

Graham J Galloway

List of Publications by Year in descending order

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109
papers

3,309
citations

172386

29
h-index

161767

54
g-index

119
all docs

119
docs citations

119
times ranked

4150
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatty Infiltration in the Cervical Extensor Muscles in Persistent Whiplash-Associated Disorders. <i>Spine</i> , 2006, 31, E847-E855.	1.0	230
2	Effect of Rosiglitazone on Insulin Sensitivity and Body Composition in Type 2 Diabetic Patients. <i>Obesity</i> , 2002, 10, 1008-1015.	4.0	191
3	Magnetic resonance imaging and spectroscopy for monitoring liver steatosis. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 937-945.	1.9	174
4	Magnetic resonance imaging and spectroscopy accurately estimate the severity of steatosis provided the stage of fibrosis is considered. <i>Journal of Hepatology</i> , 2009, 51, 389-397.	1.8	156
5	Use of spherical harmonic deconvolution methods to compensate for nonlinear gradient effects on MRI images. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 115-122.	1.9	135
6	A 1H MRS study of probable Alzheimer's disease and normal aging: implications for longitudinal monitoring of dementia progression. <i>Magnetic Resonance Imaging</i> , 1999, 17, 291-299.	1.0	121
7	Fatty infiltrate in the cervical extensor muscles is not a feature of chronic, insidious-onset neck pain. <i>Clinical Radiology</i> , 2008, 63, 681-687.	0.5	113
8	4D deformation modeling of cortical disease progression in Alzheimer's dementia. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 661-666.	1.9	107
9	Super-resolution track-density imaging studies of mouse brain: Comparison to histology. <i>NeuroImage</i> , 2012, 59, 286-296.	2.1	105
10	Assessment of human liver metabolism by phosphorus-31 magnetic resonance spectroscopy. <i>British Journal of Radiology</i> , 1986, 59, 695-699.	1.0	103
11	MRI study of the cross-sectional area for the cervical extensor musculature in patients with persistent whiplash associated disorders (WAD). <i>Manual Therapy</i> , 2008, 13, 258-265.	1.6	93
12	The Temporal Development of Fatty Infiltrates in the Neck Muscles Following Whiplash Injury: An Association with Pain and Posttraumatic Stress. <i>PLoS ONE</i> , 2011, 6, e21194.	1.1	91
13	Segmentation of the mouse hippocampal formation in magnetic resonance images. <i>NeuroImage</i> , 2011, 58, 732-740.	2.1	88
14	Differential Changes in Muscle Composition Exist in Traumatic and Nontraumatic Neck Pain. <i>Spine</i> , 2014, 39, 39-47.	1.0	87
15	The multi-modal Australian ScienceS Imaging and Visualization Environment (MASSIVE) high performance computing infrastructure: applications in neuroscience and neuroinformatics research. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 30.	1.3	68
16	A mitochondrial encephalomyopathy. <i>Journal of the Neurological Sciences</i> , 1985, 71, 105-118.	0.3	65
17	Repeated Three-Dimensional Magnetic Resonance Imaging of Atherosclerosis Development in Innominate Arteries of Low-Density Lipoprotein Receptor-Knockout Mice. <i>Circulation</i> , 2002, 106, 1716-1721.	1.6	61
18	Magnetization transfer imaging for polymer gel dosimetry. <i>Physics in Medicine and Biology</i> , 2002, 47, 1881-1890.	1.6	59

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19	Study of human liver disease with P-31 magnetic resonance spectroscopy.. Gut, 1990, 31, 463-467.	6.1	58
20	Altered functional connectivity in mesial temporal lobe epilepsy. Epilepsy Research, 2017, 137, 45-52.	0.8	54
21	MR image-based measurement of rates of change in volumes of brain structures. Part II: application to a study of Alzheimer's disease and normal aging. Magnetic Resonance Imaging, 2002, 20, 41-48.	1.0	53
22	Magnetic resonance imaging analysis of the upper cervical spine extensor musculature in an asymptomatic cohort: an index of fat within muscle. Clinical Radiology, 2005, 60, 355-363.	0.5	50
23	The clinical presentation of chronic whiplash and the relationship to findings of MRI fatty infiltrates in the cervical extensor musculature: a preliminary investigation. European Spine Journal, 2009, 18, 1371-1378.	1.0	46
24	Discrete isolation from gradient-governed elimination of resonances. DIGGER, a new technique for in vivo volume-selected NMR spectroscopy. Journal of Magnetic Resonance, 1986, 70, 319-326.	0.5	45
25	Radiological studies of fetal alcohol spectrum disorders in humans and animal models: An updated comprehensive review. Magnetic Resonance Imaging, 2017, 43, 10-26.	1.0	41
26	The study of human organs by phosphorus-31 topical magnetic resonance spectroscopy. British Journal of Radiology, 1987, 60, 367-373.	1.0	38
27	Localized two-dimensional shift correlated spectroscopy in humans at 2 Tesla. Magnetic Resonance in Medicine, 1994, 32, 251-257.	1.9	38
28	A global view of standards for open image data formats and repositories. Nature Methods, 2021, 18, 1440-1446.	9.0	36
29	SUXAMETHONIUM CHLORIDE AND MALIGNANT HYPERTERMIA. British Journal of Anaesthesia, 1986, 58, 447-450.	1.5	32
30	In vivo High Angular Resolution Diffusion-Weighted Imaging of Mouse Brain at 16.4 Tesla. PLoS ONE, 2015, 10, e0130133.	1.1	32
31	Water signal elimination in Vivo, using T2* suppression by mistimed echo and repetitive gradient episodes. Journal of Magnetic Resonance, 1986, 70, 176-180.	0.5	31
32	Segmentation of the C57BL/6J mouse cerebellum in magnetic resonance images. NeuroImage, 2012, 62, 1408-1414.	2.1	31
33	The visibility of the 1H NMR signal of ethanol in the dog brain. Magnetic Resonance in Medicine, 1991, 19, 340-348.	1.9	28
34	Detection of dimethyl sulfone in the human brain by in vivo proton magnetic resonance spectroscopy. Magnetic Resonance Imaging, 2000, 18, 95-98.	1.0	27
35	Magnetic Resonance Imaging: The Underlying Principles. Journal of Orthopaedic and Sports Physical Therapy, 2011, 41, 806-819.	1.7	27
36	T1 Mapping for Myocardial Fibrosis by Cardiac Magnetic Resonance Relaxometry: A Comprehensive Technical Review. Frontiers in Cardiovascular Medicine, 2017, 3, 49.	1.1	27

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37	The unequivocal determination of lactic acid using a one-dimensional zero-quantum coherence-transfer technique. <i>Magnetic Resonance in Medicine</i> , 1989, 9, 132-138.	1.9	26
38	A comparison of some gradient-encoded volume-selection techniques for <i>in vivo</i> NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 393-398.	1.9	25
39	Measurement of the T2 relaxation time of ethanol and cerebral metabolites, <i>in vivo</i> . <i>Magnetic Resonance in Medicine</i> , 1992, 23, 333-345.	1.9	25
40	Changes in the hippocampus induced by glucose in thiamin deficient rats detected by MRI. <i>Brain Research</i> , 1998, 791, 347-351.	1.1	23
41	Hippocampal volume and cell density changes in a mouse model of human genetic epilepsy. <i>Neurology</i> , 2013, 80, 1240-1246.	1.5	21
42	Visualization of mouse barrel cortex using <i>ex-vivo</i> track density imaging. <i>NeuroImage</i> , 2014, 87, 465-475.	2.1	21
43	First year of experience with P-31 magnetic resonance studies of human liver. <i>Magnetic Resonance Imaging</i> , 1986, 4, 413-416.	1.0	19
44	The utilization of two frequency-shifted sinc pulses for performing volume-selected <i>in vivo</i> NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 970-975.	1.9	17
45	MRI resolution enhancement: How useful are shifted images obtained by changing the demodulation frequency?. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 664-672.	1.9	17
46	The design of planar gradient coils. Part I: A winding path correction method. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 27B, 17-24.	0.3	16
47	Feasibility of functional magnetic resonance lung imaging in Australia with long distance transport of hyperpolarized helium from Germany. <i>Respirology</i> , 2008, 13, 599-602.	1.3	14
48	Ventilation distribution in rats: Part 2 – A comparison of electrical impedance tomography and hyperpolarised helium magnetic resonance imaging. <i>BioMedical Engineering OnLine</i> , 2012, 11, 68.	1.3	14
49	Intramuscular fat is present in cervical multifidus but not soleus in patients with chronic whiplash associated disorders. <i>PLoS ONE</i> , 2018, 13, e0197438.	1.1	14
50	Increased GABA+ in People With Migraine, Headache, and Pain Conditions- A Potential Marker of Pain. <i>Journal of Pain</i> , 2021, 22, 1631-1645.	0.7	14
51	A reproducible method for automated extraction of brain volumes from 3D human head mr images. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 480-486.	1.9	13
52	Nodal inhomogeneity mapping by localized excitation – the “NIMBLE”-shimming technique for high-resolution <i>in Vivo</i> NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1988, 7, 352-357.	1.9	12
53	Hexarelin treatment preserves myocardial function and reduces cardiac fibrosis in a mouse model of acute myocardial infarction. <i>Physiological Reports</i> , 2018, 6, e13699.	0.7	12
54	High-field localized <i>in vivo</i> proton spectroscopy on micro volumes. <i>Magnetic Resonance in Medicine</i> , 1990, 13, 518-523.	1.9	11

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55	Magnetic resonance microscopy of the equine hoof wall: a study of resolution and potential. <i>Equine Veterinary Journal</i> , 2010, 38, 461-466.	0.9	11
56	In vivo high-resolution volume-selected proton spectroscopy and T1 measurements in the dog brain. <i>Magnetic Resonance in Medicine</i> , 1989, 9, 288-295.	1.9	10
57	Association between congenital defects in papillary outgrowth and functional obstruction in <i>Crim1</i> mutant mice. <i>Journal of Pathology</i> , 2012, 227, 499-510.	2.1	10
58	Quantification of β -Amyloidosis and rCBF with Dedicated PET, 7 T MR Imaging, and High-Resolution Microscopic MR Imaging at 16.4 T in APP23 Mice. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1593-1599.	2.8	10
59	Early gestational ethanol exposure in mice: Effects on brain structure, energy metabolism and adiposity in adult offspring. <i>Alcohol</i> , 2019, 75, 1-10.	0.8	10
60	Improvements and extensions to the DIGGER technique for performing spatial selective excitation. <i>Journal of Magnetic Resonance</i> , 1987, 73, 360-368.	0.5	9
61	In vivo volume-selective metabolite editing via correlated z-order. <i>Magnetic Resonance in Medicine</i> , 1990, 16, 460-469.	1.9	9
62	Carotid ultrasound pulsatility indices and cardiovascular risk in Australian women. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2015, 59, 20-25.	0.9	9
63	Two New Fucose- β (1 \rightarrow 2)-Glycans Assigned In The Healthy Human Brain Taking The Number To Seven. <i>Scientific Reports</i> , 2019, 9, 18806.	1.6	9
64	Increase in ACC GABA+ levels correlate with decrease in migraine frequency, intensity and disability over time. <i>Journal of Headache and Pain</i> , 2021, 22, 150.	2.5	9
65	Water-suppressed volume-selected ^1H NMR spectroscopy in vivo: Application to study tumor metabolism. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 508-512.	1.9	8
66	A simple modification for the elimination of phase distortions, a characteristic of α -binomial solvent suppression pulse sequences. <i>Journal of Magnetic Resonance</i> , 1987, 74, 184-187.	0.5	8
67	Application of surface coil reception to record volume-selected high-resolution proton in vivo spectra using a combined DIGGER-SPACE pulse sequence. <i>Journal of Magnetic Resonance</i> , 1987, 73, 159-167.	0.5	8
68	The design of planar gradient coils. Part II: A weighted superposition method. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 27B, 25-33.	0.3	8
69	<i>WorkWays</i> : interacting with scientific workflows. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 4377-4397.	1.4	8
70	PHOSPHORUS-31 NUCLEAR MAGNETIC RESONANCE STUDIES OF MUSCLE METABOLISM IN MALIGNANT HYPERTHYREXIA. <i>British Journal of Anaesthesia</i> , 1984, 56, 663-664.	1.5	7
71	Are quenches dangerous?. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 112-117.	1.9	7
72	Interpretation of Medical Imaging Data with a Mobile Application: A Mobile Digital Imaging Processing Environment. <i>Frontiers in Neurology</i> , 2013, 4, 85.	1.1	7

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73	Identification of Pre-Spike Network in Patients with Mesial Temporal Lobe Epilepsy. <i>Frontiers in Neurology</i> , 2014, 5, 222.	1.1	7
74	Hexarelin targets neuroinflammatory pathways to preserve cardiac morphology and function in a mouse model of myocardial ischemia-reperfusion. <i>Biomedicine and Pharmacotherapy</i> , 2020, 127, 110165.	2.5	6
75	A Preclinical Animal Model for the Study of Scaffold-Guided Breast Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 366-377.	1.1	6
76	Gradient-induced water-suppression techniques for high-resolution NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 1989, 81, 411-417.	0.5	5
77	Non-Invasive Monitoring of Sucrose Mobilization from Culm Storage Parenchyma by Magnetic Resonance Spectroscopy. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 487-496.	0.6	5
78	WorkWays: Interacting with Scientific Workflows. , 2014, , .		5
79	Post-traumatic stress disorder affects fucose- α (1 \rightarrow 2)-glycans in the human brain: preliminary findings of neuro deregulation using in vivo two-dimensional neuro MR spectroscopy. <i>Translational Psychiatry</i> , 2019, 9, 27.	2.4	5
80	Metabolite editing via correlated z order with total inherent coherence. <i>ECZOTIC. Journal of Magnetic Resonance</i> , 1989, 83, 190-196.	0.5	4
81	PROCESSING OF URINARY PHEROMONES IN ANTECHINUS STUARTII (MARSUPIALIA: DASYURIDAE): FUNCTIONAL MAGNETIC RESONANCE IMAGING OF THE BRAIN. <i>Journal of Mammalogy</i> , 2002, 83, 71-80.	0.6	4
82	A wrapped edge transverse gradient coil design for increased gradient homogeneity. <i>Concepts in Magnetic Resonance Part B</i> , 2009, 35B, 139-152.	0.3	4
83	A USPIO doped gel phantom for R2* relaxometry. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 15-27.	1.1	4
84	The Use of Unwrapped Phase in MR Image Segmentation: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2005, , 813-820.	1.0	4
85	Validation of Mualem's Conductivity Model and Prediction of Saturated Permeability from Sorptivity. <i>ACI Materials Journal</i> , 2008, 105, .	0.3	4
86	THE EFFECT OF THE CALCIUM ION ANTAGONIST 8-(N,N-DIETHYLAMINO)-OCTYL-3,4,5-TRIMETHOXYBENZOATE ON MALIGNANT HYPERTHERMIA-SUSCEPTIBLE PORCINE SKELETAL MUSCLE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1983, 10, 587-593.	0.9	3
87	Homonuclear coherence transfer experiments using shaped RF pulses having a tailored phase profile. <i>Journal of Magnetic Resonance</i> , 1989, 82, 597-604.	0.5	3
88	A wave equation technique for designing compact gradient coils. <i>Concepts in Magnetic Resonance Part B</i> , 2006, 29B, 62-74.	0.3	3
89	Magnetic Resonance Imaging and Micro-Computed Tomography reveal brain morphological abnormalities in a mouse model of early moderate prenatal ethanol exposure. <i>Neurotoxicology and Teratology</i> , 2020, 77, 106849.	1.2	3
90	7-Tesla Functional Cardiovascular MR Using Vectorcardiographic Triggering: Overcoming the Magnetohydrodynamic Effect. <i>Tomography</i> , 2021, 7, 323-332.	0.8	3

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91	On the calculation of magnetization slice profiles for NMR imaging and in vivo spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 478-484.	1.9	2
92	On the use of a slice-selective 270Å° self-refocusing Gaussian pulse for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 456-460.	1.9	2
93	Regional rates of brain atrophy - can they be used as a reliable tool for early diagnosis of Alzheimer's disease?. , 0, , .		2
94	MRI demodulation frequency changes provide different information. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1513-1514.	1.9	2
95	GABA _A receptor density alterations revealed in a mouse model of early moderate prenatal ethanol exposure using [18F]AH114726. <i>Nuclear Medicine and Biology</i> , 2020, 88-89, 44-51.	0.3	2
96	Putting the Trust into Trusted Data Repositories: A Federated Solution for the Australian National Imaging Facility. <i>International Journal of Digital Curation</i> , 2019, 14, 102-113.	0.1	2
97	CLODANOLENE SODIUM AND MALIGNANT HYPERTHYREXIA. <i>British Journal of Anaesthesia</i> , 1982, 54, 1237.	1.5	1
98	An Approach of Deriving Relative Sensitivity Profiles for Image Reconstruction in MRI. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008, 2, 817-827.	7.3	1
99	Combined approach for non-invasive measurement of liver pathology by MR. <i>Journal of Hepatology</i> , 2009, 51, 1083-1084.	1.8	1
100	Current developments in MRI for assessing rodent models of multiple sclerosis. <i>Future Neurology</i> , 2014, 9, 487-511.	0.9	1
101	1009 QUANTITATION OF STEATOSIS BY MAGNETIC RESONANCE IMAGING (MRI) AND SPECTROSCOPY (MRS) IN LIVER DISEASE: EFFECT OF HEPATIC FIBROSIS. <i>Journal of Hepatology</i> , 2009, 50, S365-S366.	1.8	0
102	Magnetic resonance spectroscopy: is it ripe for clinical practice?. <i>Lancet Neurology</i> , The, 2010, 9, 351.	4.9	0
103	184â€¦Cardioprotective Role of Hexarelin in a Mouse Model of Myocardial Infarction. <i>Heart</i> , 2016, 102, A127.1-A127.	1.2	0
104	[OP.3B.05] HEXARELIN PRESERVES MYOCARDIAL FUNCTION AND REDUCES INFLAMMATION AND FIBROSIS IN A MOUSE MODEL OF MYOCARDIAL ISCHEMIA REPERFUSION. <i>Journal of Hypertension</i> , 2017, 35, e29.	0.3	0
105	Cardiac Magnetic Resonance T1 Mapping in Cardiomyopathies. , 0, , .		0
106	TissueStack: a new way to view your imaging data. <i>Frontiers in Neuroinformatics</i> , 0, 7, .	1.3	0
107	TissueStack: an Open Source HTML5 web based imaging viewer. <i>Frontiers in Neuroinformatics</i> , 0, 7, .	1.3	0
108	A segmentation guide and probabilistic atlas of the C57BL/6J mouse brain from magnetic resonance imaging. <i>Frontiers in Neuroinformatics</i> , 0, 8, .	1.3	0

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109	Case Report: Capacity to Objectively Monitor the Response of a Chronic Pain Patient to Treatment. , 2022, 1, .		0