

# Ralph Hurd

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,892  
citations

430874

18  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2210  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Evidence of elevated glutamate in multiple sclerosis using magnetic resonance spectroscopy at 3 T. <i>Brain</i> , 2005, 128, 1016-1025.  | 7.6 | 416       |
| 2  | Automated single-voxel proton MRS: Technical development and multisite verification. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 365-373.  | 3.0 | 243       |
| 3  | Very selective suppression pulses for clinical MRSI studies of brain and prostate cancer. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 23-33.   | 3.0 | 228       |
| 4  | Measurement of brain glutamate using TE-averaged PRESS at 3T. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 435-440.   | 3.0 | 216       |
| 5  | Comparative analysis of NMR and NIRS measurements of intracellular P O 2 in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 276, R1682-R1690.     | 1.8 | 106       |
| 6  | Myoglobin desaturation with exercise intensity in human gastrocnemius muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R173-R180.                            | 1.8 | 99        |
| 7  | TE-Averaged two-dimensional proton spectroscopic imaging of glutamate at 3 T. <i>NeuroImage</i> , 2006, 30, 1171-1178.   | 4.2 | 67        |
| 8  | Control of respiration and bioenergetics during muscle contraction. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C730-C738.  | 4.6 | 56        |
| 9  | Blood flow and metabolic regulation in seal muscle during apnea. <i>Journal of Experimental Biology</i> , 2008, 211, 3323-3332.  | 1.7 | 54        |
| 10 | Multi-channel metabolic imaging, with SENSE reconstruction, of hyperpolarized [1- <sup>13</sup> C] pyruvate in a live rat at 3.0tesla on a clinical MR scanner. <i>Journal of Magnetic Resonance</i> , 2011, 208, 171-177. | 2.1 | 51        |
| 11 | A comparative study of myo-inositol quantification using lmodel at 1.5 T and 3.0 T with 3 D 1H proton spectroscopic imaging of the human brain. <i>Magnetic Resonance Imaging</i> , 2004, 22, 523-528.                     | 1.8 | 49        |
| 12 | Assessing inflammatory liver injury in an acute CCl <sub>4</sub> model using dynamic 3D metabolic imaging of hyperpolarized [1- <sup>13</sup> C]pyruvate. <i>NMR in Biomedicine</i> , 2015, 28, 1671-1677.                 | 2.8 | 48        |
| 13 | Quantification of <i>in vivo</i> metabolic kinetics of hyperpolarized pyruvate in rat kidneys using dynamic <sup>13</sup> C MRSI. <i>NMR in Biomedicine</i> , 2011, 24, 997-1005.  | 2.8 | 46        |
| 14 | ShortTE phosphorus spectroscopy using a spin-echo pulse. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 98-103.   | 3.0 | 38        |
| 15 | Effects of isoflurane anesthesia on hyperpolarized <sup>13</sup> C metabolic measurements in rat brain. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1117-1124.   | 3.0 | 38        |
| 16 | Dynamic metabolic imaging of hyperpolarized [ <sup>13</sup> C]pyruvate using spiral chemical shift imaging with alternating spectral band excitation. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 2051-2058.         | 3.0 | 34        |
| 17 | Detection of myoglobin desaturation in <i>Mirounga angustirostris</i> during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R267-R272.                      | 1.8 | 25        |
| 18 | Fast volumetric imaging of ethanol metabolism in rat liver with hyperpolarized [ <sup>13</sup> C]pyruvate. <i>NMR in Biomedicine</i> , 2012, 25, 993-999.  | 2.8 | 20        |

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|----|---|-----|-----------|
| 19 | The feasibility of assessing branched-chain amino acid metabolism in cellular models of prostate cancer with hyperpolarized [1-13C]-ketoisocaproate. <i>Magnetic Resonance Imaging</i> , 2014, 32, 791-795.                                       | 1.8 | 15        |
| 20 | <i>In vivo</i> measurement of aldehyde dehydrogenase activity in rat liver ethanol model using dynamic MRSI of hyperpolarized [ <sup>13</sup> C]pyruvate. <i>NMR in Biomedicine</i> , 2013, 26, 607-612.  | 2.8 | 14        |
| 21 | Association between Anterior Cingulate Neurochemical Concentration and Individual Differences in Hypnotizability. <i>Cerebral Cortex</i> , 2020, 30, 3644-3654.   | 2.9 | 13        |
| 22 | Reversed metabolic reprogramming as a measure of cancer treatment efficacy in rat C6 glioma model. <i>PLoS ONE</i> , 2019, 14, e0225313.  | 2.5 | 10        |
| 23 | Comparison of dynamic brain metabolism during antegrade cerebral perfusion versus deep hypothermic circulatory arrest using proton magnetic resonance spectroscopy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 160, e225-e227. | 0.8 | 5         |
| 24 | O <sub>2</sub> and Respiration in Exercising Human Muscle. <i>Advances in Experimental Medicine and Biology</i> , 2002, 475, 769-783.   | 1.6 | 1         |
| 25 | Evaluation of the clinical performance of automated proton magnetic resonance spectroscopy in children. <i>Academic Radiology</i> , 1994, 1, 46-50.   | 2.5 | 0         |