

# Uwe Himmelreich

## List of Publications by Year in descending order

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Version: 2024-02-01

245  
papers

9,095  
citations

57758

44  
h-index

60623

81  
g-index

251  
all docs

251  
docs citations

251  
times ranked

15249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myocardial ischemia-reperfusion injury and the influence of inflammation. Trends in Cardiovascular Medicine, 2023, 33, 357-366.	4.9	70
2	Fluorine MR Imaging Probes Dynamic Migratory Profiles of Perfluorocarbon-Loaded Dendritic Cells After Streptozotocin-Induced Inflammation. Molecular Imaging and Biology, 2022, 24, 321-332.	2.6	5
3	Multimodal in vivo Imaging of the Integrated Postnatal Development of Brain and Skull and Its Co-modulation With Neurodevelopment in a Down Syndrome Mouse Model. Frontiers in Medicine, 2022, 9, 815739.	2.6	4
4	Inflammatory Blood Biomarker Kynurenine Is Linked With Elevated Neuroinflammation and Neurodegeneration in Older Adults: Evidence From Two 1H-MRS Post-Processing Analysis Methods. Frontiers in Psychiatry, 2022, 13, 859772.	2.6	12
5	Astrocyte-targeted gene delivery of interleukin 2 specifically increases brain-resident regulatory T cell numbers and protects against pathological neuroinflammation. Nature Immunology, 2022, 23, 878-891.	14.5	59
6	Radiotherapy, Temozolomide, and Antiprogrammed Cell Death Protein 1 Treatments Modulate the Immune Microenvironment in Experimental High-Grade Glioma. Neurosurgery, 2021, 88, E205-E215.	1.1	17
7	Ultrasmall iron oxide nanoparticles functionalized with BODIPY derivatives as potential bimodal probes for MRI and optical imaging. Nano Select, 2021, 2, 406-416.	3.7	3
8	Trehalose as quantitative biomarker for in vivo diagnosis and treatment follow-up in cryptococcomas. Translational Research, 2021, 230, 111-122.	5.0	11
9	CryptoCEST: A promising tool for spatially resolved identification of fungal brain lesions and their differentiation from brain tumors with MRI. Neurolmage: Clinical, 2021, 31, 102737.	2.7	5
10	Safety and Homing of Human Dental Pulp Stromal Cells in Head and Neck Cancer. Stem Cell Reviews and Reports, 2021, 17, 1619-1634.	3.8	4
11	Biocompatible magnetic gelatin nanoparticles with enhanced MRI contrast performance prepared by single-step desolvation method. Nano Express, 2021, 2, 020011.	2.4	7
12	Contribution of preclinical MRI to responsible animal research: living up to the 3R principle. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 469-474.	2.0	10
13	Non-Invasive Evaluation of Cerebral Microvasculature Using Pre-Clinical MRI: Principles, Advantages and Limitations. Diagnostics, 2021, 11, 926.	2.6	11
14	Synthetic Antiferromagnetic Gold Nanoparticles as Bimodal Contrast Agents in MRI and CTâ€”An Experimental In Vitro and In Vivo Study. Pharmaceutics, 2021, 13, 1494.	4.5	4
15	OUP accepted manuscript. Cerebral Cortex, 2021, , .	2.9	1
16	Label-Free Iron Oxide Nanoparticles as Multimodal Contrast Agents in Cells Using Multi-Photon and Magnetic Resonance Imaging. International Journal of Nanomedicine, 2021, Volume 16, 8375-8389.	6.7	6
17	Abstract 9552: RNA Sequencing of Cardiac and Renal Tissue in a Rat Model of Chronic Kidney Disease Reveals Chronodisruption as Common Pathway. Circulation, 2021, 144, .	1.6	0
18	Quantitative Assessment of Age-Associated Alterations in Brain Vasculature in Wild-Type Mice and in Bigenic Mice that Model Alzheimerâ€™s Disease. Molecular Imaging and Biology, 2020, 22, 578-586.	2.6	2

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19	Neurometabolic Correlates of Reactive and Proactive Motor Inhibition in Young and Older Adults: Evidence from Multiple Regional 1H-MR Spectroscopy. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa028.	1.6	7
20	Metabolomic profiling of aqueous humor from glaucoma patients - The metabolomics in surgical ophthalmological patients (MISO) study. <i>Experimental Eye Research</i> , 2020, 201, 108268.	2.6	24
21	The Added Value of Longitudinal Imaging for Preclinical <i>In Vivo</i> Efficacy Testing of Therapeutic Compounds against Cerebral Cryptococcosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	10
22	Non-invasive characterization of amyotrophic lateral sclerosis in a hTDP-43A315T mouse model: A PET-MR study. <i>NeuroImage: Clinical</i> , 2020, 27, 102327.	2.7	9
23	Heterogeneous Effects of Calorie Content and Nutritional Components Underlie Dietary Influence on Pancreatic Cancer Susceptibility. <i>Cell Reports</i> , 2020, 32, 107880.	6.4	6
24	ViceCT and whiceCT for simultaneous high-resolution visualization of craniofacial, brain and ventricular anatomy from micro-computed tomography. <i>Scientific Reports</i> , 2020, 10, 18772.	3.3	4
25	Assessment of the Theranostic Potential of Gold Nanostars: A Multimodal Imaging and Photothermal Treatment Study. <i>Nanomaterials</i> , 2020, 10, 2112.	4.1	10
26	Characterization of a preclinical PET insert in a 7 tesla MRI scanner: beyond NEMA testing. <i>Physics in Medicine and Biology</i> , 2020, 65, 245016.	3.0	39
27	Folic Acid Fortification Prevents Morphological and Behavioral Consequences of X-Ray Exposure During Neurulation. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 609660.	2.0	5
28	Simultaneous in vivo PET/MRI using fluorine-18 labeled Fe <sub>3</sub> O <sub>4</sub> @Al(OH) <sub>3</sub> nanoparticles: comparison of nanoparticle and nanoparticle-labeled stem cell distribution. <i>EJNMMI Research</i> , 2020, 10, 73.	2.5	28
29	Radiation dose-escalation and dose-fractionation modulate the immune microenvironment, cancer stem cells and vasculature in experimental high-grade gliomas. <i>Journal of Neurosurgical Sciences</i> , 2020, , .	0.6	10
30	Effects of alcohol exposure on the glutamatergic system: a combined longitudinal <sup>18</sup> F-PEB and <sup>1</sup> H-MRS study in rats. <i>Addiction Biology</i> , 2019, 24, 696-706.	2.6	17
31	Targeting tumor cells and neovascularization using RGD-functionalized magnetoliposomes. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5911-5924.	6.7	29
32	Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a 1H-MRS study. <i>NeuroImage</i> , 2019, 202, 116050.	4.2	22
33	Longitudinal <i>In Vivo</i> Assessment of Host-Microbe Interactions in a Murine Model of Pulmonary Aspergillosis. <i>IScience</i> , 2019, 20, 184-194.	4.1	7
34	Combined enzymatic degradation of proteoglycans and collagen significantly alters intratissue strains in articular cartilage during cyclic compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 383-394.	3.1	24
35	Low-Dose Imaging in a New Preclinical Total-Body PET/CT Scanner. <i>Frontiers in Medicine</i> , 2019, 6, 88.	2.6	19
36	Sensitive bioluminescence imaging of fungal dissemination to the brain in mouse models of cryptococcosis. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	28

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37	Motor cortex metabolite alterations in amyotrophic lateral sclerosis assessed in vivo using edited and non-edited magnetic resonance spectroscopy. <i>Brain Research</i> , 2019, 1718, 22-31.	2.2	24
38	Early neuropathological and neurobehavioral consequences of preterm birth in a rabbit model. <i>Scientific Reports</i> , 2019, 9, 3506.	3.3	20
39	CT-2A neurospheres-derived high-grade glioma in mice: a new model to address tumor stem cells and immunosuppression. <i>Biology Open</i> , 2019, 8, .	1.2	12
40	Development of Superparamagnetic Nanoparticles Coated with Polyacrylic Acid and Aluminum Hydroxide as an Efficient Contrast Agent for Multimodal Imaging. <i>Nanomaterials</i> , 2019, 9, 1626.	4.1	59
41	Monitoring of Fluconazole and Caspofungin Activity against <i>In Vivo</i> <i>Candida glabrata</i> Biofilms by Bioluminescence Imaging. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	22
42	Challenges for labeling and longitudinal tracking of adoptively transferred autoreactive T lymphocytes in an experimental type-1 diabetes model. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 295-305.	2.0	9
43	Tensor-Based Method for Residual Water Suppression in $^1\text{H}$ Magnetic Resonance Spectroscopic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 584-594.	4.2	5
44	Noninvasive Monitoring of Suicide Gene Therapy by Using Multimodal Molecular Imaging. <i>Methods in Molecular Biology</i> , 2019, 1895, 123-134.	0.9	2
45	Longitudinal assessment of cerebral perfusion and vascular response to hypoventilation in a bigenic mouse model of Alzheimer's disease with amyloid and tau pathology. <i>NMR in Biomedicine</i> , 2019, 32, e4037.	2.8	11
46	Glutamatergic Biomarkers for Cocaine Addiction: A Longitudinal Study Using MR Spectroscopy and mGluR5 PET in Self-Administering Rats. <i>Journal of Nuclear Medicine</i> , 2018, 59, 952-959.	5.0	18
47	Multipotent Adult Progenitor Cells Support Lymphatic Regeneration at Multiple Anatomical Levels during Wound Healing and Lymphedema. <i>Scientific Reports</i> , 2018, 8, 3852.	3.3	25
48	Tri-modal In vivo Imaging of Pancreatic Islets Transplanted Subcutaneously in Mice. <i>Molecular Imaging and Biology</i> , 2018, 20, 940-951.	2.6	13
49	A Magnetic Chameleon: Biocompatible Lanthanide Fluoride Nanoparticles with Magnetic Field Dependent Tunable Contrast Properties as a Versatile Contrast Agent for Low to Ultrahigh Field MRI and Optical Imaging in Biological Window. <i>Chemistry - A European Journal</i> , 2018, 24, 7388-7397.	3.3	23
50	Bronchoscopic fibered confocal fluorescence microscopy for longitudinal in vivo assessment of pulmonary fungal infections in free-breathing mice. <i>Scientific Reports</i> , 2018, 8, 3009.	3.3	18
51	High fat diet treatment impairs hippocampal long-term potentiation without alterations of the core neuropathological features of Alzheimer disease. <i>Neurobiology of Disease</i> , 2018, 113, 82-96.	4.4	34
52	Nanoparticle-induced inflammation can increase tumor malignancy. <i>Acta Biomaterialia</i> , 2018, 68, 99-112.	8.3	24
53	Bioluminescence imaging increases in vivo screening efficiency for antifungal activity against device-associated <i>Candida albicans</i> biofilms. <i>International Journal of Antimicrobial Agents</i> , 2018, 52, 42-51.	2.5	18
54	Altered mGluR5 binding potential and glutamine concentration in the 6-OHDA rat model of acute Parkinson's disease and levodopa-induced dyskinesia. <i>Neurobiology of Aging</i> , 2018, 61, 82-92.	3.1	29

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55	Osteoglycin prevents the development of age-related diastolic dysfunction during pressure overload by reducing cardiac fibrosis and inflammation. <i>Matrix Biology</i> , 2018, 66, 110-124.	3.6	39
56	Clinical Metabolomics and Glaucoma. <i>Ophthalmic Research</i> , 2018, 59, 1-6.	1.9	33
57	Cerebral dopaminergic and glutamatergic transmission relate to different subjective responses of acute alcohol intake: an in vivo multimodal imaging study. <i>Addiction Biology</i> , 2018, 23, 931-944.	2.6	30
58	Non-invasive assessment of disease progression and neuroprotective effects of dietary coconut oil supplementation in the ALS SOD1G93A mouse model: A 1H-magnetic resonance spectroscopic study. <i>NeuroImage: Clinical</i> , 2018, 20, 1092-1105.	2.7	14
59	Self-Maintaining Gut Macrophages Are Essential for Intestinal Homeostasis. <i>Cell</i> , 2018, 175, 400-415.e13.	28.9	371
60	A Multimodal Imaging Approach Enables <i>In Vivo</i> Assessment of Antifungal Treatment in a Mouse Model of Invasive Pulmonary Aspergillosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	23
61	Magnetoliposomes as Contrast Agents for Longitudinal in vivo Assessment of Transplanted Pancreatic Islets in a Diabetic Rat Model. <i>Scientific Reports</i> , 2018, 8, 11487.	3.3	10
62	The human somatostatin receptor type 2 as an imaging and suicide reporter gene for pluripotent stem cell-derived therapy of myocardial infarction. <i>Theranostics</i> , 2018, 8, 2799-2813.	10.0	12
63	Improved Labeling of Pancreatic Islets Using Cationic Magnetoliposomes. <i>Journal of Personalized Medicine</i> , 2018, 8, 12.	2.5	6
64	A Magnetic Chameleon: Biocompatible Lanthanide Fluoride Nanoparticles with Magnetic Field Dependent Tunable Contrast Properties as a Versatile Contrast Agent for Low to Ultrahigh Field MRI and Optical Imaging in Biological Window. <i>Chemistry - A European Journal</i> , 2018, 24, 7277-7277.	3.3	3
65	In vivo evidence for long-term vascular remodeling resulting from chronic cerebral hypoperfusion in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 726-739.	4.3	20
66	Intraarterial route increases the risk of cerebral lesions after mesenchymal cell administration in animal model of ischemia. <i>Scientific Reports</i> , 2017, 7, 40758.	3.3	86
67	Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars. <i>Biomaterials</i> , 2017, 123, 15-23.	11.4	36
68	In Silico Design of Optimal Dissolution Kinetics of Fe-Doped ZnO Nanoparticles Results in Cancer-Specific Toxicity in a Preclinical Rodent Model. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601379.	7.6	29
69	Personalized medicine and follow-up of therapeutic delivery through exploitation of quantum dot toxicity. <i>Biomaterials</i> , 2017, 127, 1-12.	11.4	47
70	The role of intracellular trafficking of CdSe/ZnS QDs on their consequent toxicity profile. <i>Journal of Nanobiotechnology</i> , 2017, 15, 45.	9.1	31
71	Standard Cellular Testing Conditions Generate an Exaggerated Nanoparticle Cytotoxicity Profile. <i>Chemical Research in Toxicology</i> , 2017, 30, 595-603.	3.3	18
72	Characterization of a rat orthotopic pancreatic head tumor model using three-dimensional and quantitative multiparametric MRI. <i>NMR in Biomedicine</i> , 2017, 30, e3676.	2.8	14

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73	An advanced MRI and MRSI data fusion scheme for enhancing unsupervised brain tumor differentiation. <i>Computers in Biology and Medicine</i> , 2017, 81, 121-129.	7.0	20
74	Comparison of different compressed sensing algorithms for low SNR <sup>19</sup> F MRI applicationsâ€”Imaging of transplanted pancreatic islets and cells labeled with perfluorocarbons. <i>NMR in Biomedicine</i> , 2017, 30, e3776.	2.8	26
75	Vascular disrupting agent in pancreatic and hepatic tumour allografts: observations of location-dependent efficacy by MRI, microangiography and histomorphology. <i>British Journal of Cancer</i> , 2017, 117, 1529-1536.	6.4	9
76	Assessing cell-nanoparticle interactions by high content imaging of biocompatible iron oxide nanoparticles as potential contrast agents for magnetic resonance imaging. <i>Scientific Reports</i> , 2017, 7, 7850.	3.3	57
77	Cholesterol-Lowering Gene Therapy Counteracts the Development of Non-ischemic Cardiomyopathy in Mice. <i>Molecular Therapy</i> , 2017, 25, 2513-2525.	8.2	13
78	Pretargeted PET Imaging Using a Bioorthogonal <sup>18</sup> F-Labeled <i>trans</i> -Cyclooctene in an Ovarian Carcinoma Model. <i>Bioconjugate Chemistry</i> , 2017, 28, 2915-2920.	3.6	38
79	Semi-automated brain tumor segmentation on multi-parametric MRI using regularized non-negative matrix factorization. <i>BMC Medical Imaging</i> , 2017, 17, 29.	2.7	34
80	Nuclear Magnetic Resonance Spectroscopy-Based Identification of Yeast. <i>Methods in Molecular Biology</i> , 2017, 1508, 289-304.	0.9	4
81	Presence of an Immune System Increases Antiâ€”Tumor Effect of Ag Nanoparticle Treated Mice. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601099.	7.6	22
82	The Development of Multimodal Nanoparticles for an Early Detection of Tumors. , 2017, , .		0
83	No Effect of Dietary Aspartame or Stevia on Pancreatic Acinar Carcinoma Development, Growth, or Induced Mortality in a Murine Model. <i>Frontiers in Oncology</i> , 2017, 7, 18.	2.8	7
84	No Functional Role for microRNA-342 in a Mouse Model of Pancreatic Acinar Carcinoma. <i>Frontiers in Oncology</i> , 2017, 7, 101.	2.8	7
85	Murine Pancreatic Acinar Cell Carcinoma Growth Kinetics Are Independent of Dietary Vitamin D Deficiency or Supplementation. <i>Frontiers in Oncology</i> , 2017, 7, 133.	2.8	1
86	Visualization, Quantification and Characterization of Caerulein-Induced Acute Pancreatitis in Rats by 3.0T Clinical MRI, Biochemistry and Histomorphology. <i>Theranostics</i> , 2017, 7, 285-294.	10.0	11
87	The successive projection algorithm as an initialization method for brain tumor segmentation using non-negative matrix factorization. <i>PLoS ONE</i> , 2017, 12, e0180268.	2.5	11
88	miR-29a-deficiency does not modify the course of murine pancreatic acinar carcinoma. <i>Oncotarget</i> , 2017, 8, 26911-26917.	1.8	9
89	Micro-HCCs in rats with liver cirrhosis: paradoxical targeting effects with vascular disrupting agent CA4P. <i>Oncotarget</i> , 2017, 8, 55204-55215.	1.8	7
90	NOD mice, susceptible to pancreatic autoimmunity, demonstrate delayed growth of pancreatic cancer. <i>Oncotarget</i> , 2017, 8, 80167-80174.	1.8	2

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91	Development of nanostars as a biocompatible tumor contrast agent: toward in vivo SERS imaging. International Journal of Nanomedicine, 2016, Volume 11, 3703-3714.	6.7	30
92	Monitoring the Bystander Killing Effect of Human Multipotent Stem Cells for Treatment of Malignant Brain Tumors. Stem Cells International, 2016, 2016, 1-14.	2.5	10
93	Persistent Impact of In utero Irradiation on Mouse Brain Structure and Function Characterized by MR Imaging and Behavioral Analysis. Frontiers in Behavioral Neuroscience, 2016, 10, 83.	2.0	26
94	A Semi-Automated Segmentation Framework for MRI Based Brain Tumor Segmentation Using Regularized Nonnegative Matrix Factorization. , 2016, , .		5
95	Transplacental sildenafil rescues lung abnormalities in the rabbit model of diaphragmatic hernia. Thorax, 2016, 71, 517-525.	5.6	52
96	Image-based in vivo assessment of targeting accuracy of stereotactic brain surgery in experimental rodent models. Scientific Reports, 2016, 6, 38058.	3.3	18
97	Easy and Efficient Cell Tagging with Block Copolymer-Based Contrast Agents for Sensitive MRI Detection in Vivo. Cell Transplantation, 2016, 25, 1787-1800.	2.5	8
98	Longitudinal, in vivo assessment of invasive pulmonary aspergillosis in mice by computed tomography and magnetic resonance imaging. Laboratory Investigation, 2016, 96, 692-704.	3.7	28
99	Cytosolic Delivery of Nanolabels Prevents Their Asymmetric Inheritance and Enables Extended Quantitative in Vivo Cell Imaging. Nano Letters, 2016, 16, 5975-5986.	9.1	49
100	In vivo and ex vivo <sup>19</sup> F-fluorine magnetic resonance imaging and spectroscopy of beta cells and pancreatic islets using GLUT2 specific contrast agents. Contrast Media and Molecular Imaging, 2016, 11, 506-513.	0.8	7
101	Evaluation of quantum dot cytotoxicity: interpretation of nanoparticle concentrations versus intracellular nanoparticle numbers. Nanotoxicology, 2016, 10, 1318-1328.	3.0	33
102	A multifunctional contrast dye for morphological research. Microscopy Research and Technique, 2016, 79, 111-121.	2.2	1
103	Positive Association Between Limbic Metabotropic Glutamate Receptor 5 Availability and Novelty-Seeking Temperament in Humans: An <sup>18</sup> F-FPEB PET Study. Journal of Nuclear Medicine, 2016, 57, 1746-1752.	5.0	20
104	Body distribution of SiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> -core-shell nanoparticles after intravenous injection and intratracheal instillation. Nanotoxicology, 2016, 10, 567-574.	3.0	17
105	Visualization of delayed release of compounds from pH-sensitive capsules in vitro and in vivo in a hamster model. Contrast Media and Molecular Imaging, 2016, 11, 24-31.	0.8	3
106	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. Cell Metabolism, 2016, 23, 280-291.	16.2	77
107	Classifying Glioblastoma Multiforme Follow-Up Progressive vs. Responsive Forms Using Multi-Parametric MRI Features. Frontiers in Neuroscience, 2016, 10, 615.	2.8	22
108	Validation of an Improved Patient-Specific Mold Design for Registration of In-vivo MRI and Histology of the Prostate. Lecture Notes in Computer Science, 2016, , 36-43.	1.3	6



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109	High content analysis at single cell level identifies different cellular responses dependent on nanomaterial concentrations. <i>Scientific Reports</i> , 2015, 5, 13890.	3.3	27
110	&lt;em&gt;Candida albicans&lt;/em&gt; Biofilm Development on Medically-relevant Foreign Bodies in a Mouse Subcutaneous Model Followed by Bioluminescence Imaging. <i>Journal of Visualized Experiments</i> , 2015, , 52239.	0.3	24
111	A multidisciplinary approach unravels early and persistent effects of X-ray exposure at the onset of prenatal neurogenesis. <i>Journal of Neurodevelopmental Disorders</i> , 2015, 7, 3.	3.1	44
112	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1599-1624.	2.8	29
113	Tumour Relapse Prediction Using Multiparametric MR Data Recorded during Follow-Up of GBM Patients. <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	6
114	Longitudinal assessment of infarct progression, brain metabolism and behavior following anterior cerebral artery occlusion in rats. <i>Journal of Neuroscience Methods</i> , 2015, 253, 279-291.	2.5	9
115	Longitudinal micro-CT provides biomarkers of lung disease and therapy in preclinical models, thereby revealing compensatory changes in lung volume. <i>DMM Disease Models and Mechanisms</i> , 2015, 9, 91-8.	2.4	83
116	Enhanced $\beta$ -adrenergic cardiac reserve in <i>Trpm4</i> <sup>+/+</sup> mice with ischaemic heart failure. <i>Cardiovascular Research</i> , 2015, 105, 330-339.	3.8	36
117	Longitudinal follow-up and characterization of a robust rat model for Parkinson's disease based on overexpression of alpha-synuclein with adeno-associated viral vectors. <i>Neurobiology of Aging</i> , 2015, 36, 1543-1558.	3.1	75
118	Transcriptional upregulation of myelin components in spontaneous myelin basic protein-deficient mice. <i>Brain Research</i> , 2015, 1606, 125-132.	2.2	3
119	PET imaging of TSPO in a rat model of local neuroinflammation induced by intracerebral injection of lipopolysaccharide. <i>Nuclear Medicine and Biology</i> , 2015, 42, 753-761.	0.6	48
120	Longitudinal in vivo microcomputed tomography of mouse lungs: No evidence for radiotoxicity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L271-L279.	2.9	34
121	Assessment of bystander killing-mediated therapy of malignant brain tumors using a multimodal imaging approach. <i>Stem Cell Research and Therapy</i> , 2015, 6, 163.	5.5	14
122	High-Resolution <sup>1</sup> H NMR Spectroscopy Discriminates Amniotic Fluid of Fetuses with Congenital Diaphragmatic Hernia from Healthy Controls. <i>Journal of Proteome Research</i> , 2015, 14, 4502-4510.	3.7	12
123	High-Content Imaging and Gene Expression Approaches To Unravel the Effect of Surface Functionality on Cellular Interactions of Silver Nanoparticles. <i>ACS Nano</i> , 2015, 9, 10431-10444.	14.6	70
124	63: Transplacental sildenafil rescues vascular and airway morphometry in the rabbit model of congenital diaphragmatic hernia. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 212, S44-S45.	1.3	2
125	Mammalian models of chemically induced primary malignancies exploitable for imaging-based preclinical theragnostic research. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 708-29.	2.0	67
126	Longitudinal micro-CT of preclinical models of lung disease provides biomarkers of disease and therapy that reveal compensatory changes in lung volume. , 2015, , .		0



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127	A Role for LHC1 in Higher Order Structure and Complement Binding of the <i>Cryptococcus neoformans</i> Capsule. <i>PLoS Pathogens</i> , 2014, 10, e1004037.	4.7	28
128	Early decrease of type 1 cannabinoid receptor binding and phosphodiesterase 10A activity in vivo in R6/2 Huntington mice. <i>Neurobiology of Aging</i> , 2014, 35, 2858-2869.	3.1	32
129	Magnetic Resonance Imaging for Noninvasive Assessment of Lung Fibrosis Onset and Progression. <i>Investigative Radiology</i> , 2014, 49, 691-698.	6.2	45
130	Magnetic layer-by-layer coated particles for efficient MRI of dendritic cells and mesenchymal stem cells. <i>Nanomedicine</i> , 2014, 9, 1363-1376.	3.3	12
131	Towards noninvasive monitoring of pathogen-host interactions during <i>Candida albicans</i> biofilm formation using in vivo bioluminescence. <i>Cellular Microbiology</i> , 2014, 16, 115-130.	2.1	50
132	Sensitive in vivo cell detection using size-optimized superparamagnetic nanoparticles. <i>Biomaterials</i> , 2014, 35, 1627-1635.	11.4	37
133	A pictorial essay on fetal rabbit anatomy using micro-ultrasound and magnetic resonance imaging. <i>Prenatal Diagnosis</i> , 2014, 34, 84-89.	2.3	4
134	FMRP regulates multipolar to bipolar transition affecting neuronal migration and cortical circuitry. <i>Nature Neuroscience</i> , 2014, 17, 1693-1700.	14.8	117
135	Controlling and Monitoring Stem Cell Safety In Vivo in an Experimental Rodent Model. <i>Stem Cells</i> , 2014, 32, 2833-2844.	3.2	14
136	High-content imaging and gene expression analysis to study cell-nanomaterial interactions: The effect of surface hydrophobicity. <i>Biomaterials</i> , 2014, 35, 9941-9950.	11.4	66
137	In vivo and ex vivo assessment of the blood brain barrier integrity in different glioblastoma animal models. <i>Journal of Neuro-Oncology</i> , 2014, 119, 297-306.	2.9	53
138	Synthetic Antiferromagnetic Nanoparticles as Potential Contrast Agents in MRI. <i>ACS Nano</i> , 2014, 8, 2269-2278.	14.6	33
139	Cytotoxicity of Cadmium-Free Quantum Dots and Their Use in Cell Bioimaging. <i>Chemical Research in Toxicology</i> , 2014, 27, 1050-1059.	3.3	77
140	Integrating diffusion kurtosis imaging, dynamic susceptibility-weighted contrast-enhanced MRI, and short echo time chemical shift imaging for grading gliomas. <i>Neuro-Oncology</i> , 2014, 16, 1010-1021.	1.2	64
141	Bioluminescence imaging of stroke-induced endogenous neural stem cell response. <i>Neurobiology of Disease</i> , 2014, 69, 144-155.	4.4	27
142	The performance of gradient alloy quantum dots in cell labeling. <i>Biomaterials</i> , 2014, 35, 7249-7258.	11.4	22
143	In vivo hepatocyte MR imaging using lactose functionalized magnetoliposomes. <i>Biomaterials</i> , 2014, 35, 1015-1024.	11.4	32
144	Bioluminescence Imaging of Fungal Biofilm Development in Live Animals. <i>Methods in Molecular Biology</i> , 2014, 1098, 153-167.	0.9	24

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145	Unsupervised Nosologic Imaging for Glioma Diagnosis. IEEE Transactions on Biomedical Engineering, 2013, 60, 1760-1763.	4.2	20
146	2-D Strain Assessment in the Mouse Through Spatial Compounding of Myocardial Velocity Data: In Vivo Feasibility. Ultrasound in Medicine and Biology, 2013, 39, 1848-1860.	1.5	2
147	Diabetes mellitus and the metabolic syndrome do not abolish, but might reduce, the cardioprotective effect of ischemic postconditioning. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 1595-1602.	0.8	34
148	Design and evaluation of theranostic perfluorocarbon particles for simultaneous antigen-loading and 19F-MRI tracking of dendritic cells. Journal of Controlled Release, 2013, 169, 141-149.	9.9	28
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