

Hari Hariharan

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,577
citations

159585

30
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

3123
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance imaging of glutamate. <i>Nature Medicine</i> , 2012, 18, 302-306.	30.7	544
2	In vivo mapping of brain myo-inositol. <i>NeuroImage</i> , 2011, 54, 2079-2085.	4.2	216
3	T2 quantitation of articular cartilage at 1.5 T. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 358-364.	3.4	196
4	CEST signal at 2 ppm (CEST@2ppm) from ^1H NMR spectral fitting correlates with creatine distribution in brain tumor. <i>NMR in Biomedicine</i> , 2015, 28, 1-8.	2.8	180
5	A technique for in vivo mapping of myocardial creatine kinase metabolism. <i>Nature Medicine</i> , 2014, 20, 209-214.	30.7	168
6	Exchange rates of creatine kinase metabolites: feasibility of imaging creatine by chemical exchange saturation transfer MRI. <i>NMR in Biomedicine</i> , 2012, 25, 1305-1309.	2.8	157
7	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. <i>Science Translational Medicine</i> , 2015, 7, 309ra161.	12.4	156
8	Chemical Exchange Saturation Transfer (CEST) Imaging: Description of Technique and Potential Clinical Applications. <i>Current Radiology Reports</i> , 2013, 1, 102-114.	1.4	140
9	Method for high-resolution imaging of creatine in vivo using chemical exchange saturation transfer. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 164-172.	3.0	138
10	Chemical exchange saturation transfer magnetic resonance imaging of human knee cartilage at 3 T and 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 588-594.	3.0	137
11	Imaging of glutamate neurotransmitter alterations in Alzheimer's disease. <i>NMR in Biomedicine</i> , 2013, 26, 386-391.	2.8	116
12	The Impact of Gabapentin Administration on Brain GABA and Glutamate Concentrations: A 7T ^1H -MRS Study. <i>Neuropsychopharmacology</i> , 2012, 37, 2764-2771.	5.4	113
13	On B_1 inhomogeneity correction of in vivo human brain glutamate chemical exchange saturation transfer contrast at 7T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 818-824.	3.0	79
14	Molecular magnetic resonance imaging in cancer. <i>Journal of Translational Medicine</i> , 2015, 13, 313.	4.4	79
15	In vivo chemical exchange saturation transfer imaging of creatine (CrCEST) in skeletal muscle at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 596-602.	3.4	77
16	Mapping glutamate in subcortical brain structures using high-resolution GluCEST MRI. <i>NMR in Biomedicine</i> , 2013, 26, 1278-1284.	2.8	73
17	Imaging of glutamate in the spinal cord using GluCEST. <i>NeuroImage</i> , 2013, 77, 262-267.	4.2	62
18	Lactate Chemical Exchange Saturation Transfer (LATEST) Imaging in vivo: A Biomarker for LDH Activity. <i>Scientific Reports</i> , 2016, 6, 19517.	3.3	62

#	ARTICLE	IF	CITATIONS
19	MICEST: A potential tool for non-invasive detection of molecular changes in Alzheimer's disease. <i>Journal of Neuroscience Methods</i> , 2013, 212, 87-93.	2.5	57
20	In vivo measurement of glutamate loss is associated with synapse loss in a mouse model of tauopathy. <i>NeuroImage</i> , 2014, 101, 185-192.	4.2	57
21	In vivo Magnetic Resonance Imaging of Tumor Protease Activity. <i>Scientific Reports</i> , 2014, 4, 6081.	3.3	57
22	Glutamate weighted imaging contrast in gliomas with 7T magnetic resonance imaging. <i>NeuroImage: Clinical</i> , 2019, 22, 101694.	2.7	50
23	Longitudinal imaging reveals subhippocampal dynamics in glutamate levels associated with histopathologic events in a mouse model of tauopathy and healthy mice. <i>Hippocampus</i> , 2017, 27, 285-302.	1.9	47
24	Creatine CEST MRI for Differentiating Gliomas with Different Degrees of Aggressiveness. <i>Molecular Imaging and Biology</i> , 2017, 19, 225-232.	2.6	45
25	High quality three-dimensional gqgCEST imaging of in vivo human knee cartilage at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1866-1873.	3.0	44
26	Mapping the alterations in glutamate with GluCEST MRI in a mouse model of dopamine deficiency. <i>Journal of Neurochemistry</i> , 2016, 139, 432-439.	3.9	43
27	High Resolution T1-Mapping of In Vivo Human Knee Cartilage at 7T. <i>PLoS ONE</i> , 2014, 9, e97486.	2.5	42
28	T1-MRI of healthy and fibrotic human livers at 1.5T. <i>Journal of Translational Medicine</i> , 2015, 13, 292.	4.4	42
29	In vivo GluCEST MRI: Reproducibility, background contribution and source of glutamate changes in the MPTP model of Parkinson's disease. <i>Scientific Reports</i> , 2018, 8, 2883.	3.3	38
30	Muscle oxidative phosphorylation quantitation using creatine chemical exchange saturation transfer (CrCEST) MRI in mitochondrial disorders. <i>JCI Insight</i> , 2016, 1, e88207.	5.0	38
31	Reproducibility of 2D-GluCEST in healthy human volunteers at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2033-2039.	3.0	32
32	Single-Voxel ¹ H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD ⁺) in humans at 7T using a 32-channel volume coil. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 806-814.	3.0	26
33	Evaluating the feasibility of creatine-weighted CEST MRI in human brain at 7 T using a Z-spectral fitting approach. <i>NMR in Biomedicine</i> , 2019, 32, e4176.	2.8	24
34	Lisdexamfetamine Effects on Executive Activation and Neurochemistry in Menopausal Women with Executive Function Difficulties. <i>Neuropsychopharmacology</i> , 2017, 42, 437-445.	5.4	23
35	Investigation of chemical exchange at intermediate exchange rates using a combination of chemical exchange saturation transfer (CEST) and spin-locking methods (CESTRho). <i>Magnetic Resonance in Medicine</i> , 2012, 68, 107-119.	3.0	22
36	Accelerating GluCEST imaging using deep learning for B ₀ correction. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1724-1733.	3.0	21

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37	Glutamate-Weighted Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Detects Glutaminase Inhibition in a Mouse Model of Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2018, 78, 5521-5526.	0.9	19
38	High Resolution Mapping of Modafinil Induced Changes in Glutamate Level in Rat Brain. <i>PLoS ONE</i> , 2014, 9, e103154.	2.5	17
39	Recovery kinetics of creatine in mild plantar flexion exercise using 3D creatine CEST imaging at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 802-817.	3.0	15
40	Implementation of two-dimensional ¹ H-COSY at 7 tesla: An investigation of reproducibility in human brain. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1319-1327.	3.4	14
41	Non-caloric sweetener provides magnetic resonance imaging contrast for cancer detection. <i>Journal of Translational Medicine</i> , 2017, 15, 119.	4.4	13
42	Perfusion has no effect on the <i>in vivo</i> CEST effect from Cr (CrCEST) in skeletal muscle. <i>NMR in Biomedicine</i> , 2017, 30, e3673.	2.8	12
43	Molecular imaging biomarkers for cell-based immunotherapies. <i>Journal of Translational Medicine</i> , 2017, 15, 140.	4.4	11
44	Glutamate-Weighted CEST Contrast After Removal of Magnetization Transfer Effect in Human Brain and Rat Brain with Tumor. <i>Molecular Imaging and Biology</i> , 2020, 22, 1087-1101.	2.6	11
45	Improved method for post-processing correction of <i>B₁</i> inhomogeneity in glutamate-weighted CEST images of the human brain. <i>NMR in Biomedicine</i> , 2021, 34, e4503.	2.8	11
46	T2 and T2* quantification using optimal B1 image reconstruction for multicoil arrays. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 278-281.	3.4	10
47	Characterization of viscosupplementation formulations using chemical exchange saturation transfer (ViscoCEST). <i>Journal of Translational Medicine</i> , 2016, 14, 92.	4.4	10
48	Glutaminase catalyzes reaction of Glutamate to GABA. <i>Biochemical and Biophysical Research Communications</i> , 2014, 448, 361-364.	2.1	7
49	Localized, gradient-reversed ultrafast ¹ H spectroscopy <i>in vivo</i> at 7T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1039-1046.	3.0	7
50	Sugar alcohol provides imaging contrast in cancer detection. <i>Scientific Reports</i> , 2019, 9, 11092.	3.3	7
51	Volumetric glutamate imaging (GluCEST) using 7T MRI can lateralize nonlesional temporal lobe epilepsy: A preliminary study. <i>Brain and Behavior</i> , 2021, 11, e02134.	2.2	7
52	In Vivo Metabolic Evaluation of Breast Tumor Mouse Xenografts for Predicting Aggressiveness Using the Hyperpolarized ¹³ C-NMR Technique. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 237-242.	1.6	3
53	Fully automated macromolecule suppressed single voxel glutamate spectroscopy (FAMOUS SVGS). <i>Journal of Translational Medicine</i> , 2016, 14, 220.	4.4	1
54	Coherence pathway analysis of J-coupled lipids and lactate and effective suppression of lipids upon the selective multiple quantum coherence lactate editing sequence. <i>Biomedical Physics and Engineering Express</i> , 2022, 8, 035004.	1.2	1

#	ARTICLE	IF	CITATIONS
55	Chapter 18 Creatine Chemical Exchange Saturation Transfer Imaging. , 2017, , 427-446.		0