Gary J Cowin

List of Publications by Year in descending order

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		147726	1	161767
84	3,200	31		54
papers	citations	h-index		g-index
85	85	85		5576
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Resveratrol Does Not Benefit Patients With Nonalcoholic Fatty Liver Disease. Clinical Gastroenterology and Hepatology, 2014, 12, 2092-2103.e6.	2.4	237
2	Effect of Rosiglitazone on Insulin Sensitivity and Body Composition in Type 2 Diabetic Patients. Obesity, 2002, 10, 1008-1015.	4.0	191
3	Magnetic resonance imaging and spectroscopy for monitoring liver steatosis. Journal of Magnetic Resonance Imaging, 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. Journal of Hepatology, 2009, 51, 389-397.	1.8	156
5	Geometric distortion in clinical MRI systems. Magnetic Resonance Imaging, 2004, 22, 1211-1221.	1.0	152
6	A novel phantom and method for comprehensive 3-dimensional measurement and correction of geometric distortion in magnetic resonance imaging. Magnetic Resonance Imaging, 2004, 22, 529-542.	1.0	146
7	Vertebral landmarks for the identification of spinal cord segments in the mouse. Neurolmage, 2013, 68, 22-29.	2.1	144
8	Use of spherical harmonic deconvolution methods to compensate for nonlinear gradient effects on MRI images. Magnetic Resonance in Medicine, 2004, 52, 115-122.	1.9	135
9	Cues to body size in the formant spacing of male koala (<i>Phascolarctos cinereus</i>) bellows: honesty in an exaggerated trait. Journal of Experimental Biology, 2011, 214, 3414-3422.	0.8	99
10	Impact of Epicardial Adipose Tissue, Left Ventricular Myocardial Fat Content, and Interstitial Fibrosis on Myocardial Contractile Function. Circulation: Cardiovascular Imaging, 2018, 11, e007372.	1.3	90
11	A three-dimensional digital atlas of the zebrafish brain. Neurolmage, 2010, 51, 76-82.	2.1	85
12	PSMA-targeting iron oxide magnetic nanoparticles enhance MRI of preclinical prostate cancer. Nanomedicine, 2015, 10, 375-386.	1.7	85
13	Functional anatomy of the caudal thoracolumbar and lumbosacral spine in the horse. Equine Veterinary Journal, 2006, 38, 393-399.	0.9	80
14	Molecular imaging of activated platelets via antibody-targeted ultra-small iron oxide nanoparticles displaying unique dual MRI contrast. Biomaterials, 2017, 134, 31-42.	5.7	78
15	Magnetic particle-mediated magnetoreception. Journal of the Royal Society Interface, 2015, 12, 20150499.	1.5	67
16	Geometric distortion in clinical MRI systems. Magnetic Resonance Imaging, 2004, 22, 1223-1232.	1.0	63
17	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
18	Longitudinal assessment of white matter pathology in the injured mouse spinal cord through ultra-high field (16.4T) in vivo diffusion tensor imaging. NeuroImage, 2013, 82, 574-585.	2.1	51

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19	Transgenic Muscle-Specific Nor-1 Expression Regulates Multiple Pathways That Effect Adiposity, Metabolism, and Endurance. Molecular Endocrinology, 2013, 27, 1897-1917.	3.7	50
20	Anti-staling of high-moisture starchy food: Effect of hydrocolloids, emulsifiers and enzymes on mechanics of steamed-rice cakes. Food Hydrocolloids, 2018, 83, 454-464.	5.6	41
21	In vivo Imaging and Biodistribution of Multimodal Polymeric Nanoparticles Delivered to the Optic Nerve. Small, 2012, 8, 1579-1589.	5.2	40
22	Non-invasive diffusion tensor imaging detects white matter degeneration in the spinal cord of a mouse model of amyotrophic lateral sclerosis. NeuroImage, 2011, 55, 455-461.	2.1	39
23	Rorα deficiency and decreased adiposity are associated with induction of thermogenic gene expression in subcutaneous white adipose and brown adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E159-E171.	1.8	38
24	Effects of magnetic field strength and particle aggregation on relaxivity of ultra-small dual contrast iron oxide nanoparticles. Materials Research Express, 2017, 4, 116105.	0.8	38
25	16 T Diffusion microimaging of fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2011, 66, 244-247.	1.9	37
26	Metal artifacts from titanium and steel screws in CT, 1.5T and 3T MR images of the tibial Pilon: a quantitative assessment in 3D. Quantitative Imaging in Medicine and Surgery, 2014, 4, 163-72.	1.1	37
27	Understanding the Uptake of Nanomedicines at Different Stages of Brain Cancer Using a Modular Nanocarrier Platform and Precision Bispecific Antibodies. ACS Central Science, 2020, 6, 727-738.	5.3	36
28	Non-destructive 1H-MRI assessment of flesh bruising in avocado (Persea americana M.) cv. Hass. Postharvest Biology and Technology, 2015, 100, 33-40.	2.9	35
29	Neuroanatomy and psychomimetic-induced locomotion in C57BL/6J and 129/X1SvJ mice exposed to developmental vitamin D deficiency. Behavioural Brain Research, 2012, 230, 125-131.	1.2	34
30	Microscopic diffusivity compartmentation in formalinâ€fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, 614-620.	1.9	34
31	Intrauterine growth restriction due to uteroplacental vascular insufficiency leads to increased hypoxia-induced cerebral apoptosis in newborn piglets. Brain Research, 2006, 1098, 19-25.	1.1	32
32	Quantitative Assessment of Brain Volumes in Fish: Comparison of Methodologies. Brain, Behavior and Evolution, 2010, 76, 261-270.	0.9	28
33	Magnetic resonance histology of the adult zebrafish brain: optimization of fixation and gadolinium contrast enhancement. NMR in Biomedicine, 2009, 23, n/a-n/a.	1.6	27
34	Magnetic Resonance Imaging: The Underlying Principles. Journal of Orthopaedic and Sports Physical Therapy, 2011, 41, 806-819.	1.7	27
35	Spinal cord metabolism and muscle water diffusion in whiplash. Spinal Cord, 2012, 50, 474-476.	0.9	24
36	EphA2 as a Diagnostic Imaging Target in Glioblastoma: A Positron Emission Tomography/Magnetic Resonance Imaging Study. Molecular Imaging, 2015, 14, 7290.2015.00008.	0.7	24

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37	Microscopic diffusion anisotropy in formalin fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 1943-1948.	1.9	23
38	Detection of endogenous iron deposits in the injured mouse spinal cord through highâ€resolution ⟨i⟩ex vivo⟨ i⟩ and ⟨i⟩in vivo⟨ i⟩ MRI. NMR in Biomedicine, 2013, 26, 141-150.	1.6	22
39	Switchable ¹⁹ F MRI polymer theranostics: towards in situ quantifiable drug release. Polymer Chemistry, 2017, 8, 5157-5166.	1.9	22
40	Increased cerebral lactate during hypoxia may be neuroprotective in newborn piglets with intrauterine growth restriction. Brain Research, 2007, 1179 , $79-88$.	1.1	21
41	Biexponential diffusion decay in formalinâ€fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 954-959.	1.9	21
42	23Na-NMR detects hypoxic injury in intact kidney: Increases in sodium inhibited by DMSO and DMTU. Magnetic Resonance in Medicine, 1993, 30, 465-475.	1.9	20
43	Diffusion-weighted imaging in the prostate: an apparent diffusion coefficient comparison of half-Fourier acquisition single-shot turbo spin-echo and echo planar imaging. Magnetic Resonance Imaging, 2012, 30, 189-194.	1.0	18
44	Rapid determination of vertebral fat fraction over a large range of vertebral bodies. Journal of Medical Imaging and Radiation Oncology, 2014, 58, 155-163.	0.9	18
45	MRI resolution enhancement: How useful are shifted images obtained by changing the demodulation frequency?. Magnetic Resonance in Medicine, 2011, 65, 664-672.	1.9	17
46	Engineering chitosan nano-cocktail containing iron oxide and ceria: A two-in-one approach for treatment of inflammatory diseases and tracking of material delivery. Materials Science and Engineering C, 2021, 131, 112477.	3.8	17
47	Serine isotopomer analysis by 13C-NMR defines glycine-serine interconversion in situ in the renal proximal tubule. Biochimica Et Biophysica Acta - Molecular Cell Research, 1996, 1310, 32-40.	1.9	16
48	Magnetic resonance microscopy of the barramundi (<i>Lates calcarifer</i>) brain. Journal of Morphology, 2010, 271, 1446-1456.	0.6	15
49	Low density lipoprotein cholesterol is inversely correlated with abdominal visceral fat area: a magnetic resonance imaging study. Lipids in Health and Disease, 2011, 10, 12.	1.2	15
50	An inverse design of an open, head/neck RF coil for MRI. IEEE Transactions on Biomedical Engineering, 2002, 49, 1024-1030.	2.5	14
51	Feasibility of functional magnetic resonance lung imaging in Australia with long distance transport of hyperpolarized helium from Germany. Respirology, 2008, 13, 599-602.	1.3	14
52	Ventilation distribution in rats: Part 2 – A comparison of electrical impedance tomography and hyperpolarised helium magnetic resonance imaging. BioMedical Engineering OnLine, 2012, 11, 68.	1.3	14
53	<i>Ski</i> Overexpression in Skeletal Muscle Modulates Genetic Programs That Control Susceptibility to Dietâ€Induced Obesity and Insulin Signaling. Obesity, 2012, 20, 2157-2167.	1.5	14
54	Effect of 1-h moderate-intensity aerobic exercise on intramyocellular lipids in obese men before and after a lifestyle intervention. Applied Physiology, Nutrition and Metabolism, 2015, 40, 1262-1268.	0.9	14

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55	Supramolecular Fluorine Magnetic Resonance Spectroscopy Probe Polymer Based on Passerini Bifunctional Monomer. ACS Macro Letters, 2019, 8, 1479-1483.	2.3	13
56	Understanding nanomedicine treatment in an aggressive spontaneous brain cancer model at the stage of early blood brain barrier disruption. Biomaterials, 2022, 283, 121416.	5.7	13
57	Regional proton nuclear magnetic resonance spectroscopy differentiates cortex and medulla in the isolated perfused rat kidney. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 151-158.	1.1	12
58	Magnetic resonance microimaging of the spinal cord in the SOD1 mouse model of amyotrophic lateral sclerosis detects motor nerve root degeneration. Neurolmage, 2011, 58, 69-74.	2.1	12
59	Temporally Altered miRNA Expression in a Piglet Model of Hypoxic Ischemic Brain Injury. Molecular Neurobiology, 2020, 57, 4322-4344.	1.9	12
60	Quantification of Intramyocardial Metabolites by Proton Magnetic Resonance Spectroscopy. Frontiers in Cardiovascular Medicine, 2015, 2, 24.	1.1	10
61	Multi-modal imaging and analysis in the search for iron-based magnetoreceptors in the honeybee <i>Apis mellifera</i> . Royal Society Open Science, 2018, 5, 181163.	1.1	9
62	Modulation of glycine-serine interconversion by TCA and glycolytic intermediates in normoxic and hypoxic proximal tubules. Biochimica Et Biophysica Acta - Molecular Cell Research, 1996, 1310, 41-47.	1.9	8
63	A prospective study of nomogram-based adaptation of prostate radiotherapy target volumes. Radiation Oncology, 2015, 10, 243.	1.2	8
64	Spinal multiparametric MRI and DEXA changes over time in men with prostate cancer treated with androgen deprivation therapy: a potential imaging biomarker of treatment toxicity. European Radiology, 2017, 27, 995-1003.	2.3	8
65	Airway closure is the predominant physiological mechanism of low ventilation seen on hyperpolarized helium-3 MRI lung scans. Journal of Applied Physiology, 2021, 130, 781-791.	1.2	8
66	Liver fat percent is associated with metabolic risk factors and the metabolic syndrome in a high-risk vascular cohort. Nutrition and Metabolism, 2010, 7, 50.	1.3	7
67	23Na NMR Detects Protection by Glycine and Alanine Against Hypoxic Injury in the Isolated Perfused Rat Kidney. Biochemical and Biophysical Research Communications, 1994, 202, 1639-1644.	1.0	5
68	Dorsal Digital Septum of the Distal Interphalangeal Joint. Journal of Hand Surgery, 2009, 34, 467-473.	0.7	5
69	Ventilation distribution in rats: Part I - The effect of gas composition as measured with electrical impedance tomography. BioMedical Engineering OnLine, 2012, 11, 64.	1.3	5
70	Correction of step artefact associated with MRI scanning of long bones. Medical Engineering and Physics, 2013, 35, 988-993.	0.8	5
71	Non-Invasive Monitoring of Sucrose Mobilization from Culm Storage Parenchyma by Magnetic Resonance Spectroscopy. Bioscience, Biotechnology and Biochemistry, 2013, 77, 487-496.	0.6	5
72	High-field magnetic resonance imaging using solenoid radiofrequency coils. Magnetic Resonance Imaging, 2012, 30, 1177-1185.	1.0	4

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73	Microscopic diffusion properties of fixed breast tissue: Preliminary findings. Magnetic Resonance in Medicine, 2015, 74, 1733-1739.	1.9	4
74	Can MRI accurately detect pilon articular malreduction? A quantitative comparison between CT and 3T MRI bone models. Quantitative Imaging in Medicine and Surgery, 2016, 6, 634-647.	1.1	4
75	A USPIO doped gel phantom for R2* relaxometry. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 15-27.	1.1	4
76	MR microscopy and microspectroscopy of the intact kidney. Concepts in Magnetic Resonance, 2004, 22A, 50-59.	1.3	3
77	The connective tissue and ligaments of the distal interphalangeal joint: a review and investigation using ultra-high field 16.4 Tesla magnetic resonance imaging. Journal of Hand Surgery: European Volume, 2014, 39, 398-404.	0.5	3
78	Cortical and medullary betaine-GPC modulated by osmolality independently of oxygen in the intact kidney. American Journal of Physiology - Renal Physiology, 1999, 277, F338-F346.	1.3	2
79	Fast parallel image reconstruction using smacker for functional magnetic resonance imaging. , 2008, , .		2
80	MRI demodulation frequency changes provide different information. Magnetic Resonance in Medicine, 2011, 66, 1513-1514.	1.9	2
81	Magnetic Resonance Spectroscopy Assessment of Brain Metabolite Concentrations in Individuals With Chronic Whiplash-associated Disorder. Clinical Journal of Pain, 2021, 37, 28-37.	0.8	2
82	An Approach of Deriving Relative Sensitivity Profiles for Image Reconstruction in MRI. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 817-827.	7.3	1
83	Combined approach for non-invasive measurement of liver pathology by MR. Journal of Hepatology, 2009, 51, 1083-1084.	1.8	1
84	Volume Localised1H MRS of Renal Osmolytes. , 0, , 431-437.		0