Hari Hariharan

List of Publications by Year
in descending order

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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	Coherence pathway analysis of J-coupled lipids and lactate and effective suppression of lipids upon the selective multiple quantum coherence lactate editing sequence. Biomedical Physics and Engineering Express, 2022, 8, 035004.	1.2	1
2	Recovery kinetics of creatine in mild plantar flexion exercise using 3D creatine CEST imaging at 7 Tesla. Magnetic Resonance in Medicine, 2021, 85, 802-817.	3.0	15
3	Improved method for postâ€processing correction of B₁ inhomogeneity in glutamateâ€weighted CEST images of the human brain. NMR in Biomedicine, 2021, 34, e4503.	2.8	11
4	Volumetric glutamate imaging (GluCEST) using 7T MRI can lateralize nonlesional temporal lobe epilepsy: A preliminary study. Brain and Behavior, 2021, 11, e02134.	2.2	7
5	Singleâ€Voxel ¹H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD⁺) in humans at 7T using a 32â€channel volume coil. Magnetic Resonance in Medicine, 2020, 83, 806-814.	3.0	26
6	Glutamate-Weighted CEST Contrast After Removal of Magnetization Transfer Effect in Human Brain and Rat Brain with Tumor. Molecular Imaging and Biology, 2020, 22, 1087-1101.	2.6	11
7	Accelerating GluCEST imaging using deep learning for B₀ correction. Magnetic Resonance in Medicine, 2020, 84, 1724-1733.	3.0	21
8	Sugar alcohol provides imaging contrast in cancer detection. Scientific Reports, 2019, 9, 11092.	3.3	7
9	Evaluating the feasibility of creatineâ€weighted CEST MRI in human brain at 7 T using a Zâ€spectral fitting approach. NMR in Biomedicine, 2019, 32, e4176.	2.8	24
10	Glutamate weighted imaging contrast in gliomas with 7â€Tesla magnetic resonance imaging. NeuroImage: Clinical, 2019, 22, 101694.	2.7	50
11	In vivo GluCEST MRI: Reproducibility, background contribution and source of glutamate changes in the MPTP model of Parkinsonâ€™s disease. Scientific Reports, 2018, 8, 2883.	3.3	38
12	Reproducibility of 2<scp>D</scp><scp>G</scp>lu<scp>CEST</scp> in healthy human volunteers at 7 <scp>T</scp>. Magnetic Resonance in Medicine, 2018, 80, 2033-2039.	3.0	32
13	Glutamate-Weighted Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Detects Glutaminase Inhibition in a Mouse Model of Triple-Negative Breast Cancer. Cancer Research, 2018, 78, 5521-5526.	0.9	19
14	High quality threeâ€dimensional gagCEST imaging of in vivo human knee cartilage at 7 Tesla. Magnetic Resonance in Medicine, 2017, 77, 1866-1873.	3.0	44
15	Perfusion has no effect on the in vivo CEST effect from Cr (CrCEST) in skeletal muscle. NMR in Biomedicine, 2017, 30, e3673.	2.8	12
16	Longitudinal imaging reveals subhippocampal dynamics in glutamate levels associated with histopathologic events in a mouse model of tauopathy and healthy mice. Hippocampus, 2017, 27, 285-302.	1.9	47
17	Non-caloric sweetener provides magnetic resonance imaging contrast for cancer detection. Journal of Translational Medicine, 2017, 15, 119.	4.4	13
18	Molecular imaging biomarkers for cell-based immunotherapies. Journal of Translational Medicine, 2017, 15, 140.	4.4	11

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19	Creatine CEST MRI for Differentiating Gliomas with Different Degrees of Aggressiveness. Molecular Imaging and Biology, 2017, 19, 225-232.	2.6	45
20	Lisdexamfetamine Effects on Executive Activation and Neurochemistry in Menopausal Women with Executive Function Difficulties. Neuropsychopharmacology, 2017, 42, 437-445.	5.4	23
21	Chapter 18 Creatine Chemical Exchange Saturation Transfer Imaging. , 2017, , 427-446.		0
22	Fully automated macromolecule suppressed single voxel glutamate spectroscopy (FAMOUS SVGS). Journal of Translational Medicine, 2016, 14, 220.	4.4	1
23	Mapping the alterations in glutamate with Glu<scp>CEST MRI</scp> in a mouse model of dopamine deficiency. Journal of Neurochemistry, 2016, 139, 432-439.	3.9	43
24	Lactate Chemical Exchange Saturation Transfer (LATEST) Imaging in vivo: A Biomarker for LDH Activity. Scientific Reports, 2016, 6, 19517.	3.3	62
25	Localized, gradientâ€reversed ultrafast zâ€spectroscopy in vivo at 7T. Magnetic Resonance in Medicine, 2016, 76, 1039-1046.	3.0	7
26	Characterization of viscosupplementation formulations using chemical exchange saturation transfer (ViscoCEST). Journal of Translational Medicine, 2016, 14, 92.	4.4	10
27	Muscle oxidative phosphorylation quantitation using creatine chemical exchange saturation transfer (CrCEST) MRI in mitochondrial disorders. JCI Insight, 2016, 1, e88207.	5.0	38
28	CEST signal at 2â€‰ppm (CEST@2ppm) from Zâ€spectral fitting correlates with creatine distribution in brain tumor. NMR in Biomedicine, 2015, 28, 1-8.	2.8	180
29	T1Ï•MRI of healthy and fibrotic human livers at 1.5ÂT. Journal of Translational Medicine, 2015, 13, 292.	4.4	42
30	Molecular magnetic resonance imaging in cancer. Journal of Translational Medicine, 2015, 13, 313.	4.4	79
31	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. Science Translational Medicine, 2015, 7, 309ra161.	12.4	156
32	High Resolution T1Ï•Mapping of In Vivo Human Knee Cartilage at 7T. PLoS ONE, 2014, 9, e97486.	2.5	42
33	High Resolution Mapping of Modafinil Induced Changes in Glutamate Level in Rat Brain. PLoS ONE, 2014, 9, e103154.	2.5	17
34	In vivo chemical exchange saturation transfer imaging of creatine (CrCEST) in skeletal muscle at 3T. Journal of Magnetic Resonance Imaging, 2014, 40, 596-602.	3.4	77
35	Glutaminase catalyzes reaction of Glutamate to GABA. Biochemical and Biophysical Research Communications, 2014, 448, 361-364.	2.1	7
36	A technique for in vivo mapping of myocardial creatine kinase metabolism. Nature Medicine, 2014, 20, 209-214.	30.7	168

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37	In vivo measurement of glutamate loss is associated with synapse loss in a mouse model of tauopathy. NeuroImage, 2014, 101, 185-192.	4.2	57
38	Method for highâ€resolution imaging of creatine in vivo using chemical exchange saturation transfer. Magnetic Resonance in Medicine, 2014, 71, 164-172.	3.0	138
39	Implementation of twoâ€dimensional Lâ€COSY at 7 tesla: An investigation of reproducibility in human brain. Journal of Magnetic Resonance Imaging, 2014, 40, 1319-1327.	3.4	14
40	In vivo Magnetic Resonance Imaging of Tumor Protease Activity. Scientific Reports, 2014, 4, 6081.	3.3	57
41	On B₁ inhomogeneity correction of in vivo human brain glutamate chemical exchange saturation transfer contrast at 7T. Magnetic Resonance in Medicine, 2013, 69, 818-824.	3.0	79
42	Chemical Exchange Saturation Transfer (CEST) Imaging: Description of Technique and Potential Clinical Applications. Current Radiology Reports, 2013, 1, 102-114.	1.4	140
43	Imaging of glutamate neurotransmitter alterations in Alzheimer's disease. NMR in Biomedicine, 2013, 26, 386-391.	2.8	116
44	Imaging of glutamate in the spinal cord using GluCEST. NeuroImage, 2013, 77, 262-267.	4.2	62
45	MICEST: A potential tool for non-invasive detection of molecular changes in Alzheimer's disease. Journal of Neuroscience Methods, 2013, 212, 87-93.	2.5	57
46	Mapping glutamate in subcortical brain structures using highâ€resolution GluCEST MRI. NMR in Biomedicine, 2013, 26, 1278-1284.	2.8	73
47	In Vivo Metabolic Evaluation of Breast Tumor Mouse Xenografts for Predicting Aggressiveness Using the Hyperpolarized 13C-NMR Technique. Advances in Experimental Medicine and Biology, 2013, 789, 237-242.	1.6	3
48	Magnetic resonance imaging of glutamate. Nature Medicine, 2012, 18, 302-306.	30.7	544
49	The Impact of Gabapentin Administration on Brain GABA and Glutamate Concentrations: A 7T 1H-MRS Study. Neuropsychopharmacology, 2012, 37, 2764-2771.	5.4	113
50	Investigation of chemical exchange at intermediate exchange rates using a combination of chemical exchange saturation transfer (CEST) and spinâ€locking methods (CESTrho). Magnetic Resonance in Medicine, 2012, 68, 107-119.	3.0	22
51	Chemical exchange saturation transfer magnetic resonance imaging of human knee cartilage at 3 T and 7 T. Magnetic Resonance in Medicine, 2012, 68, 588-594.	3.0	137
52	Exchange rates of creatine kinase metabolites: feasibility of imaging creatine by chemical exchange saturation transfer MRI. NMR in Biomedicine, 2012, 25, 1305-1309.	2.8	157
53	In vivo mapping of brain myo-inositol. NeuroImage, 2011, 54, 2079-2085.	4.2	216
54	T2and T2* quantification using optimal B1image reconstruction for multicoil arrays. Journal of Magnetic Resonance Imaging, 2008, 28, 278-281.	3.4	10

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55	T2 quantitation of articular cartilage at 1.5 T. Journal of Magnetic Resonance Imaging, 2003, 17, 358-364.	3.4	196