detection of Irreversible Cerebral Ischemia in the Rat Using Dispersion of the Magnetic Resonance Imaging Relaxation Time, T1 $\rho$ . <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 1457-1466.                | 4.3  | 95        |
| 115 | Monitoring the CNS Pathology in Aspartylglucosaminuria Mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 1154-1163.   | 1.7  | 15        |
| 116 | Immune-modulating and anti-vascular activities of two xanthenone acetic acid analogues: A comparative study to DMXAA. <i>International Journal of Oncology</i> , 1992, 34, 273.   | 3.3  | 3         |
| 117 | Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. <i>Angewandte Chemie</i> , 0, , .   | 2.0  | 1         |
| 118 | State Estimation of Time-Varying MRI with Radial Golden Angle Sampling. <i>Journal of Mathematical Imaging and Vision</i> , 0, , .  | 1.3  | 0         |