Uwe Himmelreich

List of Publications by Year
in descending order

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	A comparison of random forest and its Gini importance with standard chemometric methods for the feature selection and classification of spectral data. BMC Bioinformatics, 2009, 10, 213.	2.6	804
2	HRG Inhibits Tumor Growth and Metastasis by Inducing Macrophage Polarization and Vessel Normalization through Downregulation of PlGF. Cancer Cell, 2011, 19, 31-44.	16.8	628
3	Self-Maintaining Gut Macrophages Are Essential for Intestinal Homeostasis. Cell, 2018, 175, 400-415.e13.	28.9	371
4	Gliomas: Diffusion Kurtosis MR Imaging in Grading. Radiology, 2012, 263, 492-501.	7.3	311
5	Cytotoxic effects of iron oxide nanoparticles and implications for safety in cellÂlabelling. Biomaterials, 2011, 32, 195-205.	11.4	285
6	Intracellular Nanoparticle Coating Stability Determines Nanoparticle Diagnostics Efficacy and Cell Functionality. Small, 2010, 6, 2136-2145.	10.0	169
7	Cas1p is a membrane protein necessary for the O-acetylation of the Cryptococcus neoformans capsular polysaccharide. Molecular Microbiology, 2001, 42, 453-467.	2.5	150
8	Bystander Killing of Malignant Glioma by Bone Marrowâ€"derived Tumor-Infiltrating Progenitor Cells Expressing a Suicide Gene. Molecular Therapy, 2007, 15, 1373-1381.	8.2	149
9	Characterization and Regulation of the Trehalose Synthesis Pathway and Its Importance in the Pathogenicity of Cryptococcus neoformans. Infection and Immunity, 2006, 74, 5877-5887.	2.2	144
10	FMRP regulates multipolar to bipolar transition affecting neuronal migration and cortical circuitry. Nature Neuroscience, 2014, 17, 1693-1700.	14.8	117
11	Cell labeling and tracking for experimental models using Magnetic Resonance Imaging. Methods, 2009, 48, 112-124.	3.8	101
12	Isolation and characterization of capsule structure mutant strains of Cryptococcus neoformans. Molecular Microbiology, 2002, 45, 837-849.	2.5	99
13	Quantification of Lung Fibrosis and Emphysema in Mice Using Automated Micro-Computed Tomography. PLoS ONE, 2012, 7, e43123.	2.5	96
14	The Trehalose Synthesis Pathway Is an Integral Part of the Virulence Composite for <i>Cryptococcus gattii</i>. Infection and Immunity, 2009, 77, 4584-4596.	2.2	88
15	Intraarterial route increases the risk of cerebral lesions after mesenchymal cell administration in animal model of ischemia. Scientific Reports, 2017, 7, 40758.	3.3	86
16	Longitudinal micro-CT provides biomarkers of lung disease and therapy in preclinical models, thereby revealing compensatory changes in lung volume. DMM Disease Models and Mechanisms, 2015, 9, 91-8.	2.4	83
17	Cell tracking using magnetic resonance imaging. Journal of Physiology, 2007, 584, 25-30.	2.9	80
18	Cytotoxicity of Cadmium-Free Quantum Dots and Their Use in Cell Bioimaging. Chemical Research in Toxicology, 2014, 27, 1050-1059.	3.3	77

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19	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
20	Effects of MRI Contrast Agents on the Stem Cell Phenotype. Cell Transplantation, 2010, 19, 919-936.	2.5	76
21	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. Neurobiology of Aging, 2015, 36, 1543-1558.	3.1	75
22	MR perfusion and diffusion imaging in the follow-up of recurrent glioblastoma treated with dendritic cell immunotherapy: a pilot study. Neuroradiology, 2011, 53, 721-731.	2.2	72
23	Rapid Identification of Candida Species by Using Nuclear Magnetic Resonance Spectroscopy and a Statistical Classification Strategy. Applied and Environmental Microbiology, 2003, 69, 4566-4574.	3.1	70
24	High-Content Imaging and Gene Expression Approaches To Unravel the Effect of Surface Functionality on Cellular Interactions of Silver Nanoparticles. ACS Nano, 2015, 9, 10431-10444.	14.6	70
25	Myocardial ischemia-reperfusion injury and the influence of inflammation. Trends in Cardiovascular Medicine, 2023, 33, 357-366.	4.9	70
26	Mammalian models of chemically induced primary malignancies exploitable for imaging-based preclinical theragnostic research. Quantitative Imaging in Medicine and Surgery, 2015, 5, 708-29.	2.0	67
27	High-content imaging and gene expression analysis to study cell–nanomaterial interactions: The effect of surface hydrophobicity. Biomaterials, 2014, 35, 9941-9950.	11.4	66
28	Magnetoliposomes as magnetic resonance imaging contrast agents. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 197-211.	6.1	64
29	Integrating diffusion kurtosis imaging, dynamic susceptibility-weighted contrast-enhanced MRI, and short echo time chemical shift imaging for grading gliomas. Neuro-Oncology, 2014, 16, 1010-1021.	1.2	64
30	Evaluation of the specificity and sensitivity of ferritin as an MRI reporter gene in the mouse brain using lentiviral and adeno-associated viral vectors. Gene Therapy, 2011, 18, 594-605.	4.5	63
31	A review on various targeted anticancer therapies. Targeted Oncology, 2012, 7, 69-85.	3.6	62
32	Quantitative evaluation of MRI-based tracking of ferritin-labeled endogenous neural stem cell progeny in rodent brain. NeuroImage, 2012, 62, 367-380.	4.2	59
33	Development of Superparamagnetic Nanoparticles Coated with Polyacrylic Acid and Aluminum Hydroxide as an Efficient Contrast Agent for Multimodal Imaging. Nanomaterials, 2019, 9, 1626.	4.1	59
34	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
35	Pathology of hepatocellular carcinoma and its precursors using proton magnetic resonance spectroscopy and a statistical classification strategy. Pathology, 2002, 34, 417-422.	0.6	58
36	Assessing cell-nanoparticle interactions by high content imaging of biocompatible iron oxide nanoparticles as potential contrast agents for magnetic resonance imaging. Scientific Reports, 2017, 7, 7850.	3.3	57

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37	Cryptococcomas Distinguished from Gliomas with MR Spectroscopy: An Experimental Rat and Cell Culture Study. Radiology, 2001, 220, 122-128.	7.3	55
38	Identification of metabolites of importance in the pathogenesis of pulmonary cryptococcoma using nuclear magnetic resonance spectroscopy. Microbes and Infection, 2003, 5, 285-290.	1.9	54
39	In vivo and ex vivo assessment of the blood brain barrier integrity in different glioblastoma animal models. Journal of Neuro-Oncology, 2014, 119, 297-306.	2.9	53
40	Transplacental sildenafil rescues lung abnormalities in the rabbit model of diaphragmatic hernia. Thorax, 2016, 71, 517-525.	5.6	52
41	Towards nonâ€invasive monitoring of pathogenâ€"host interactions during <i> <scp>C</scp> andida albicans </i> biofilm formation using <i>in vivo</i> bioluminescence. Cellular Microbiology, 2014, 16, 115-130.	2.1	50
42	Multimodal Imaging of Neural Progenitor Cell Fate in Rodents. Molecular Imaging, 2008, 7, 7290.2008.0010.	1.4	49
43	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
44	PET imaging of TSPO in a rat model of local neuroinflammation induced by intracerebral injection of lipopolysaccharide. Nuclear Medicine and Biology, 2015, 42, 753-761.	0.6	48
45	Personalized medicine and follow-up of therapeutic delivery through exploitation of quantum dot toxicity. Biomaterials, 2017, 127, 1-12.	11.4	47
46	Site-specific 68Ga-labeled Annexin A5 as a PET imaging agent for apoptosis. Nuclear Medicine and Biology, 2011, 38, 381-392.	0.6	46
47	Magnetic Resonance Imaging for Noninvasive Assessment of Lung Fibrosis Onset and Progression. Investigative Radiology, 2014, 49, 691-698.	6.2	45
48	Stem cell labeling for magnetic resonance imaging. Minimally Invasive Therapy and Allied Technologies, 2008, 17, 132-142.	1.2	44
49	Exploring Theranostic Potentials of Radioiodinated Hypericin in Rodent Necrosis Models. Theranostics, 2012, 2, 1010-1019.	10.0	44
50	Evaluation of manganese uptake and toxicity in mouse brain during continuous MnCl$_2$ administration using osmotic pumps. Contrast Media and Molecular Imaging, 2012, 7, 426-434.	0.8	44
51	A multidisciplinary approach unravels early and persistent effects of X-ray exposure at the onset of prenatal neurogenesis. Journal of Neurodevelopmental Disorders, 2015, 7, 3.	3.1	44
52	Cinnabarone, a biflavonoid from dragon's blood of Dracaena cinnabari. Phytochemistry, 1995, 38, 751-753.	2.9	42
53	Unique Gene Expression and MR T2 Relaxometry Patterns Define Chronic Murine Dextran Sodium Sulphate Colitis as a Model for Connective Tissue Changes in Human Crohnâ€™s Disease. PLoS ONE, 2013, 8, e68876.	2.5	42
54	Synthetic and biogenic magnetite nanoparticles for tracking of stem cells and dendritic cells. Journal of Magnetism and Magnetic Materials, 2009, 321, 1533-1538.	2.3	41

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55	Mapping of oxygen by imaging lipids relaxation enhancement: A potential sensitive endogenous MRI contrast to map variations in tissue oxygenation. Magnetic Resonance in Medicine, 2013, 70, 732-744.	3.0	41
56	Identification of Enterococcus, Streptococcus , and Staphylococcus by Multivariate Analysis of Proton Magnetic Resonance Spectroscopic Data from Plate Cultures. Journal of Clinical Microbiology, 2001, 39, 2916-2923.	3.9	39
57	Molecular and cellular MR imaging: Potentials and challenges for neurological applications. Journal of Magnetic Resonance Imaging, 2008, 27, 941-954.	3.4	39
58	Osteoglycin prevents the development of age-related diastolic dysfunction during pressure overload by reducing cardiac fibrosis and inflammation. Matrix Biology, 2018, 66, 110-124.	3.6	39
59	Characterization of a preclinical PET insert in a 7 tesla MRI scanner: beyond NEMA testing. Physics in Medicine and Biology, 2020, 65, 245016.	3.0	39
60	Magnetic Resonance Imaging of Human Dental Pulp Stem Cells in Vitro and in Vivo. Cell Transplantation, 2013, 22, 1813-1829.	2.5	38
61	Pretargeted PET Imaging Using a Bioorthogonal ^{18}F-Labeled *trans*-Cyclooctene in an Ovarian Carcinoma Model. Bioconjugate Chemistry, 2017, 28, 2915-2920.	3.6	38
62	Normal Brain Cells Contribute to the Bystander Effect in Suicide Gene Therapy of Malignant Glioma. Clinical Cancer Research, 2007, 13, 6761-6768.	7.0	37
63	Sensitive inÂvivo cell detection using size-optimized superparamagnetic nanoparticles. Biomaterials, 2014, 35, 1627-1635.	11.4	37
64	Hierarchical nonâ€negative matrix factorization (hNMF): a tissue pattern differentiation method for glioblastoma multiforme diagnosis using MRSI. NMR in Biomedicine, 2013, 26, 307-319.	2.8	36
65	Enhanced Î²-adrenergic cardiac reserve in Trpm4âˆ'/âˆ' mice with ischaemic heart failure. Cardiovascular Research, 2015, 105, 330-339.	3.8	36
66	Limiting the protein corona: A successful strategy for inÂvivo active targeting of anti-HER2 nanobody-functionalized nanostars. Biomaterials, 2017, 123, 15-23.	11.4	36
67	Improved Stem Cell MR Detectability in Animal Models by Modification of the Inhalation Gas. Molecular Imaging, 2005, 4, 153535002005041.	1.4	35
68	Polyelectrolyte coating of iron oxide nanoparticles for MRI-based cell tracking. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 682-691.	3.3	35
69	Identification ofStaphylococcus aureusBrain Abscesses: Rat and Human Studies with1H MR Spectroscopy. Radiology, 2005, 236, 261-270.	7.3	34
70	Pathogenesis of Pulmonary Cryptococcus gattii Infection: A Rat Model. Mycopathologia, 2010, 170, 315-330.	3.1	34
71	The labeling of cationic iron oxide nanoparticle-resistant hepatocellular carcinoma cells using targeted magnetoliposomes. Biomaterials, 2011, 32, 1748-1758.	11.4	34
72	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

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73	Longitudinal in vivo microcomputed tomography of mouse lungs: No evidence for radiotoxicity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L271-L279.	2.9	34
74	Semi-automated brain tumor segmentation on multi-parametric MRI using regularized non-negative matrix factorization. BMC Medical Imaging, 2017, 17, 29.	2.7	34
75	High fat diet treatment impairs hippocampal long-term potentiation without alterations of the core neuropathological features of Alzheimer disease. Neurobiology of Disease, 2018, 113, 82-96.	4.4	34
76	Efficient Gene Transfer Into the Mouse Lung by Fetal Intratracheal Injection of rAAV2/6.2. Molecular Therapy, 2010, 18, 2130-2138.	8.2	33
77	Synthetic Antiferromagnetic Nanoparticles as Potential Contrast Agents in MRI. ACS Nano, 2014, 8, 2269-2278.	14.6	33
78	Evaluation of quantum dot cytotoxicity: interpretation of nanoparticle concentrations versus intracellular nanoparticle numbers. Nanotoxicology, 2016, 10, 1318-1328.	3.0	33
79	Clinical Metabolomics and Glaucoma. Ophthalmic Research, 2018, 59, 1-6.	1.9	33
80	Rapid Etiological Classification of Meningitis by NMR Spectroscopy Based on Metabolite Profiles and Host Response. PLoS ONE, 2009, 4, e5328.	2.5	32
81	Early decrease of type 1 cannabinoid receptor binding and phosphodiesterase 10A activity inÂvivo in R6/2 Huntington mice. Neurobiology of Aging, 2014, 35, 2858-2869.	3.1	32
82	InÂvivo hepatocyte MR imaging using lactose functionalized magnetoliposomes. Biomaterials, 2014, 35, 1015-1024.	11.4	32
83	The role of intracellular trafficking of CdSe/ZnS QDs on their consequent toxicity profile. Journal of Nanobiotechnology, 2017, 15, 45.	9.1	31
84	Multimodal imaging of neural progenitor cell fate in rodents. Molecular Imaging, 2008, 7, 77-91.	1.4	31
85	Impact of Clock Gene *Bmal1* Deficiency on Nutritionally Induced Obesity in Mice. Obesity, 2011, 19, 659-661.	3.0	30
86	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
87	Cerebral dopaminergic and glutamatergic transmission relate to different subjective responses of acute alcohol intake: an in vivo multimodal imaging study. Addiction Biology, 2018, 23, 931-944.	2.6	30
88	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. NMR in Biomedicine, 2015, 28, 1599-1624.	2.8	29
89	In Silico Design of Optimal Dissolution Kinetics of Feâ€Doped ZnO Nanoparticles Results in Cancerâ€Specific Toxicity in a Preclinical Rodent Model. Advanced Healthcare Materials, 2017, 6, 1601379.	7.6	29
90	Altered mGluR5 binding potential and glutamine concentration in the 6-OHDA rat model of acute Parkinson's disease and levodopa-induced dyskinesia. Neurobiology of Aging, 2018, 61, 82-92.	3.1	29

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91	<p>Targeting tumor cells and neovascularization using RGD-functionalized magnetoliposomes</p>. International Journal of Nanomedicine, 2019, Volume 14, 5911-5924.	6.7	29
92	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
93	A Role for LHC1 in Higher Order Structure and Complement Binding of the Cryptococcus neoformans Capsule. PLoS Pathogens, 2014, 10, e1004037.	4.7	28
94	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
95	Sensitive bioluminescence imaging of fungal dissemination to the brain in mouse models of cryptococcosis. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	28
96	Simultaneous in vivo PET/MRI using fluorine-18 labeled Fe_3O_4@Al(OH)3 nanoparticles: comparison of nanoparticle and nanoparticle-labeled stem cell distribution. EJNMMI Research, 2020, 10, 73.	2.5	28
97	Damalachawin, a triflavonoid of a new structural type from dragon's blood of Dracaena cinnabari. Phytochemistry, 1995, 39, 949-951.	2.9	27
98	Characterization of the Inflammatory Response in a Photothrombotic Stroke Model by MRI: Implications for Stem Cell Transplantation. Molecular Imaging and Biology, 2011, 13, 663-671.	2.6	27
99	Bioluminescence imaging of stroke-induced endogenous neural stem cell response. Neurobiology of Disease, 2014, 69, 144-155.	4.4	27
100	High content analysis at single cell level identifies different cellular responses dependent on nanomaterial concentrations. Scientific Reports, 2015, 5, 13890.	3.3	27
101	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
102	Comparison of different compressed sensing algorithms for low SNR 19F MRI applicationsâ€"Imaging of transplanted pancreatic islets and cells labeled with perfluorocarbons. NMR in Biomedicine, 2017, 30, e3776.	2.8	26
103	Age-associated adaptations in murine adipose tissues. Endocrine Journal, 2010, 57, 925-930.	1.6	25
104	Small-animal PET imaging of the type 1 and type 2 cannabinoid receptors in a photothrombotic stroke model. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1796-1806.	6.4	25
105	Multipotent Adult Progenitor Cells Support Lymphatic Regeneration at Multiple Anatomical Levels during Wound Healing and Lymphedema. Scientific Reports, 2018, 8, 3852.	3.3	25
106	Switching on the Lights for Gene Therapy. PLoS ONE, 2007, 2, e528.	2.5	24
107	Candida albicans Biofilm Development on Medically-relevant Foreign Bodies in a Mouse Subcutaneous Model Followed by Bioluminescence Imaging. Journal of Visualized Experiments, 2015, , 52239.	0.3	24
108	Nanoparticle-induced inflammation can increase tumor malignancy. Acta Biomaterialia, 2018, 68, 99-112.	8.3	24

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109	Combined enzymatic degradation of proteoglycans and collagen significantly alters intratissue strains in articular cartilage during cyclic compression. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 383-394.	3.1	24
110	Motor cortex metabolite alterations in amyotrophic lateral sclerosis assessed in vivo using edited and non-edited magnetic resonance spectroscopy. Brain Research, 2019, 1718, 22-31.	2.2	24
111	Metabolomic profiling of aqueous humor from glaucoma patients - The metabolomics in surgical ophthalmological patients (MISO) study. Experimental Eye Research, 2020, 201, 108268.	2.6	24
112	Bioluminescence Imaging of Fungal Biofilm Development in Live Animals. Methods in Molecular Biology, 2014, 1098, 153-167.	0.9	24
113	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. Chemistry - A European Journal, 2018, 24, 7388-7397.	3.3	23
114	A Multimodal Imaging Approach Enables <i>In Vivo</i> Assessment of Antifungal Treatment in a Mouse Model of Invasive Pulmonary Aspergillosis. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	23
115	Brassinosteroids, sterols and lup-20(29)-en-2α,3β,28-triol from Rheum Rhabarbarum. Phytochemistry, 1995, 40, 527-531.	2.9	22
116	Pathology of Barrett's esophagus by proton magnetic resonance spectroscopy and a statistical classification strategy. American Journal of Surgery, 2003, 185, 232-238.	1.8	22
117	Antifungal Effects on Metabolite Profiles of Medically Important Yeast Species Measured by Nuclear Magnetic Resonance Spectroscopy. Antimicrobial Agents and Chemotherapy, 2006, 50, 4018-4026.	3.2	22
118	MRI assessment of blood outgrowth endothelial cell homing using cationic magnetoliposomes. Biomaterials, 2011, 32, 4140-4150.	11.4	22
119	The performance of gradient alloy quantum dots in cell labeling. Biomaterials, 2014, 35, 7249-7258.	11.4	22
120	Presence of an Immune System Increases Anti‐Tumor Effect of Ag Nanoparticle Treated Mice. Advanced Healthcare Materials, 2017, 6, 1601099.	7.6	22
121	Classifying Glioblastoma Multiforme Follow-Up Progressive vs. Responsive Forms Using Multi-Parametric MRI Features. Frontiers in Neuroscience, 2016, 10, 615.	2.8	22
122	Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a 1H-MRS study. NeuroImage, 2019, 202, 116050.	4.2	22
123	Monitoring of Fluconazole and Caspofungin Activity against <i>In Vivo</i> Candida glabrata Biofilms by Bioluminescence Imaging. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	22
124	A rapid screening test to distinguish betweenCandida albicansandCandida dubliniensisusing NMR spectroscopy. FEMS Microbiology Letters, 2005, 251, 327-332.	1.8	21
125	Reporter gene approaches for mapping cell fate decisions by MRI: promises and pitfalls. Contrast Media and Molecular Imaging, 2013, 8, 424-431.	0.8	21
126	New Biflavonoids from Dragon's Blood ofDracaena cinnabari. Planta Medica, 1995, 61, 341-344.	1.3	20

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127	Discriminate Liver Warm Ischemic Injury During Hypothermic Machine Perfusion by Proton Magnetic Resonance Spectroscopy: A Study in a Porcine Model. Transplantation Proceedings, 2009, 41, 3383-3386.	0.6	20
128	*In situ* labeling and imaging of endogenous neural stem cell proliferation and migration. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 663-679.	6.1	20
129	Unsupervised Nosologic Imaging for Glioma Diagnosis. IEEE Transactions on Biomedical Engineering, 2013, 60, 1760-1763.	4.2	20
130	Positive Association Between Limbic Metabotropic Glutamate Receptor 5 Availability and Novelty-Seeking Temperament in Humans: An ^{18}F-FPEB PET Study. Journal of Nuclear Medicine, 2016, 57, 1746-1752.	5.0	20
131	In vivo evidence for long-term vascular remodeling resulting from chronic cerebral hypoperfusion in mice. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 726-739.	4.3	20
132	An advanced MRI and MRSI data fusion scheme for enhancing unsupervised brain tumor differentiation. Computers in Biology and Medicine, 2017, 81, 121-129.	7.0	20
133	Early neuropathological and neurobehavioral consequences of preterm birth in a rabbit model. Scientific Reports, 2019, 9, 3506.	3.3	20
134	Synthesis of Fluorinated Ketoheptoses as Specific Diagnostic Agents. European Journal of Organic Chemistry, 2012, 2012, 948-959.	2.4	19
135	Low-Dose Imaging in a New Preclinical Total-Body PET/CT Scanner. Frontiers in Medicine, 2019, 6, 88.	2.6	19
136	Image-based in vivo assessment of targeting accuracy of stereotactic brain surgery in experimental rodent models. Scientific Reports, 2016, 6, 38058.	3.3	18
137	Standard Cellular Testing Conditions Generate an Exaggerated Nanoparticle Cytotoxicity Profile. Chemical Research in Toxicology, 2017, 30, 595-603.	3.3	18
138	Glutamatergic Biomarkers for Cocaine Addiction: A Longitudinal Study Using MR Spectroscopy and mGluR5 PET in Self-Administering Rats. Journal of Nuclear Medicine, 2018, 59, 952-959.	5.0	18
139	Bronchoscopic fibered confocal fluorescence microscopy for longitudinal in vivo assessment of pulmonary fungal infections in free-breathing mice. Scientific Reports, 2018, 8, 3009.	3.3	18
140	Bioluminescence imaging increases in vivo screening efficiency for antifungal activity against device-associated Candida albicans biofilms. International Journal of Antimicrobial Agents, 2018, 52, 42-51.	2.5	18
141	Cerebral Nocardiosis Characterized by Magnetic Resonance Spectroscopy In Vivo. Clinical Infectious Diseases, 2002, 34, 849-852.	5.8	17
142	In vivo imaging of inhibitory, GABAergic neurons by MRI. NeuroImage, 2012, 62, 1685-1693.	4.2	17
143	Multimodal assessment of early tumor response to chemotherapy: comparison between diffusion-weighted MRI, [1]H-MR spectroscopy of choline and USPIO particles targeted at cell death. NMR in Biomedicine, 2012, 25, 514-522.	2.8	17
144	Does rosiglitazone affect adiposity and cardiac function in genetic diabetic mice?. European Journal of Pharmacology, 2013, 700, 23-31.	3.5	17

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145	Body distribution of SiO_2–Fe_3O_4 core-shell nanoparticles after intravenous injection and intratracheal instillation. Nanotoxicology, 2016, 10, 567-574.	3.0	17
146	Effects of alcohol exposure on the glutamatergic system: a combined longitudinal [18]F‑FPEB and [1]H‑MRS study in rats. Addiction Biology, 2019, 24, 696-706.	2.6	17
147	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
148	19F-heptuloses as tools for the non-invasive imaging of GLUT2-expressing cells. Archives of Biochemistry and Biophysics, 2012, 517, 138-143.	3.0	16
149	Variability in contrast agent uptake by different but similar stem cell types. International Journal of Nanomedicine, 2013, 8, 4577.	6.7	16
150	Improved stem cell MR detectability in animal models by modification of the inhalation gas. Molecular Imaging, 2005, 4, 104-9.	1.4	16
151	Stereochemistry of cycloadducts from 3,4-dihydro-6,7-dimethoxyisoquinoline ylide and olefins. Journal of Heterocyclic Chemistry, 1991, 28, 867-873.	2.6	14
152	Reproducibility of rapid short echo time CSI at 3 tesla for clinical applications. Journal of Magnetic Resonance Imaging, 2013, 37, 445-456.	3.4	14
153	Controlling and Monitoring Stem Cell Safety In Vivo in an Experimental Rodent Model. Stem Cells, 2014, 32, 2833-2844.	3.2	14
154	Assessment of bystander killing-mediated therapy of malignant brain tumors using a multimodal imaging approach. Stem Cell Research and Therapy, 2015, 6, 163.	5.5	14
155	Characterization of a rat orthotopic pancreatic head tumor model using three‑dimensional and quantitative multi‑parametric MRI. NMR in Biomedicine, 2017, 30, e3676.	2.8	14
156	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. NeuroImage: Clinical, 2018, 20, 1092-1105.	2.7	14
157	Diagnosis of cerebral cryptococcoma using a computerized analysis of 1H NMR spectra in an animal model. Diagnostic Microbiology and Infectious Disease, 2005, 52, 101-105.	1.8	13
158	Cholesterol-Lowering Gene Therapy Counteracts the Development of Non-ischemic Cardiomyopathy in Mice. Molecular Therapy, 2017, 25, 2513-2525.	8.2	13
159	Tri-modal In vivo Imaging of Pancreatic Islets Transplanted Subcutaneously in Mice. Molecular Imaging and Biology, 2018, 20, 940-951.	2.6	13
160	Magnetic layer-by-layer coated particles for efficient MRI of dendritic cells and mesenchymal stem cells. Nanomedicine, 2014, 9, 1363-1376.	3.3	12
161	High-Resolution ^{1}H NMR Spectroscopy Discriminates Amniotic Fluid of Fetuses with Congenital Diaphragmatic Hernia from Healthy Controls. Journal of Proteome Research, 2015, 14, 4502-4510.	3.7	12
162	The human somatostatin receptor type 2 as an imaging and suicide reporter gene for pluripotent stem cell-derived therapy of myocardial infarction. Theranostics, 2018, 8, 2799-2813.	10.0	12

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163	CT-2A neurospheres-derived high-grade glioma in mice: a new model to address tumor stem cells and immunosuppression. Biology Open, 2019, 8, .	1.2	12
164	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
165	Visualization, Quantification and Characterization of Caerulein-Induced Acute Pancreatitis in Rats by 3.0T Clinical MRI, Biochemistry and Histomorphology. Theranostics, 2017, 7, 285-294.	10.0	11
166	Longitudinal assessment of cerebral perfusion and vascular response to hypoventilation in a bigenic mouse model of Alzheimer's disease with amyloid and tau pathology. NMR in Biomedicine, 2019, 32, e4037.	2.8	11
167	Trehalose as quantitative biomarker for in vivo diagnosis and treatment follow-up in cryptococcomas. Translational Research, 2021, 230, 111-122.	5.0	11
168	Non-Invasive Evaluation of Cerebral Microvasculature Using Pre-Clinical MRI: Principles, Advantages and Limitations. Diagnostics, 2021, 11, 926.	2.6	11
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