Harish Poptani

List of Publications by Year
in descending order

120 papers	5,818 citations	87888 38 h-index	85541 71 g-index
123 all docs	123 docs citations	123 times ranked	7477 citing authors

#	Article	IF	Citations
1	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. Radiology, 2014, 270, 658-679.	7.3	524
2	Diffusion-Weighted Magnetic Resonance Imaging for Predicting and Detecting Early Response to Chemoradiation Therapy of Squamous Cell Carcinomas of the Head and Neck. Clinical Cancer Research, 2009, 15, 986-994.	7.0	363
3	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550.	3.0	280
4	Tongue Fat and its Relationship to Obstructive Sleep Apnea. Sleep, 2014, 37, 1639-1648.	1.1	268
5	1H MRS detects polyunsaturated fatty acid accumulation during gene therapy of glioma: Implications for the in vivo detection of apoptosis. Nature Medicine, 1999, 5, 1323-1327.	30.7	249
6	Intraaxial Brain Masses: MR Imagingâ€“based Diagnostic Strategyâ€”Initial Experience. Radiology, 2007, 243, 539-550.	7.3	207
7	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
8	Differentiation between glioblastomas and solitary brain metastases using diffusion tensor imaging. NeuroImage, 2009, 44, 653-660.	4.2	141
9	MRâ€visible lipids and the tumor microenvironment. NMR in Biomedicine, 2011, 24, 592-611.	2.8	134
10	Pretreatment Diffusion-Weighted and Dynamic Contrast-Enhanced MRI for Prediction of Local Treatment Response in Squamous Cell Carcinomas of the Head and Neck. American Journal of Roentgenology, 2013, 200, 35-43.	2.2	133
11	Differentiating Tumor Progression from Pseudoprogression in Patients with Glioblastomas Using Diffusion Tensor Imaging and Dynamic Susceptibility Contrast MRI. American Journal of Neuroradiology, 2016, 37, 28-36.	2.4	116
12	Role of In Vivo Proton Magnetic Resonance Spectroscopy in the Diagnosis and Management of Brain Abscesses. Neurosurgery, 1998, 42, 37-43.	1.1	103
13	Cystic intracranial mass lesions: Possible role of in vivo MR spectroscopy in its differential diagnosis. Magnetic Resonance Imaging, 1995, 13, 1019-1029.	1.8	100
14	Amyotrophic Lateral Sclerosis: Diffusion-Tensor and Chemical Shift MR Imaging at 3.0 T. Radiology, 2006, 239, 831-838.	7.3	95
15	Diffusion-weighted imaging in head and neck cancers. Future Oncology, 2009, 5, 959-975.	2.4	82
16	MR spectrsocopy of head and neck cancer. European Journal of Radiology, 2013, 82, 982-989.	2.6	82
17	Diagnostic assessment of brain tumours and non-neoplastic brain disorders in vivo using proton nuclear magnetic resonance spectroscopy and artificial neural networks. Journal of Cancer Research and Clinical Oncology, 1999, 125, 343-349.	2.5	79
18	Increases in NMR-visible lipid and glycerophosphocholine during phenylbutyrate-induced apoptosis in human prostate cancer cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1734, 1-12.	2.4	79

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19	Finger printing of mycobacterium tuberculosis in patients with intracranial tuberculomas by usingin vivo,ex vivo, andin vitro magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 1996, 36, 829-833.	3.0	67
20	Proton Magnetic Resonance Spectroscopy in Differentiating Glioblastomas From Primary Cerebral Lymphomas and Brain Metastases. Journal of Computer Assisted Tomography, 2010, 34, 836-841.	0.9	67
21	Determination of Grade and Subtype of Meningiomas by Using Histogram Analysis of Diffusion-Tensor Imaging Metrics. Radiology, 2012, 262, 584-592.	7.3	67
22	A convolutional neural network to filter artifacts in spectroscopic <scp>MRI</scp>. Magnetic Resonance in Medicine, 2018, 80, 1765-1775.	3.0	67
23	Non-invasive imaging reveals conditions that impact distribution and persistence of cells after in vivo administration. Stem Cell Research and Therapy, 2018, 9, 332.	5.5	66
24	Magnetic resonance perfusion-weighted imaging defines angiogenic subtypes of oligodendroglioma according to 1p19q and EGFR status. Journal of Neuro-Oncology, 2009, 92, 373-386.	2.9	60
25	Transcytolemmal water exchange in pharmacokinetic analysis of dynamic contrastâ€enhanced MRI data in squamous cell carcinoma of the head and neck. Journal of Magnetic Resonance Imaging, 2007, 26, 1607-1617.	3.4	57
26	In vivo Magnetic Resonance Imaging of Tumor Protease Activity. Scientific Reports, 2014, 4, 6081.	3.3	57
27	Diffusion tensor MRI in rat models of invasive and well-demarcated brain tumors. NMR in Biomedicine, 2008, 21, 208-216.	2.8	48
28	Monitoring response to chemotherapy of nonâ€Hodgkin's lymphoma xenografts by T₂â€weighted and diffusionâ€weighted MRI. NMR in Biomedicine, 2008, 21, 1021-1029.	2.8	48
29	Magnetic Resonance Spectroscopy for Detection of 2-Hydroxyglutarate as a Biomarker for IDH Mutation in Gliomas. Metabolites, 2017, 7, 29.	2.9	48
30	Preclinical imaging methods for assessing the safety and efficacy of regenerative medicine therapies. Npj Regenerative Medicine, 2017, 2, 28.	5.2	47
31	Brain metabolite changes on in vivo proton magnetic resonance spectroscopy in children with congenital hypothyroidism. Journal of Pediatrics, 1995, 126, 389-392.	1.8	45
32	Creatine CEST MRI for Differentiating Gliomas with Different Degrees of Aggressiveness. Molecular Imaging and Biology, 2017, 19, 225-232.	2.6	45
33	T1Ï•Imaging of Murine Brain Tumors at 4 T. Academic Radiology, 2001, 8, 42-47.	2.5	44
34	MR techniques for in vivo molecular and cellular imaging. Radiologic Clinics of North America, 2005, 43, 205-220.	1.8	44
35	Neuroimaging in Amyotrophic Lateral Sclerosis. Neurotherapeutics, 2011, 8, 63-71.	4.4	44
36	Detection of Human Immunodeficiency Virusâ€“Induced Inflammation and Oxidative Stress in Lenticular Nuclei With Magnetic Resonance Spectroscopy Despite Antiretroviral Therapy. Archives of Neurology, 2007, 64, 1249.	4.5	43

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37	Linking spatial gene expression patterns to sex-specific brain structural changes on a mouse model of 16p11.2 hemideletion. Translational Psychiatry, 2018, 8, 109.	4.8	43
38	Multiparametric MRI: practical approach and pictorial review of a useful tool in the evaluation of brain tumours and tumour-like lesions. Insights Into Imaging, 2020, 11, 84.	3.4	42
39	Structure-Specific Patterns of Neural Stem Cell Engraftment After Transplantation in the Adult Mouse Brain. Human Gene Therapy, 2006, 17, 693-704.	2.7	41
40	Whole-Brain Analysis of Amyotrophic Lateral Sclerosis by Using Echo-Planar Spectroscopic Imaging. Radiology, 2013, 267, 851-857.	7.3	40
41	Early detection of radiation therapy response in nonâ€Hodgkin's lymphoma xenografts byin vivo¹H magnetic resonance spectroscopy and imaging. NMR in Biomedicine, 2010, 23, 624-632.	2.8	39
42	Prediction of Treatment Response of Head and Neck Cancers with P-31 MR Spectroscopy from Pretreatment Relative Phosphomonoester Levels. Academic Radiology, 2002, 9, 688-694.	2.5	38
43	Threeâ€dimensional echo planar spectroscopic imaging for differentiation of true progression from pseudoprogression in patients with glioblastoma. NMR in Biomedicine, 2019, 32, e4042.	2.8	38
44	Dynamic susceptibility contrast perfusion weighted imaging in grading of nonenhancing astrocytomas. Journal of Magnetic Resonance Imaging, 2010, 32, 803-808.	3.4	37
45	Advanced MR Imaging Techniques in the Evaluation of Nonenhancing Gliomas: Perfusion-Weighted Imaging Compared with Proton Magnetic Resonance Spectroscopy and Tumor Grade. Neuroradiology Journal, 2013, 26, 531-541.	1.2	37
46	High Resolution Magnetic Resonance Imaging for Characterization of the Neuroligin-3 Knock-in Mouse Model Associated with Autism Spectrum Disorder. PLoS ONE, 2014, 9, e109872.	2.5	36
47	Radiation Injury to the Normal Brain Measured by 3Dâ€Echoâ€Planar Spectroscopic Imaging and Diffusion Tensor Imaging: Initial Experience. Journal of Neuroimaging, 2015, 25, 97-104.	2.0	35
48	Non-invasive detection of 2-hydroxyglutarate in IDH-mutated gliomas using two-dimensional localized correlation spectroscopy (2D L-COSY) at 7 Tesla. Journal of Translational Medicine, 2016, 14, 274.	4.4	35
49	In vivo MRS markers of response to CHOP chemotherapy in the WSUâ€DLCL2 human diffuse large Bâ€cell lymphoma xenograft. NMR in Biomedicine, 2008, 21, 723-733.	2.8	32
50	Diffusion Weighted Imaging inÂPredicting Progression Free Survival in Patients with Squamous Cell Carcinomas of the Head andÂNeck Treated with Induction Chemotherapy. Academic Radiology, 2011, 18, 1225-1232.	2.5	32
51	Frontal lobe abnormalities on MRS correlate with poor letter fluency in ALS. Neurology, 2012, 79, 583-588.	1.1	32
52	Longitudinal in-vivo diffusion tensor imaging for assessing brain developmental changes in BALB/cJ mice, a model of reduced sociability relevant to autism. Brain Research, 2012, 1455, 56-67.	2.2	32
53	Detecting early response to cyclophosphamide treatment of RIF-1 tumors using selective multiple quantum spectroscopy (SelMQC) and dynamic contrast enhanced imaging. NMR in Biomedicine, 2003, 16, 102-111.	2.8	31
54	Morphologic MRI features, diffusion tensor imaging and radiation dosimetric analysis to differentiate pseudo-progression from early tumor progression. Journal of Neuro-Oncology, 2013, 112, 413-420.	2.9	31

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55	Magnetic Resonance Spectroscopy for Detection of Choline Kinase Inhibition in the Treatment of Brain Tumors. Molecular Cancer Therapeutics, 2015, 14, 899-908.	4.1	31
56	Magnetic Resonance Imaging Detects Differences in Migration Between Primary and Immortalized Neural Stem Cells. Academic Radiology, 2008, 15, 1269-1281.	2.5	30
57	Role of Proton Magnetic Resonance Spectroscopy in Differentiating Oligodendrogliomas from Astrocytomas. Journal of Neuroimaging, 2010, 20, 3-8.	2.0	30
58	Detection of lactate with a hadamard slice selected, selective multiple quantum coherence, chemical shift imaging sequence (HDMDâ€SelMQCâ€CSI) on a clinical MRI scanner: Application to tumors and muscle ischemia. Magnetic Resonance in Medicine, 2009, 62, 1404-1413.	3.0	29
59	Pharmacological Activation of Nrf2 Enhances Functional Liver Regeneration. Hepatology, 2021, 74, 973-986.	7.3	29
60	Prognostic Value of Dynamic Susceptibility Contrast-Enhanced and Diffusion-Weighted MR Imaging in Patients with Glioblastomas. American Journal of Neuroradiology, 2015, 36, 1247-1252.	2.4	28
61	High-resolution assessment of blood flow in murine RIF-1 tumors by monitoring uptake of H217O with protonT1?-weighted imaging. Magnetic Resonance in Medicine, 2003, 49, 1-6.	3.0	27
62	Enhanced delineation of white matter structures of the fixed mouse brain using Gdâ€DTPA in microscopic MRI. NMR in Biomedicine, 2009, 22, 303-309.	2.8	27
63	Development of Multifunctional Magnetic Nanoparticles for Genetic Engineering and Tracking of Neural Stem Cells. Advanced Healthcare Materials, 2016, 5, 841-849.	7.6	27
64	Multiparametric magnetic resonance imaging in the assessment of anti-EGFRvIII chimeric antigen receptor T cell therapy in patients with recurrent glioblastoma. British Journal of Cancer, 2019, 120, 54-56.	6.4	27
65	Actinomycotic brain infection: registered diffusion, perfusion MR imaging and MR spectroscopy. Neuroradiology, 2006, 48, 346-350.	2.2	25
66	In Vivo Monitoring Response to Chemotherapy of Human Diffuse Large B-Cell Lymphoma Xenografts in SCID Mice by 1H and 31P MRS. Academic Radiology, 2007, 14, 1531-1539.	2.5	25
67	Imaging technologies for monitoring the safety, efficacy and mechanisms of action of cell-based regenerative medicine therapies in models of kidney disease. European Journal of Pharmacology, 2016, 790, 74-82.	3.5	25
68	Evaluating the effectiveness of transferrin receptorâ€1 (TfR1) as a magnetic resonance reporter gene. Contrast Media and Molecular Imaging, 2016, 11, 236-244.	0.8	25
69	Coâ€precipitation of DEAEâ€dextran coated SPIONs: how synthesis conditions affect particle properties, stem cell labelling and MR contrast. Contrast Media and Molecular Imaging, 2016, 11, 362-370.	0.8	24
70	Dynamic Contrast-Enhanced MRIâ€“Derived Intracellular Water Lifetime (Ï„i): A Prognostic Marker for Patients with Head and Neck Squamous Cell Carcinomas. American Journal of Neuroradiology, 2018, 39, 138-144.	2.4	24
71	Mechanisms of blood flow and hypoxia production in rat 9L-epigastric tumors. Tumor Microenvironment and Therapy, 2012, 1, 1-13.	1.2	23
72	Cyclophosphamide treatment modifies tumor oxygenation and glycolytic rates of RIF-1 tumors: 13C magnetic resonance spectroscopy, Eppendorf electrode, and redox scanning. Cancer Research, 2003, 63, 8813-20.	0.9	23

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73	Magnetic resonance spectroscopy of the occipital cortex and the cerebellar vermis distinguishes individual cats affected with alpha-mannosidosis from normal cats. NMR in Biomedicine, 2010, 23, 74-79.	2.8	21
74	Near infrared fluorescent imaging of choline kinase alpha expression and inhibition in breast tumors. Oncotarget, 2017, 8, 16518-16530.	1.8	21
75	Proton and Phosphorous MR Spectroscopy in Squamous Cell Carcinomas of the Head and Neck. Academic Radiology, 2009, 16, 1366-1372.	2.5	20
76	Dynamic and accurate assessment of acetaminophen-induced hepatotoxicity by integrated photoacoustic imaging and mechanistic biomarkers in vivo. Toxicology and Applied Pharmacology, 2017, 332, 64-74.	2.8	20
77	Magnetic Resonance Imaging for Characterization of a Chick Embryo Model of Cancer Cell Metastases. Molecular Imaging, 2018, 17, 153601211880958.	1.4	19
78	Lactate editing and lipid suppression by continuous wavelet transform analysis: Application to simulated and1H MRS brain tumor time-domain data. Magnetic Resonance in Medicine, 2000, 43, 649-656.	3.0	18
79	Assessment of early response to tumor-treating fields in newly diagnosed glioblastoma using physiologic and metabolic MRI: initial experience. CNS Oncology, 2016, 5, 137-144.	3.0	18
80	Diffusion Tensor Imaging of the Corticospinal Tract in Patients with Brain Neoplasms. Magnetic Resonance in Medical Sciences, 2011, 10, 239-243.	2.0	17
81	Differentiation of brain infection from necrotic glioblastoma using combined analysis of diffusion and perfusion MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 184-194.	3.4	17
82	In vivo¹H MRS of WSUâ€DLCL2 human nonâ€Hodgkin's lymphoma xenografts: response to rituximab and rituximab plus CHOP. NMR in Biomedicine, 2009, 22, 259-265.	2.8	16
83	Impact of transvascular and cellularâ€“interstitial water exchange on dynamic contrastâ€enhanced magnetic resonance imaging estimates of blood to tissue transfer constant and blood plasma volume. Journal of Magnetic Resonance Imaging, 2013, 37, 435-444.	3.4	16
84	Detection of occult neoplastic infiltration in the corpus callosum and prediction of overall survival in patients with glioblastoma using diffusion tensor imaging. European Journal of Radiology, 2019, 112, 106-111.	2.6	16
85	In vivo fate of free and encapsulated iron oxide nanoparticles after injection of labelled stem cells. Nanoscale Advances, 2019, 1, 367-377.	4.6	16
86	Association between sociability and diffusion tensor imaging in BALB/cJ mice. NMR in Biomedicine, 2012, 25, 104-112.	2.8	15
87	Quantitative proton magnetic resonance spectroscopy detects abnormalities in dorsolateral prefrontal cortex and motor cortex of patients with frontotemporal lobar degeneration. Journal of Neurology, 2010, 257, 114-121.	3.6	14
88	High-Resolution Magnetic Resonance Microscopy and Diffusion Tensor Imaging to Assess Brain Structural Abnormalities in the Murine Mucopolysaccharidosis VII Model. Journal of Neuropathology and Experimental Neurology, 2014, 73, 39-49.	1.7	14
89	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
90	Diffusion Tensor Imaging for Assessing Brain Gray and White Matter Abnormalities in a Feline Model of Î±-Mannosidosis. Journal of Neuropathology and Experimental Neurology, 2016, 75, 35-43.	1.7	14

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91	Global CNS correction in a large brain model of human alpha-mannosidosis by intravascular gene therapy. Brain, 2020, 143, 2058-2072.	7.6	14
92	Measuring Kidney Perfusion, pH, and Renal Clearance Consecutively Using MRI and Multispectral Optoacoustic Tomography. Molecular Imaging and Biology, 2020, 22, 494-503.	2.6	13
93	Physiological Imaging Methods for Evaluating Response to Immunotherapies in Glioblastomas. International Journal of Molecular Sciences, 2021, 22, 3867.	4.1	13
94	Extraventricular Neurocytoma and Ganglioneurocytoma: Advanced MR Imaging, Histopathological, and Chromosomal Findings. Journal of Neuroimaging, 2014, 24, 613-616.	2.0	11
95	Highâ€frequency electrical properties tomography at 9.4T as a novel contrast mechanism for brain tumors. Magnetic Resonance in Medicine, 2021, 86, 382-392.	3.0	11
96	Transplantation and Magnetic Resonance Imaging of Canine Neural Progenitor Cell Grafts in the Postnatal Dog Brain. Journal of Neuropathology and Experimental Neurology, 2008, 67, 954-962.	1.7	10
97	Imaging of cancer lipid metabolism in response to therapy. NMR in Biomedicine, 2019, 32, e4070.	2.8	10
98	Characteristic MR spectroscopy in fucosidosis: in vitro investigation. Pediatric Radiology, 2010, 40, 1446-1449.	2.0	9
99	Noninvasive Phosphorus Magnetic Resonance Spectroscopic Imaging Predicts Outcome to First-line Chemotherapy in Newly Diagnosed Patients with Diffuse Large B-Cell Lymphoma. Academic Radiology, 2013, 20, 1122-1129.	2.5	9
100	Diffusion- and Perfusion-Weighted Magnetic Resonance Imaging Methods in Nonenhancing Gliomas. World Neurosurgery, 2020, 141, 123-130.	1.3	9
101	Quantitative Estimation of Dynamic Contrast Enhanced MRI Parameters in Rat Brain Gliomas Using a Dual Surface Coil System. Academic Radiology, 2009, 16, 341-350.	2.5	8
102	Quantitative, noninvasive, in vivo longitudinal monitoring of gene expression in the brain by co-AAV transduction with a PET reporter gene. Molecular Therapy - Methods and Clinical Development, 2014, 1, 14016.	4.1	8
103	Non-uniformly weighted sampling for faster localized two-dimensional correlated spectroscopy of the brain in vivo. Journal of Magnetic Resonance, 2017, 277, 104-112.	2.1	8
104	Does the application of diffusion weighted imaging improve the prediction of survival in patients with resected brain metastases? A retrospective multicenter study. Cancer Imaging, 2020, 20, 16.	2.8	8
105	Anatomic, Physiologic and Metabolic Imaging in Neuro-Oncology. Cancer Treatment and Research, 2008, 143, 3-42.	0.5	8
106	Automatic correction of in-plane bulk motion artifacts in self-navigated radial MRI. Magnetic Resonance Imaging, 2008, 26, 367-378.	1.8	7
107	Effects of cardiac pulsation in diffusion tensor imaging of the rat brain. Journal of Neuroscience Methods, 2010, 194, 116-121.	2.5	7
108	Measurement of bloodâ€brain barrier permeability using dynamic contrastâ€enhanced magnetic resonance imaging with reduced scan time. Magnetic Resonance in Medicine, 2018, 80, 1686-1696.	3.0	7

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109	Prediction of distant metastases in patients with squamous cell carcinoma of head and neck using DWI and DCEâ€MRI. Head and Neck, 2020, 42, 3295-3306.	2.0	6
110	EGFR Targeted Fluorescence Imaging in Gliomas. Academic Radiology, 2010, 17, 1-2.	2.5	4
111	NMR Metabolic and Physiological Markers of Therapeutic Response. Advances in Experimental Medicine and Biology, 2011, 701, 129-135.	1.6	4
112	Diffusion kurtosis imaging for characterizing tumor heterogeneity in an intracranial rat glioblastoma model. NMR in Biomedicine, 2020, 33, e4386.	2.8	3
113	Assessing Tumour Haemodynamic Heterogeneity and Response to Choline Kinase Inhibition Using Clustered Dynamic Contrast Enhanced MRI Parameters in Rodent Models of Glioblastoma. Cancers, 2022, 14, 1223.	3.7	3
114	Molecular Imaging of Gene Therapy for Neurogenetic Diseases. , 2006, , 335-350.		2
115	Prediction and Early Detection of Response by NMR Spectroscopy and Imaging. PET Clinics, 2012, 7, 119-126.	3.0	2
116	Noninvasive imaging of nanoparticle-labeled transplant populations within polymer matrices for neural cell therapy. Nanomedicine, 2018, 13, 1333-1348.	3.3	2
117	Differentiating Nonenhancing Grade II Gliomas from Grade III Gliomas Using Diffusion Tensor Imaging and Dynamic Susceptibility Contrast MRI. World Neurosurgery, 2021, 146, e555-e564.	1.3	2
118	Role of Diffusion Tensor Imaging in Differentiation of Glioblastomas from Solitary Brain Metastases. , 2011, , 113-121.		0
119	2D CSI H1 MR spectroscopy of cerebral metabolites in HIV associated dementia (HAD). Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S350-S350.	4.3	0
120	Diffusion Tensor Imaging in Rat Models of Invasive Brain Tumors. , 2011, , 131-144.		0