

Greg J Stanisz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

7,861
citations

42
h-index

88
g-index

138
ext. papers

8,815
ext. citations

4.5
avg, IF

5.88
L-index

#	Paper	IF	Citations
119	Dietary Fiber, Insulin and Breast Tissue Composition at Age 15-18: A Cross-Sectional Study.. <i>Nutrition and Cancer</i> , 2022 , 1-9	2.8	
118	Review and consensus recommendations on clinical APT-weighted imaging approaches at 3T: Application to brain tumors.. <i>Magnetic Resonance in Medicine</i> , 2022 ,	4.4	3
117	Intravoxel incoherent motion (IVIM) modeling of diffusion MRI during chemoradiation predicts therapeutic response in IDH wildtype glioblastoma. <i>Radiotherapy and Oncology</i> , 2021 , 156, 258-265	5.3	7
116	ADC, D, f dataset calculated through the simplified IVIM model, with MGMT promoter methylation, age, and ECOG, in 38 patients with wildtype IDH glioblastoma. <i>Data in Brief</i> , 2021 , 35, 106950	1.2	0
115	Feasibility of using a single MRI acquisition for fiducial marker localization and synthetic CT generation towards MRI-only prostate radiation therapy treatment planning. <i>Biomedical Physics and Engineering Express</i> , 2021 , 7,	1.5	1
114	Probiotics, Prebiotics and Postbiotics on Mitigation of Depression Symptoms: Modulation of the Brain-Gut-Microbiome Axis. <i>Biomolecules</i> , 2021 , 11,	5.9	13
113	Quantitating Interfraction Target Dynamics During Concurrent Chemoradiation for Glioblastoma: A Prospective Serial Imaging Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 109, 736-746	4	12
112	Quantitative CEST and MT at 1.5T for monitoring treatment response in glioblastoma: early and late tumor progression during chemoradiation. <i>Journal of Neuro-Oncology</i> , 2021 , 151, 267-278	4.8	8
111	A strategy to prevent a temperature-induced MRI artifact in warm liquid phantoms due to convection currents. <i>NMR in Biomedicine</i> , 2021 , 34, e4494	4.4	
110	Accuracy and precision of apparent diffusion coefficient measurements on a 1.5T MR-Linac in central nervous system tumour patients. <i>Radiotherapy and Oncology</i> , 2021 , 164, 155-162	5.3	0
109	Chemical exchange saturation transfer MRI in central nervous system tumours on a 1.5T MR-Linac. <i>Radiotherapy and Oncology</i> , 2021 , 162, 140-149	5.3	3
108	Saturation transfer MRI is sensitive to neurochemical changes in the rat brain due to chronic unpredictable mild stress. <i>Scientific Reports</i> , 2021 , 11, 19040	4.9	
107	An Automated Segmentation Pipeline for Intratumoural Regions in Animal Xenografts Using Machine Learning and Saturation Transfer MRI. <i>Scientific Reports</i> , 2020 , 10, 8063	4.9	4
106	Prolonged inflammation leads to ongoing damage after spinal cord injury. <i>PLoS ONE</i> , 2020 , 15, e0226584.7	3.7	30
105	Quantitative ultrasound radiomics in predicting response to neoadjuvant chemotherapy in patients with locally advanced breast cancer: Results from multi-institutional study. <i>Cancer Medicine</i> , 2020 , 9, 5798-5806	4.8	21
104	Use of radiomics for the prediction of local control of brain metastases after stereotactic radiosurgery. <i>Neuro-Oncology</i> , 2020 , 22, 797-805	1	21
103	Deep Generative Model for Synthetic-CT Generation with Uncertainty Predictions. <i>Lecture Notes in Computer Science</i> , 2020 , 834-844	0.9	5

102	Postimplant Dosimetry of Permanent Prostate Brachytherapy: Comparison of MRI-Only and CT-MRI Fusion-Based Workflows. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 106, 206-215 ⁴		8
101	Dietary supplementation with <i>Lactobacillus rhamnosus</i> JB-1 restores brain neurochemical balance and mitigates the progression of mood disorder in a rat model of chronic unpredictable mild stress. <i>Nutrition Research</i> , 2020 , 82, 44-57	4	9
100	Quantitative ultrasound radiomics for therapy response monitoring in patients with locally advanced breast cancer: Multi-institutional study results. <i>PLoS ONE</i> , 2020 , 15, e0236182	3.7	13
99	Saturation transfer properties of tumour xenografts derived from prostate cancer cell lines 22Rv1 and DU145. <i>Scientific Reports</i> , 2020 , 10, 21315	4.9	1
98	In vitro characterization of the serotonin biosynthesis pathway by CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2389-2399	4.4	2
97	Advanced Magnetic Resonance Imaging Techniques in Management of Brain Metastases. <i>Frontiers in Oncology</i> , 2019 , 9, 440	5.3	26
96	Potential applications of the quantitative susceptibility mapping (QSM) in MR-guided radiation therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 145013	3.8	8
95	Frontal Anatomical Correlates of Cognitive and Speech Motor Deficits in Amyotrophic Lateral Sclerosis. <i>Behavioural Neurology</i> , 2019 , 2019, 9518309	3	7
94	Quantification of pulsed saturation transfer at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1684-1699	4.4	4
93	An MR Radiomics Framework for Predicting the Outcome of Stereotactic Radiation Therapy in Brain Metastasis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1022-1025	0.9	6
92	Quantitative MRI Biomarkers of Stereotactic Radiotherapy Outcome in Brain Metastasis. <i>Scientific Reports</i> , 2019 , 9, 19830	4.9	22
91	Feasibility of an MRI-only workflow for postimplant dosimetry of low-dose-rate prostate brachytherapy: Transition from phantoms to patients. <i>Brachytherapy</i> , 2019 , 18, 863-874	2.4	3
90	An Automatic Framework for Segmentation of Brain Tumours at Follow-up Scans after Radiation Therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 463-466	0.9	
89	Hydrazo-CEST: Hydrazone-Dependent Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agents. <i>Chemistry - A European Journal</i> , 2018 , 24, 9148-9156	4.8	12
88	The prognostic and predictive value of vascular response parameters measured by dynamic contrast-enhanced-CT, -MRI and -US in patients with metastatic renal cell carcinoma receiving sunitinib. <i>European Radiology</i> , 2018 , 28, 2281-2290	8	21
87	Quantitative Magnetization Transfer in Monitoring Glioblastoma (GBM) Response to Therapy. <i>Scientific Reports</i> , 2018 , 8, 2475	4.9	20
86	Evaluation of Glioblastoma Response to Therapy With Chemical Exchange Saturation Transfer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 713-723	4	35
85	Glioblastoma (GBM) effects on quantitative MRI of contralateral normal appearing white matter. <i>Journal of Neuro-Oncology</i> , 2018 , 139, 97-106	4.8	14

84	Magnetization Transfer Contrast and Chemical Exchange Saturation Transfer MRI. Features and analysis of the field-dependent saturation spectrum. <i>NeuroImage</i> , 2018 , 168, 222-241	7.9	135
83	Differentiation of Normal and Radioresistant Prostate Cancer Xenografts Using Magnetization Transfer-Prepared MRI. <i>Scientific Reports</i> , 2018 , 8, 10447	4.9	10
82	The origins of breast cancer associated with mammographic density: a testable biological hypothesis. <i>Breast Cancer Research</i> , 2018 , 20, 17	8.3	18
81	Chemical exchange saturation transfer MRI to assess cell death in breast cancer xenografts at 7T. <i>Oncotarget</i> , 2018 , 9, 31490-31501	3.3	5
80	Diffusion-Tensor Imaging Versus Digitization in Reconstructing the Masseter Architecture. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	5
79	MRI-based automated detection of implanted low dose rate (LDR) brachytherapy seeds using quantitative susceptibility mapping (QSM) and unsupervised machine learning (ML). <i>Radiotherapy and Oncology</i> , 2018 , 129, 540-547	5.3	15
78	Imaging the Effects of β -Hydroxybutyrate on Peri-Infarct Neurovascular Function and Metabolism. <i>Stroke</i> , 2018 , 49, 2173-2181	6.7	16
77	Differentiation between Radiation Necrosis and Tumor Progression Using Chemical Exchange Saturation Transfer. <i>Clinical Cancer Research</i> , 2017 , 23, 3667-3675	12.9	71
76	Water Exchange Rate Constant as a Biomarker of Treatment Efficacy in Patients With Brain Metastases Undergoing Stereotactic Radiosurgery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 98, 47-55	4	10
75	Early regional cuprizone-induced demyelination in a rat model revealed with MRI. <i>NMR in Biomedicine</i> , 2017 , 30, e3743	4.4	6
74	A realistic phantom for validating MRI-based synthetic CT images of the human skull. <i>Medical Physics</i> , 2017 , 44, 4687-4694	4.4	5
73	Temporal evolution of perfusion parameters in brain metastases treated with stereotactic radiosurgery: comparison of intravoxel incoherent motion and dynamic contrast enhanced MRI. <i>Journal of Neuro-Oncology</i> , 2017 , 135, 119-127	4.8	7
72	Modulation of the peri-infarct neurogliovascular function by delayed COX-1 inhibition. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 505-517	5.6	7
71	Neurovascular unit remodelling in the subacute stage of stroke recovery. <i>NeuroImage</i> , 2017 , 146, 869-882	7.9	33
70	Chemical exchange saturation transfer for predicting response to stereotactic radiosurgery in human brain metastasis. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1110-1120	4.4	36
69	An in vivo model of anti-inflammatory activity of subdural dexamethasone following the spinal cord injury. <i>Neurologia I Neurochirurgia Polska</i> , 2016 , 50, 7-15	1	20
68	Magnetic resonance spectroscopy reveals oral Lactobacillus promotion of increases in brain GABA, N-acetyl aspartate and glutamate. <i>NeuroImage</i> , 2016 , 125, 988-995	7.9	140
67	Attenuation of functional hyperemia to visual stimulation in mild Alzheimer's disease and its sensitivity to cholinesterase inhibition. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 957-65	6.9	10

66	Differences in iron and manganese concentration may confound the measurement of myelin from R1 and R2 relaxation rates in studies of dysmyelination. <i>NMR in Biomedicine</i> , 2016 , 29, 985-98	4.4	8
65	Gene delivery to the spinal cord using MRI-guided focused ultrasound. <i>Gene Therapy</i> , 2015 , 22, 568-77	4	51
64	The effects of delayed reduction of tonic inhibition on ischemic lesion and sensorimotor function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 1601-9	7.3	51
63	Quantitative MRI in a non-surgical model of cervical spinal cord injury. <i>NMR in Biomedicine</i> , 2015 , 28, 925-36	4.4	13
62	Prolonged Subdural Infusion of Kynurenic Acid Is Associated with Dose-Dependent Myelin Damage in the Rat Spinal Cord. <i>PLoS ONE</i> , 2015 , 10, e0142598	3.7	13
61	Mapping water exchange rates in rat tumor xenografts using the late-stage uptake following bolus injections of contrast agent. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1874-87	4.4	16
60	A non-surgical model of cervical spinal cord injury induced with focused ultrasound and microbubbles. <i>Journal of Neuroscience Methods</i> , 2014 , 235, 92-100	3	14
59	Comparing average breast fat content results from two different protocols at 1.5T and 3T: can the data be pooled?. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 890-8	5.6	4
58	In vitro detection of apoptosis using oscillating and pulsed gradient diffusion magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2014 , 27, 371-80	4.4	12
57	Mapping of amide, amine, and aliphatic peaks in the CEST spectra of murine xenografts at 7 T. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1841-53	4.4	133
56	Effects of diffusion on high-resolution quantitative T2 MRI. <i>NMR in Biomedicine</i> , 2014 , 27, 672-80	4.4	9
55	Oscillating and pulsed gradient diffusion magnetic resonance microscopy over an extended b-value range: implications for the characterization of tissue microstructure. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1131-45	4.4	48
54	Effectiveness of micron-sized superparamagnetic iron oxide particles as markers for detection of migration of bone marrow-derived mesenchymal stromal cells in a stroke model. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 1409-18	5.6	18
53	Optimizing T1-weighted imaging of cortical myelin content at 3.0 T. <i>NeuroImage</i> , 2013 , 65, 1-12	7.9	49
52	Quantification of fibrosis in infarcted swine hearts by ex vivo late gadolinium-enhancement and diffusion-weighted MRI methods. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5009-28	3.8	75
51	Contrasting the vascular response to sunitinib as measured by DCE-CT, DCE-MRI, and DCE-US.. <i>Journal of Clinical Oncology</i> , 2013 , 31, 378-378	2.2	3
50	MRI as a tool for evaluation of oral controlled release dosage forms. <i>Drug Discovery Today</i> , 2012 , 17, 110-23	8.8	17
49	The effects of intrathecal injection of a hyaluronan-based hydrogel on inflammation, scarring and neurobehavioural outcomes in a rat model of severe spinal cord injury associated with arachnoiditis. <i>Biomaterials</i> , 2012 , 33, 4555-64	15.6	65

48	Thermally-triggered on-off response of gadolinium-hydrogel-lipid hybrid nanoparticles defines a customizable temperature window for non-invasive magnetic resonance imaging thermometry. <i>Journal of Controlled Release</i> , 2012 , 157, 478-84	11.7	27
47	A novel method for simultaneous 3D B(1) and T(1) mapping: the method of slopes (MoS). <i>NMR in Biomedicine</i> , 2012 , 25, 1043-55	4.4	17
46	Magnetic resonance microscopy of human and porcine neurons and cellular processes. <i>NeuroImage</i> , 2012 , 60, 1404-11	7.9	26
45	Understanding quantitative pulsed CEST in the presence of MT. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 979-90	4.4	78
44	Imaging innovations for cancer therapy response monitoring. <i>Imaging in Medicine</i> , 2012 , 4, 311-327	1	42
43	Size-Tunable, Ultrasmall NaGdF ₄ Nanoparticles: Insights into Their T1MRI Contrast Enhancement. <i>Chemistry of Materials</i> , 2011 , 23, 3714-3722	9.6	368
42	Quantitative magnetization transfer studies of apoptotic cell death. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 264-9	4.4	16
41	Microbubble ultrasound (DCE-US) compared to DCE-MRI and DCE-CT for the assessment of vascular response to sunitinib in renal cell carcinoma (RCC).. <i>Journal of Clinical Oncology</i> , 2011 , 29, 4627-4627	2.2	6
40	Diffusion MR in Biological Systems: Tissue Compartments and Exchange. <i>Israel Journal of Chemistry</i> , 2010 , 43, 33-44	3.4	39
39	Polymer-Stabilized Lanthanide Fluoride Nanoparticle Aggregates as Contrast Agents for Magnetic Resonance Imaging and Computed Tomography. <i>Chemistry of Materials</i> , 2010 , 22, 4728-4739	9.6	104
38	Microbubbles loaded with nanoparticles: a route to multiple imaging modalities. <i>ACS Nano</i> , 2010 , 4, 6579-86	10.6	112
37	Molecular mechanisms of spinal cord dysfunction and cell death in the spinal hyperostotic mouse: implications for the pathophysiology of human cervical spondylotic myelopathy. <i>Neurobiology of Disease</i> , 2009 , 33, 149-63	7.5	53
36	Quantitative magnetization transfer characteristics of the human cervical spinal cord in vivo: application to adrenomyeloneuropathy. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 22-7	4.4	44
35	Detection of apoptotic cell death in vitro in the presence of Gd-DTPA-BMA. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 46-55	4.4	30
34	Aldehyde fixative solutions alter the water relaxation and diffusion properties of nervous tissue. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 26-34	4.4	210
33	Postmortem interval alters the water relaxation and diffusion properties of rat nervous tissue--implications for MRI studies of human autopsy samples. <i>NeuroImage</i> , 2009 , 44, 820-6	7.9	88
32	Cellular-interstitial water exchange and its effect on the determination of contrast agent concentration in vivo: dynamic contrast-enhanced MRI of human internal obturator muscle. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1011-9	4.4	59
31	Modeling pulsed magnetization transfer. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 144-55	4.4	74

30	Effects of temperature and aldehyde fixation on tissue water diffusion properties, studied in an erythrocyte ghost tissue model. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 282-9	4.4	83
29	MR microscopy of rat hippocampal slice cultures: a novel model for studying cellular processes and chronic perturbations to tissue microstructure. <i>NeuroImage</i> , 2006 , 30, 780-6	7.9	12
28	Water-Soluble GdF3 and GdF3/LaF3 Nanoparticles Physical Characterization and NMR Relaxation Properties. <i>Chemistry of Materials</i> , 2006 , 18, 2499-2505	9.6	254
27	An MRI evaluation of carpal tunnel dimensions in healthy wrists: Implications for carpal tunnel syndrome. <i>Clinical Biomechanics</i> , 2006 , 21, 816-25	2.2	59
26	Histological and magnetic resonance analysis of sciatic nerves in the tellurium model of neuropathy. <i>Journal of the Peripheral Nervous System</i> , 2005 , 10, 38-46	4.7	25
25	MR properties of excised neural tissue following experimentally induced demyelination. <i>NMR in Biomedicine</i> , 2005 , 18, 277-84	4.4	96
24	T1, T2 relaxation and magnetization transfer in tissue at 3T. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 507-12	4.4	932
23	MR properties of excised neural tissue following experimentally induced inflammation. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 473-9	4.4	106
22	MRI of the Carpal Tunnel. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, S287-S288	1.2	
21	Is multicomponent T2 a good measure of myelin content in peripheral nerve?. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 638-45	4.4	146
20	Why does MTR change with neuronal depolarization?. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 472-5	4.4	15
19	Human erythrocyte ghosts: exploring the origins of multiexponential water diffusion in a model biological tissue with magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 649-57	4.4	52
18	Can MTR be used to assess cartilage in the presence of Gd-DTPA2-?. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 1081-4	4.4	26
17	Magnetization transfer in MRI: a review. <i>NMR in Biomedicine</i> , 2001 , 14, 57-64	4.4	643
16	MR properties of rat sciatic nerve following trauma. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 415-20	4.4	86
15	A multicenter measurement of magnetization transfer ratio in normal white matter. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 568	5.6	
14	Gd-DTPA relaxivity depends on macromolecular content. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 665-74	4.4	186
13	Tracking oxygen effects on MR signal in blood and skeletal muscle during hyperoxia exposure. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 814-20	5.6	62

12	Analysis of changes in MR properties of tissues after heat treatment. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 1061-71	4.4	112
11	Characterizing white matter with magnetization transfer and T(2). <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 1128-36	4.4	204
10	Water dynamics in human blood via combined measurements of T2 relaxation and diffusion in the presence of gadolinium. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 223-33	4.4	71
9	Integrated analysis of diffusion and relaxation of water in blood. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 79-88	4.4	38
8	Diffusional anisotropy of T2 components in bovine optic nerve. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 405-10	4.4	99
7	An analytical model of restricted diffusion in bovine optic nerve. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 103-11	4.4	393
6	Modeling magnetization transfer for biological-like systems using a semi-solid pool with a super-Lorentzian lineshape and dipolar reservoir. <i>Journal of Magnetic Resonance Series B</i> , 1995 , 108, 103-13		115
5	Anisotropy of NMR properties of tissues. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 592-601	4.4	370
4	Relaxivity and magnetization transfer of white matter lipids at MR imaging: importance of cerebroside and pH. <i>Radiology</i> , 1994 , 192, 521-9	20.5	218
3	Quantitative interpretation of magnetization transfer. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 759-66	4.4	556
2	An analysis of short-range order in Ni ₃ Mn alloy by means of electrical resistivity measurements. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 6327-6333	1.8	2
1	Solubility modelling in binary alloys. <i>Scripta Metallurgica</i> , 1988 , 22, 617-622		