

Miriam Scadeng

List of Publications by Year in descending order

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92
papers

4,919
citations

126708

33
h-index

91712

69
g-index

95
all docs

95
docs citations

95
times ranked

11265
citing authors

#	ARTICLE	IF	CITATIONS
1	Activatable cell penetrating peptides linked to nanoparticles as dual probes for in vivo fluorescence and MR imaging of proteases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4311-4316.	3.3	524
2	JNK1 in Hematopoietically Derived Cells Contributes to Diet-Induced Inflammation and Insulin Resistance without Affecting Obesity. <i>Cell Metabolism</i> , 2007, 6, 386-397.	7.2	460
3	Surgery with molecular fluorescence imaging using activatable cell-penetrating peptides decreases residual cancer and improves survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4317-4322.	3.3	454
4	Development of a novel mouse glioma model using lentiviral vectors. <i>Nature Medicine</i> , 2009, 15, 110-116.	15.2	289
5	Targeting LIF-mediated paracrine interaction for pancreatic cancer therapy and monitoring. <i>Nature</i> , 2019, 569, 131-135.	13.7	287
6	Cortical depth-specific microvascular dilation underlies laminar differences in blood oxygenation level-dependent functional MRI signal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15246-15251.	3.3	267
7	Adipocyte NCoR Knockout Decreases PPAR β Phosphorylation and Enhances PPAR β Activity and Insulin Sensitivity. <i>Cell</i> , 2011, 147, 815-826.	13.5	246
8	Maintenance of Metabolic Homeostasis by Sestrin2 and Sestrin3. <i>Cell Metabolism</i> , 2012, 16, 311-321.	7.2	242
9	Image-based detection and targeting of therapy resistance in pancreatic adenocarcinoma. <i>Nature</i> , 2016, 534, 407-411.	13.7	114
10	Bone marrow-specific Cap gene deletion protects against high-fat diet-induced insulin resistance. <i>Nature Medicine</i> , 2007, 13, 455-462.	15.2	110
11	Vaccinia virus-mediated melanin production allows MR and optoacoustic deep tissue imaging and laser-induced thermotherapy of cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3316-3320.	3.3	109
12	The glial cell response is an essential component of hypoxia-induced erythropoiesis in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 3373-83.	3.9	82
13	Chronic Spinal Compression Model in Minipigs: A Systematic Behavioral, Qualitative, and Quantitative Neuropathological Study. <i>Journal of Neurotrauma</i> , 2012, 29, 499-513.	1.7	74
14	Enhanced Magnetic Resonance Contrast of Fe ₃ O ₄ Nanoparticles Trapped in a Porous Silicon Nanoparticle Host. <i>Advanced Materials</i> , 2011, 23, H248-53.	11.1	68
15	Induction of in vivo synthetic lethal RNAi responses to treat glioblastoma. <i>Cancer Biology and Therapy</i> , 2009, 8, 2304-2311.	1.5	67
16	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , 2016, 12, 668-677.	5.2	64
17	Functional imaging of dolphin brain metabolism and blood flow. <i>Journal of Experimental Biology</i> , 2006, 209, 2902-2910.	0.8	63
18	Development of Diabetes in Mice with Neuronal Deletion of Shp2 Tyrosine Phosphatase. <i>American Journal of Pathology</i> , 2008, 172, 1312-1324.	1.9	63

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19	A murine model of inflammation-induced cerebral microbleeds. <i>Journal of Neuroinflammation</i> , 2016, 13, 218.	3.1	61
20	Spatial Cognition in Adult and Aged Mice Exposed to High-Fat Diet. <i>PLoS ONE</i> , 2015, 10, e0140034.	1.1	59
21	Analysis of Dosing Regimen and Reproducibility of Intraspinal Grafting of Human Spinal Stem Cells in Immunosuppressed Minipigs. <i>Cell Transplantation</i> , 2010, 19, 1103-1122.	1.2	52
22	G protein-coupled receptor 21 deletion improves insulin sensitivity in diet-induced obese mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 2444-2453.	3.9	49
23	Awake Mouse Imaging: From Two-Photon Microscopy to Blood Oxygen Level-Dependent Functional Magnetic Resonance Imaging. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 533-542.	1.1	49
24	Role of Meningeal Mast Cells in Intrathecal Morphine-evoked Granuloma Formation. <i>Anesthesiology</i> , 2013, 118, 664-678.	1.3	46
25	Magnetic resonance and fluorescence imaging of doxorubicin-loaded nanoparticles using a novel in vivo model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 797-807.	1.7	44
26	Skeletal myofiber vascular endothelial growth factor is required for the exercise training-induced increase in dentate gyrus neuronal precursor cells. <i>Journal of Physiology</i> , 2017, 595, 5931-5943.	1.3	44
27	Apathy is associated with white matter abnormalities in anterior, medial brain regions in persons with HIV infection. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2014, 36, 854-866.	0.8	42
28	p75 Neurotrophin Receptor Regulates Energy Balance in Obesity. <i>Cell Reports</i> , 2016, 14, 255-268.	2.9	42
29	Aspergillus infection of the respiratory tract after lung transplantation: chest radiographic and CT findings. <i>European Radiology</i> , 1998, 8, 306-312.	2.3	39
30	Direct comparison of visual cortex activation in human and non-human primates using functional magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , 2001, 107, 71-80.	1.3	39
31	Magnetic resonance imaging of the visual system in vivo: Transsynaptic illumination of V1 and V2 visual cortex. <i>NeuroImage</i> , 2007, 34, 1619-1626.	2.1	37
32	Magnetic Resonance Imaging of Tumors Colonized with Bacterial Ferritin-Expressing Escherichia coli. <i>PLoS ONE</i> , 2011, 6, e25409.	1.1	36
33	Effect of proton pump inhibition on the gastric volume: assessed by magnetic resonance imaging. <i>Alimentary Pharmacology and Therapeutics</i> , 2009, 29, 863-870.	1.9	35
34	Depression and executive dysfunction contribute to a metamemory deficit among individuals with methamphetamine use disorders. <i>Addictive Behaviors</i> , 2015, 40, 45-50.	1.7	34
35	Sustained high-altitude hypoxia increases cerebral oxygen metabolism. <i>Journal of Applied Physiology</i> , 2013, 114, 11-18.	1.2	31
36	Rat airway morphometry measured from in situ MRI-based geometric models. <i>Journal of Applied Physiology</i> , 2012, 112, 1921-1931.	1.2	28

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37	Persistent neurocognitive decline in a clinic sample of hepatitis C virus-infected persons receiving interferon and ribavirin treatment. <i>Journal of NeuroVirology</i> , 2014, 20, 561-570.	1.0	28
38	Regional Distribution of Aerosol Deposition in Rat Lungs Using Magnetic Resonance Imaging. <i>Annals of Biomedical Engineering</i> , 2013, 41, 967-978.	1.3	27
39	Behavioral effects of chronic methamphetamine treatment in HIV-1 gp120 transgenic mice. <i>Behavioural Brain Research</i> , 2013, 236, 210-220.	1.2	27
40	Penguin lungs and air sacs: implications for baroprotection, oxygen stores and buoyancy. <i>Journal of Experimental Biology</i> , 2015, 218, 720-730.	0.8	26
41	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. <i>Chemical Science</i> , 2016, 7, 4230-4236.	3.7	26
42	Altered Functional Response to Risky Choice in HIV Infection. <i>PLoS ONE</i> , 2014, 9, e111583.	1.1	26
43	MRI-based measurements of aerosol deposition in the lung of healthy and elastase-treated rats. <i>Journal of Applied Physiology</i> , 2014, 116, 1561-1568.	1.2	23
44	Multiple spatially related pharmacophores define small molecule inhibitors of OLIG2 in glioblastoma. <i>Oncotarget</i> , 2017, 8, 22370-22384.	0.8	23
45	Cerebral Diffusion and T_2 : MRI Predictors of Acute Mountain Sickness during Sustained High-Altitude Hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 372-380.	2.4	22
46	<i>Clostridium perfringens</i> septicemia in a long-beaked common dolphin <i>Delphinus capensis</i> : an etiology of gas bubble accumulation in cetaceans. <i>Diseases of Aquatic Organisms</i> , 2014, 111, 183-190.	0.5	22
47	Elevated Neurobehavioral Symptoms Are Associated With Everyday Functioning Problems in Chronic Methamphetamine Users. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2012, 24, 331-339.	0.9	20
48	Diffusion tractography reveals pervasive asymmetry of cerebral white matter tracts in the bottlenose dolphin (<i>Tursiops truncatus</i>). <i>Brain Structure and Function</i> , 2018, 223, 1697-1711.	1.2	20
49	Doxycycline Inducible Melanogenic Vaccinia Virus as Theranostic Anti-Cancer Agent. <i>Theranostics</i> , 2015, 5, 1045-1057.	4.6	19
50	High resolution magnetic resonance imaging of the brain in the <i>dy/dy</i> mouse with merosin-deficient congenital muscular dystrophy. <i>Neuromuscular Disorders</i> , 2000, 10, 292-298.	0.3	17
51	Intrathecal Catheterization and Drug Delivery in Guinea Pigs. <i>Anesthesiology</i> , 2016, 125, 378-394.	1.3	17
52	3D amplified MRI (aMRI). <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1674-1686.	1.9	17
53	High-Resolution Three-Dimensional Magnetic Resonance Imaging of Mouse Lung In Situ. <i>Investigative Radiology</i> , 2007, 42, 50-57.	3.5	14
54	Dipeptidyl peptidase IV inhibitor lowers PPAR α agonist-induced body weight gain by affecting food intake, fat mass, and beige/brown fat but not fluid retention. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E388-E398.	1.8	14

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55	Neuroanatomy of the killer whale (<i>Orcinus orca</i>): a magnetic resonance imaging investigation of structure with insights on function and evolution. <i>Brain Structure and Function</i> , 2017, 222, 417-436.	1.2	14
56	Four-dimensional flow cardiovascular magnetic resonance in tetralogy of Fallot: a systematic review. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 59.	1.6	14
57	Superiority of 3D wavelet-packet denoising in MR microscopy. <i>Magnetic Resonance Imaging</i> , 2003, 21, 913-921.	1.0	12
58	Manipulating the Mandibular Distraction Site at Different Stages of Consolidation. <i>Journal of Oral and Maxillofacial Surgery</i> , 2007, 65, 840-846.	0.5	12
59	Development, calibration, and testing of 3D amplified MRI (aMRI) for the quantification of intrinsic brain motion. <i>Brain Multiphysics</i> , 2021, 2, 100022.	0.8	12
60	Doxycycline treatment prevents alveolar destruction in VEGF α -deficient mouse lung. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 525-535.	1.2	11
61	Ocular integrity following manganese labeling of the visual system for MRI. <i>Magnetic Resonance Imaging</i> , 2013, 31, 865-874.	1.0	11
62	Increase in relative deposition of fine particles in the rat lung periphery in the absence of gravity. <i>Journal of Applied Physiology</i> , 2014, 117, 880-886.	1.2	10
63	A Frameless Stereotaxic MRI Technique for Macaque Neuroscience Studies. <i>Open Neuroimaging Journal</i> , 2011, 5, 198-205.	0.2	10
64	Evidence from high-altitude acclimatization for an integrated cerebrovascular and ventilatory hypercapnic response but different responses to hypoxia. <i>Journal of Applied Physiology</i> , 2017, 123, 1477-1486.	1.2	9
65	Morphology of the Amazonian Teleost Genus <i>Arapaima</i> Using Advanced 3D Imaging. <i>Frontiers in Physiology</i> , 2020, 11, 260.	1.3	9
66	Respiratory mechanics and morphology of Tibetan and Andean high-altitude geese with divergent life histories. <i>Journal of Experimental Biology</i> , 2017, 221, .	0.8	8
67	Right Ventricular Flow Vorticity Relationships With Biventricular Shape in Adult Tetralogy of Fallot. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 806107.	1.1	8
68	Microstructural changes to the brain of mice after methamphetamine exposure as identified with diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , 2016, 249, 27-37.	0.9	7
69	Abstinence from ethanol dependence produces concomitant cortical gray matter abnormalities, microstructural deficits and cognitive dysfunction. <i>European Neuropsychopharmacology</i> , 2021, 42, 22-34.	0.3	7
70	Functional magnetic resonance imaging for <i>in vivo</i> quantification of pulmonary hypertension in the Sugen 5416/hypoxia mouse. <i>Experimental Physiology</i> , 2017, 102, 347-353.	0.9	6
71	Micro-CT guided illustration of the head anatomy of penguins (Aves: Sphenisciformes: Spheniscidae). <i>Journal of Morphology</i> , 2022, 283, 827-851.	0.6	5
72	Predictors of attrition in a cohort study of HIV infection and methamphetamine dependence. <i>Journal of Substance Use</i> , 2015, 20, 407-416.	0.3	4

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73	Cervical air sac oxygen profiles in diving emperor penguins: parabronchial ventilation and the respiratory oxygen store. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	3
74	Development of AMPA receptor and GABA B receptor-sensitive spinal hyper-reflexia after spinal air embolism in rat: A systematic neurological, electrophysiological and qualitative histopathological study. <i>Experimental Neurology</i> , 2012, 237, 26-35.	2.0	2
75	Analyzing the changes in the brain material properties after a mild traumatic brain injuryâ€”A pilot study. <i>Engineering Reports</i> , 2021, 3, e12332.	0.9	2
76	Preliminary biomechanical cadaver study investigating a new load-sharing knee implant. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 61.	0.8	1
77	Dipeptidyl peptidaseâ€”4 inhibitor lowers PPAR β agonistâ€”induced body weight gain by affecting food intake, fat mass and beige/brown fat but not fluid retention (1160.9). <i>FASEB Journal</i> , 2014, 28, 1160.9.	0.2	1
78	864 Effect of Proton Pump Inhibitor On the Gastric Volume: Assessed By Magnetic Resonance Imaging. <i>Gastroenterology</i> , 2008, 134, A-127.	0.6	0
79	Determination of Pulmonary Deposition of Inhaled Particles in a Rat Lung by Magnetic Resonance Imaging. , 2009, , .		0
80	Image-Based Morphometry and Airflow Simulation in Rat Lungs. , 2010, , .		0
81	INTER-ANIMAL VARIABILITY IN THE MEASUREMENT OF AIRWAY MORPHOMETRY BY MAGNETIC RESONANCE IMAGING. , 2010, , .		0
82	Aerosol Deposition In Healthy And Emphysematous Rat Lungs Measured With MRI. , 2011, , .		0
83	Central To Peripheral Deposition Ratio Of Inhaled Aerosols Is Less In Microgravity Than In Normal Gravity. , 2012, , .		0
84	Reassessing the role of the human chorionic gonadotropin (hCG) discriminatory zone in the evaluation of patients with a pregnancy of unknown location. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, S113-S114.	0.7	0
85	DTI-identified microstructural changes in the gray matter of mice overexpressing CRF in the forebrain. <i>Psychiatry Research - Neuroimaging</i> , 2020, 304, 111137.	0.9	0
86	Flow vorticity relationships with right ventricular geometry in adult tetralogy of Fallot. <i>European Heart Journal</i> , 2021, 42, .	1.0	0
87	Development of Diabetesity in Mice with Panâ€”Neuronal Deletion of Shp2. <i>FASEB Journal</i> , 2008, 22, 1166.3.	0.2	0
88	The role of skeletal myofiber VEGF in the cerebral neurogenic response to exercise (706.21). <i>FASEB Journal</i> , 2014, 28, 706.21.	0.2	0
89	Quantitative Functional Cardiac Magnetic Resonance Imaging in Mice with Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2015, 29, 662.8.	0.2	0
90	Grey matter dysmyelination during abstinence in ethanol dependence. <i>FASEB Journal</i> , 2018, 32, 821.7.	0.2	0

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91	Abstract A01: Stem cell signals in the initiation and progression of non-small cell lung cancer., 2018, .		0
92	Abstract 215: A Systemic Inflammation-Induced Mouse Model of Cerebral Microbleeds. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	1.1	0