

Joel R Garbow

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,639
citations

331670

21
h-index

302126

39
g-index

55
all docs

55
docs citations

55
times ranked

2737
citing authors

#	ARTICLE	IF	CITATIONS
1	A complementâ€microglial axis drives synapse loss during virus-induced memory impairment. <i>Nature</i> , 2016, 534, 538-543.	27.8	534
2	Hyperpolarized ³ He MRI of mouse lung. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1310-1317.	3.0	64
3	Anti-VEGF Antibodies Mitigate the Development of Radiation Necrosis in Mouse Brain. <i>Clinical Cancer Research</i> , 2014, 20, 2695-2702.	7.0	64
4	Exponential parameter estimation (in NMR) using Bayesian probability theory. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2005, 27A, 55-63.	0.5	60
5	Intracellular water preexchange lifetime in neurons and astrocytes. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1616-1627.	3.0	51
6	Detection of Primary Lung Tumors in Rodents by Magnetic Resonance Imaging. <i>Cancer Research</i> , 2004, 64, 2740-2742.	0.9	49
7	Diffusion-weighted and dynamic contrast-enhanced imaging as markers of clinical behavior in children with optic pathway glioma. <i>Pediatric Radiology</i> , 2008, 38, 1293-1299.	2.0	49
8	Estimation of material parameters from slow and fast shear waves in an incompressible, transversely isotropic material. <i>Journal of Biomechanics</i> , 2015, 48, 4002-4009.	2.1	46
9	Minoxidil improves vascular compliance, restores cerebral blood flow, and alters extracellular matrix gene expression in a model of chronic vascular stiffness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H18-H32.	3.2	44
10	O ₂ -sensitive MRI distinguishes brain tumor versus radiation necrosis in murine models. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2442-2447.	3.0	43
11	Are complex DCEâ€MRI models supported by clinical data?. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1329-1339.	3.0	40
12	OSM potentiates preinvasation events, increases CTC counts, and promotes breast cancer metastasis to the lung. <i>Breast Cancer Research</i> , 2018, 20, 53.	5.0	38
13	A MYT1L syndrome mouse model recapitulates patient phenotypes and reveals altered brain development due to disrupted neuronal maturation. <i>Neuron</i> , 2021, 109, 3775-3792.e14.	8.1	34
14	A Gamma-Knife-Enabled Mouse Model of Cerebral Single-Hemisphere Delayed Radiation Necrosis. <i>PLoS ONE</i> , 2015, 10, e0139596.	2.5	31
15	Quantitative Monitoring of Adenocarcinoma Development in Rodents by Magnetic Resonance Imaging. <i>Clinical Cancer Research</i> , 2008, 14, 1363-1367.	7.0	30
16	Toward Distinguishing Recurrent Tumor From Radiation Necrosis: DWI and MTC in a Gamma Knifeâ€Irradiated Mouse Glioma Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 446-453.	0.8	27
17	A simple, robust hardware device for passive or active respiratory gating in MRI and MRS experiments. <i>Concepts in Magnetic Resonance</i> , 2004, 21B, 40-48.	1.3	26
18	Exponential model selection (in NMR) using Bayesian probability theory. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2005, 27A, 64-72.	0.5	26

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19	Inhibitors of HIF-1 α and CXCR4 Mitigate the Development of Radiation Necrosis in Mouse Brain. International Journal of Radiation Oncology Biology Physics, 2018, 100, 1016-1025.	0.8	25
20	A magnetic resonance imaging study of early brain injury in a rat model of acute DFP intoxication. NeuroToxicology, 2018, 66, 170-178.	3.0	25
21	Late Effects of Radiation Prime the Brain Microenvironment for Accelerated Tumor Growth. International Journal of Radiation Oncology Biology Physics, 2019, 103, 190-194.	0.8	25
22	MR Imaging α derived Oxygen-Hemoglobin Dissociation Curves and Fetal-Placental Oxygen-Hemoglobin Affinities. Radiology, 2016, 280, 68-77.	7.3	24
23	Effects of an artificial placenta on brain development and injury in premature lambs. Journal of Pediatric Surgery, 2018, 53, 1234-1239.	1.6	22
24	Asthma reduces glioma formation by T cell decorin-mediated inhibition of microglia. Nature Communications, 2021, 12, 7122.	12.8	21
25	A GSK-3 β Inhibitor Protects Against Radiation Necrosis in Mouse Brain. International Journal of Radiation Oncology Biology Physics, 2014, 89, 714-721.	0.8	20
26	Comparison of hyperpolarized ¹³ C and non α hyperpolarized deuterium MRI approaches for imaging cerebral glucose metabolism at 4.7 T. Magnetic Resonance in Medicine, 2021, 85, 1795-1804.	3.0	20
27	Actively decoupled transmit α receive coil α pair for mouse brain MRI. Concepts in Magnetic Resonance Part B, 2008, 33B, 252-259.	0.7	19
28	Can anti-vascular endothelial growth factor antibody reverse radiation necrosis? A preclinical investigation. Journal of Neuro-Oncology, 2017, 133, 9-16.	2.9	16
29	Assessing Mucosal Inflammation in a DSS-Induced Colitis Mouse Model by MR Colonography. Tomography, 2018, 4, 4-13.	1.8	16
30	Discriminating radiation injury from recurrent tumor with [18F]PARPi and amino acid PET in mouse models. EJNMMI Research, 2018, 8, 59.	2.5	16
31	Perfluorocarbon emulsions radiosensitize brain tumors in carbogen breathing mice with orthotopic GL261 gliomas. PLoS ONE, 2017, 12, e0184250.	2.5	16
32	Specificity of vascular endothelial growth factor treatment for radiation necrosis. Radiotherapy and Oncology, 2015, 117, 382-385.	0.6	14
33	Estimation of Anisotropic Material Properties of Soft Tissue by MRI of Ultrasound-Induced Shear Waves. Journal of Biomechanical Engineering, 2020, 142, .	1.3	13
34	Perilesional edema in radiation necrosis reflects axonal degeneration. Radiation Oncology, 2015, 10, 33.	2.7	12
35	Alteration of Cellular Reduction Potential Will Change ⁶⁴ Cu-ATSM Signal With or Without Hypoxia. Journal of Nuclear Medicine, 2020, 61, 427-432.	5.0	11
36	¹⁵ N α -carnitine, a novel endogenous hyperpolarized MRI probe with long signal lifetime. Magnetic Resonance in Medicine, 2021, 85, 1814-1820.	3.0	11

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37	Comparative Uptake and Biological Distribution of [¹⁸ F]-Labeled C6 and C8 Perfluorinated Alkyl Substances in Pregnant Mice via Different Routes of Administration. <i>Environmental Science and Technology Letters</i> , 2020, 7, 665-671.	8.7	10
38	Magnetic Resonance Imaging Defines Cervicovaginal Anatomy, Cancer, and VEGF Trap Antiangiogenic Efficacy in Estrogen-Treated K14-HPV16 Transgenic Mice. <i>Cancer Research</i> , 2009, 69, 7945-7952.	0.9	8
39	Estimation of the mechanical properties of a transversely isotropic material from shear wave fields via artificial neural networks. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105046.	3.1	7
40	Synthesis and Characterization of a Gd-DOTA- ^D-Permeation Peptide for Magnetic Resonance Relaxation Enhancement of Intracellular Targets. <i>Molecular Imaging</i> , 2003, 2, 153535002003031.	1.4	6
41	Modeling Dynamic Contrast-Enhanced MRI Data with a Constrained Local AIF. <i>Molecular Imaging and Biology</i> , 2018, 20, 150-159.	2.6	5
42	Irradiation-Modulated Murine Brain Microenvironment Enhances GL261-Tumor Growth and Inhibits Anti-PD-L1 Immunotherapy. <i>Frontiers in Oncology</i> , 2021, 11, 693146.	2.8	5
43	Bayesian Modeling of NMR Data: Quantifying Longitudinal Relaxation in Vivo, and in Vitro with a Tissue-Water-Relaxation Mimic (Crosslinked Bovine Serum Albumin). <i>Applied Magnetic Resonance</i> , 2018, 49, 3-24.	1.2	4
44	Radiolabeled 6-(2, 3-Dichlorophenyl)-N4-methylpyrimidine-2, 4-diamine (TH287): A Potential Radiotracer for Measuring and Imaging MTH1. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8860.	4.1	3
45	Dynamic Contrast Enhancement (DCE) MRIâ€™Derived Renal Perfusion and Filtration: Basic Concepts. <i>Methods in Molecular Biology</i> , 2021, 2216, 205-227.	0.9	3
46	Metabolite-Specific Echo-Planar Imaging of Hyperpolarized [1- ¹³ C]Pyruvate at 4.7 T. <i>Tomography</i> , 2021, 7, 466-476.	1.8	2
47	Preclinical MRI: Studies of the irradiated brain. <i>Journal of Magnetic Resonance</i> , 2018, 292, 73-81.	2.1	1
48	Analysis Protocol for Dynamic Contrast Enhanced (DCE) MRI of Renal Perfusion and Filtration. <i>Methods in Molecular Biology</i> , 2021, 2216, 637-653.	0.9	1
49	Strain differences in the extent of brain injury in mice after tetramethylenedisulfotetramine-induced status epilepticus. <i>NeuroToxicology</i> , 2021, 87, 43-50.	3.0	1
50	Multi-band echo-planar spectroscopic imaging of hyperpolarized ¹³ C probes in a compact preclinical PET/MR scanner. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2120-2129.	3.0	1
51	O2-sensitive MRI distinguishes brain tumor versus radiation necrosis in murine models. <i>Magnetic Resonance in Medicine</i> , 2016, 75, spcone-spcone.	3.0	0
52	IMMU-05. LATE EFFECTS OF INTRACRANIAL RADIATION INDUCES RESISTANCE TO IMMUNE CHECKPOINT BLOCKADE THERAPY THAT IS PARTIALLY REVERSIBLE WITH CSF-1R INHIBITION. <i>Neuro-Oncology</i> , 2018, 20, vi122-vi122.	1.2	0
53	Longitudinal preclinical magnetic resonance imaging of diffuse tumor burden in intramedullary myeloma following bortezomib therapy. <i>NMR in Biomedicine</i> , 2019, 32, e4122.	2.8	0
54	Connexin43 Expression and Associated Chronic Inflammation Presages the Development of Cerebral Radiation Necrosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 791-799.	1.7	0

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55	Editorial on "Ex vivo MRI of the Normal Human Placenta: Structural-Functional Interplay and the Association With Birth Weight", Journal of Magnetic Resonance Imaging, 2022, 56, 145-146.	3.4	0