Annemie Van der Linden

List of Publications by Year
in descending order

252	9,464	36203	62479
papers	citations	51 h-index	80 g-index

276	276	276	12143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a ligand for in vivo imaging of mutant huntingtin in Huntingtonâ€™s disease. Science Translational Medicine, 2022, 14, eabm3682.	5.8	18
2	Striatal Injury Induces Overall Brain Alteration at the Pallial, Thalamic, and Cerebellar Levels. Biology, 2022, 11, 425.	1.3	1
3	Resting Brain Fluctuations Are Intrinsically Coupled to Visual Response Dynamics. Cerebral Cortex, 2021, 31, 1511-1522.	1.6	13
4	DNA Methylation Regulates Transcription Factor-Specific Neurodevelopmental but Not Sexually Dimorphic Gene Expression Dynamics in Zebra Finch Telencephalon. Frontiers in Cell and Developmental Biology, 2021, 9, 583555.	1.8	8
5	Long-term ovarian hormone deprivation alters functional connectivity, brain neurochemical profile and white matter integrity in the Tg2576 amyloid mouse model of Alzheimer's disease. Neurobiology of Aging, 2021, 102, 139-150.	1.5	7
6	Uncovering a â€˜sensitive windowâ€™ of multisensory and motor neuroplasticity in the cerebrum and cerebellum of male and female starlings. ELife, 2021, 10, .	2.8	5
7	TSPO PET upregulation predicts epileptic phenotype at disease onset independently from chronic TSPO expression in a rat model of temporal lobe epilepsy. NeuroImage: Clinical, 2021, 31, 102701.	1.4	9
8	Monitoring Neuronal Network Disturbances of Brain Diseases: A Preclinical MRI Approach in the Rodent Brain. Frontiers in Cellular Neuroscience, 2021, 15, 815552.	1.8	4
9	Common functional networks in the mouse brain revealed by multi-centre resting-state fMRI analysis. NeuroImage, 2020, 205, 116278.	2.1	151
10	Longitudinal evaluation of demyelinated lesions in a multiple sclerosis model using ultrashort echo time magnetization transfer (UTE-MT) imaging. NeuroImage, 2020, 208, 116415.	2.1	12
11	In vivo online monitoring of testosterone-induced neuroplasticity in a female songbird. Hormones and Behavior, 2020, 118, 104639.	1.0	14
12	Progressive tau aggregation does not alter functional brain network connectivity in seeded hTau.P301L mice. Neurobiology of Disease, 2020, 143, 105011.	2.1	9
13	Longâ€term deprivation of ovarian hormones via ovariectomy alters functional connectivity, brain neurochemistry and white matter integrity in a mouse model of Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e037354.	0.4	1
14	Chemogenetic silencing of neurons in the mouse anterior cingulate area modulates neuronal activity and functional connectivity. NeuroImage, 2020, 220, 117088.	2.1	32
15	Molecular correlates of hypothalamic development in songbird ontogeny in comparison with the telencephalon. FASEB Journal, 2020, 34, 4997-5015.	0.2	0
16	Resting-State Co-activation Patterns as Promising Candidates for Prediction of Alzheimerâ€™s Disease in Aged Mice. Frontiers in Neural Circuits, 2020, 14, 612529.	1.4	13
17	In vivo assessment of the neural substrate linked with vocal imitation accuracy. ELife, 2020, 9, .	2.8	8
18	Neuroimaging of Subacute Brain Inflammation and Microstructural Changes Predicts Long-Term Functional Outcome after Experimental Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 768-788.	1.7	32

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19	Clinical and immunological control of experimental autoimmune encephalomyelitis by tolerogenic dendritic cells loaded with MOG-encoding mRNA. Journal of Neuroinflammation, 2019, 16, 167.	3.1	20
20	The autism- and schizophrenia-associated protein CYFIP1 regulates bilateral brain connectivity and behaviour. Nature Communications, 2019, 10, 3454.	5.8	65
21	Molecular Imaging of Immune Cell Dynamics During De- and Remyelination in the Cuprizone Model of Multiple Sclerosis by [¹⁸F]DPA-714 PET and MRI. Theranostics, 2019, 9, 1523-1537.	4.6	26
22	Bottom-up sensory processing can induce negative BOLD responses and reduce functional connectivity in nodes of the default mode-like network in rats. NeuroImage, 2019, 197, 167-176.	2.1	9
23	Hypersynchronicity in the default mode-like network in a neurodevelopmental animal model with relevance for schizophrenia. Behavioural Brain Research, 2019, 364, 303-316.	1.2	11
24	In vivo measurement of brain network connectivity reflects progression and intrinsic disease severity in a model of temporal lobe epilepsy. Neurobiology of Disease, 2019, 127, 45-52.	2.1	19
25	Increased soluble amyloid-beta causes early aberrant brain network hypersynchronisation in a mature-onset mouse model of amyloidosis. Acta Neuropathologica Communications, 2019, 7, 180.	2.4	19
26	Normalized averaged range (nAR), a robust quantification method for MPIO-content. Journal of Magnetic Resonance, 2019, 300, 18-27.	1.2	0
27	In Vivo Preclinical Molecular Imaging of Repeated Exposure to an N-methyl-d-aspartate Antagonist and a Glutaminase Inhibitor as Potential Glutamatergic Modulators. Journal of Pharmacology and Experimental Therapeutics, 2019, 368, 382-390.	1.3	7
28	Acquisition of Spatial Search Strategies and Reversal Learning in the Morris Water Maze Depend on Disparate Brain Functional Connectivity in Mice. Cerebral Cortex, 2019, 29, 4519-4529.	1.6	16
29	Early functional connectivity deficits and progressive microstructural alterations in the TgF344-AD rat model of Alzheimerâ€™s Disease: A longitudinal MRI study. Neurobiology of Disease, 2019, 124, 93-107.	2.1	46
30	Image-guided phenotyping of ovariectomized mice: altered functional connectivity, cognition, myelination, and dopaminergic functionality. Neurobiology of Aging, 2019, 74, 77-89.	1.5	14
31	Subtle behavioral changes and increased prefrontal-hippocampal network synchronicity in APPNLâ^'Gâ^'F mice before prominent plaque deposition. Behavioural Brain Research, 2019, 364, 431-441.	1.2	63
32	Accelerated redevelopment of vocal skills is preceded by lasting reorganization of the song motor circuitry. ELife, 2019, 8, .	2.8	15
33	fMRI Reveals a Novel Region for Evaluating Acoustic Information for Mate Choice in a Female Songbird. Current Biology, 2018, 28, 711-721.e6.	1.8	33
34	Spatial reversal learning defect coincides with hypersynchronous telencephalic BOLD functional connectivity in APPNL-F/NL-F knock-in mice. Scientific Reports, 2018, 8, 6264.	1.6	41
35	Dynamic resting state fMRI analysis in mice reveals a set of Quasi-Periodic Patterns and illustrates their relationship with the global signal. NeuroImage, 2018, 180, 463-484.	2.1	64
36	Diffusion kurtosis imaging allows the early detection and longitudinal follow-up of amyloid-Î²-induced pathology. Alzheimer's Research and Therapy, 2018, 10, 1.	3.0	120

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37	MRI. Handbook of Behavioral Neuroscience, 2018, 28, 457-479.	0.7	0
38	MR-based spatial normalization improves [18F]MNI-659 PET regional quantification and detectability of disease effect in the Q175 mouse model of Huntingtonâ€™s disease. PLoS ONE, 2018, 13, e0206613.	1.1	17
39	Early postnatal behavioral, cellular, and molecular changes in models of Huntington disease are reversible by HDAC inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8765-E8774.	3.3	47
40	Quasi-Periodic Patterns of Neural Activity improve Classification of Alzheimerâ€™s Disease in Mice. Scientific Reports, 2018, 8, 10024.	1.6	35
41	Rapid changes in auditory processing in songbirds following acute aromatase inhibition as assessed by fMRI. Hormones and Behavior, 2018, 104, 63-76.	1.0	5
42	Timing of perineuronal net development in the zebra finch song control system correlates with developmental song learning. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180849.	1.2	24
43	Noninvasive Relative Quantification of [11C]ABP688 PET Imaging in Mice Versus an Input Function Measured Over an Arteriovenous Shunt. Frontiers in Neurology, 2018, 9, 516.	1.1	26
44	Targeted intracerebral delivery of the anti-inflammatory cytokine IL13 promotes alternative activation of both microglia and macrophages after stroke. Journal of Neuroinflammation, 2018, 15, 174.	3.1	57
45	Neuroplasticity in the cerebello-thalamo-basal ganglia pathway: AÂlongitudinal in vivo MRI study in male songbirds. NeuroImage, 2018, 181, 190-202.	2.1	12
46	A three-dimensional digital neurological atlas of the mustached bat (Pteronotus parnellii). NeuroImage, 2018, 183, 300-313.	2.1	8
47	Volumetric development of the zebra finch brain throughout the first 200 days of post-hatch life traced by in vivo MRI. NeuroImage, 2018, 183, 227-238.	2.1	4
48	Non-invasive PET imaging of brain inflammation at disease onset predicts spontaneous recurrent seizures and reflects comorbidities. Brain, Behavior, and Immunity, 2017, 61, 69-79.	2.0	30
49	Perineuronal nets and vocal plasticity in songbirds: A proposed mechanism to explain the difference between closedâ€ended and openâ€ended learning. Developmental Neurobiology, 2017, 77, 975-994.	1.5	30
50	Topography and Lateralized Effect of Acute Aromatase Inhibition on Auditory Processing in a Seasonal Songbird. Journal of Neuroscience, 2017, 37, 4243-4254.	1.7	27
51	Auditory evoked BOLD responses in awake compared to lightly anaesthetized zebra finches. Scientific Reports, 2017, 7, 13563.	1.6	7
52	Hyperpolarized ¹³ C MR metabolic imaging can detect neuroinflammation in vivo in a multiple sclerosis murine model. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6982-E6991.	3.3	71
53	Exploring sex differences in the adult zebra finch brain: In vivo diffusion tensor imaging and ex vivo super-resolution track density imaging. NeuroImage, 2017, 146, 789-803.	2.1	18
54	Song Processing in the Zebra Finch Auditory Forebrain Reflects Asymmetric Sensitivity to Temporal and Spectral Structure. Frontiers in Neuroscience, 2017, 11, 549.	1.4	18

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55	A genome-wide search for epigenetically regulated genes in zebra finch using MethylCap-seq and RNA-seq. Scientific Reports, 2016, 6, 20957.	1.6	9
56	Monitoring Blood-Brain Barrier Integrity Following Amyloid-Î² Immunotherapy Using Gadolinium-Enhanced MRI in a PDAPP Mouse Model. Journal of Alzheimer's Disease, 2016, 54, 723-735.	1.2	17
57	Intracerebral transplantation of interleukin 13-producing mesenchymal stem cells limits microgliosis, oligodendrocyte loss and demyelination in the cuprizone mouse model. Journal of Neuroinflammation, 2016, 13, 288.	3.1	34
58	More from less: high-throughput dual polarity lipid imaging of biological tissues. Analyst, The, 2016, 141, 3832-3841.	1.7	38
59	Early pathologic amyloid induces hypersynchrony of BOLD restingâ€state networks in transgenic mice and provides an early therapeutic window before amyloid plaque deposition. Alzheimer's and Dementia, 2016, 12, 964-976.	0.4	76
60	Magnetization transfer contrast imaging detects early white matter changes in the APP/PS1 amyloidosis mouse model. NeuroImage: Clinical, 2016, 12, 85-92.	1.4	5
61	Interleukin-13 immune gene therapy prevents CNS inflammation and demyelination via alternative activation of microglia and macrophages. Glia, 2016, 64, 2181-2200.	2.5	53
62	Early Changes in Hippocampal Neurogenesis in Transgenic Mouse Models for Alzheimerâ€™s Disease. Molecular Neurobiology, 2016, 53, 5796-5806.	1.9	71
63	In Vivo Interleukin-13-Primed Macrophages Contribute to Reduced Alloantigen-Specific T Cell Activation and Prolong Immunological Survival of Allogeneic Mesenchymal Stem Cell Implants. Stem Cells, 2016, 34, 1971-1984.	1.4	17
64	Quinolinic acid injection in mouse medial prefrontal cortex affects reversal learning abilities, cortical connectivity and hippocampal synaptic plasticity. Scientific Reports, 2016, 6, 36489.	1.6	53
65	Diffusion kurtosis imaging probes cortical alterations and white matter pathology following cuprizone induced demyelination and spontaneous remyelination. NeuroImage, 2016, 125, 363-377.	2.1	122
66	Resting-state functional MRI and [18F]-FDG PET demonstrate differences in neuronal activity between commonly used mouse strains. NeuroImage, 2016, 125, 571-577.	2.1	24
67	Neuroplasticity and MRI: A perfect match. NeuroImage, 2016, 131, 13-28.	2.1	35
68	Cholinergic and serotonergic modulations differentially affect large-scale functional networks in the mouse brain. Brain Structure and Function, 2016, 221, 3067-3079.	1.2	31
69	A three-dimensional digital atlas of the starling brain. Brain Structure and Function, 2016, 221, 1899-1909.	1.2	22
70	Early Inflammatory Responses following Cell Grafting in the CNS Trigger Activation of the Subventricular Zone: A Proposed Model of Sequential Cellular Events. Cell Transplantation, 2015, 24, 1481-1492.	1.2	19
71	Network structure of functional hippocampal lateralization in birds. Hippocampus, 2015, 25, 1418-1428.	0.9	23
72	The power of using functional fMRI on small rodents to study brain pharmacology and disease. Frontiers in Pharmacology, 2015, 6, 231.	1.6	102

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73	Cuprizoneâ€induced demyelination and demyelinationâ€associated inflammation result in different proton magnetic resonance metabolite spectra. NMR in Biomedicine, 2015, 28, 505-513.	1.6	20
74	Acute modulation of the cholinergic system in the mouse brain detected by pharmacological resting-state functional MRI. NeuroImage, 2015, 109, 151-159.	2.1	32
75	Preclinical Comparison of the Amyloid-Î² Radioligands [11C]Pittsburgh compound B and [18F]florbetaben in Aged APPPS1-21 and BRI1-42 Mouse Models of Cerebral Amyloidosis. Molecular Imaging and Biology, 2015, 17, 688-696.	1.3	8
76	Elastin fragmentation in atherosclerotic mice leads to intraplaque neovascularization, plaque rupture, myocardial infarction, stroke, and sudden death. European Heart Journal, 2015, 36, 1049-1058.	1.0	139
77	Longitudinal monitoring of metabolic alterations in cuprizone mouse model of multiple sclerosis using 1H-magnetic resonance spectroscopy. NeuroImage, 2015, 114, 128-135.	2.1	33
78	Brain inflammation in a chronic epilepsy model: Evolving pattern of the translocator protein during epileptogenesis. Neurobiology of Disease, 2015, 82, 526-539.	2.1	69
79	Assessment of bystander killing-mediated therapy of malignant brain tumors using a multimodal imaging approach. Stem Cell Research and Therapy, 2015, 6, 163.	2.4	14
80	<i>In Vivo</i> Longitudinal Monitoring of Changes in the Corpus Callosum Integrity During Disease Progression in a Mouse Model of Alzheimerâ€™s Disease. Current Alzheimer Research, 2015, 12, 941-950.	0.7	16
81	Metabolic Profiling of Dividing Cells in Live Rodent Brain by Proton Magnetic Resonance Spectroscopy (1HMRS) and LCModel Analysis. PLoS ONE, 2014, 9, e94755.	1.1	18
82	Diffusion Kurtosis Imaging and High-Resolution MRI Demonstrate Structural Aberrations of Caudate Putamen and Amygdala after Chronic Mild Stress. PLoS ONE, 2014, 9, e95077.	1.1	59
83	Preserved Modular Network Organization in the Sedated Rat Brain. PLoS ONE, 2014, 9, e106156.	1.1	28
84	A Panel of Trypanosoma brucei Strains Tagged with Blue and Red-Shifted Luciferases for Bioluminescent Imaging in Murine Infection Models. PLoS Neglected Tropical Diseases, 2014, 8, e3054.	1.3	17
85	Proof of concept: enthesitis and new bone formation in spondyloarthritis are driven by mechanical strain and stromal cells. Annals of the Rheumatic Diseases, 2014, 73, 437-445.	0.5	334
86	Different anesthesia regimes modulate the functional connectivity outcome in mice. Magnetic Resonance in Medicine, 2014, 72, spcone-spcone.	1.9	2
87	Evaluating the predictive value of doublecortin as a marker for adult neurogenesis in canaries (Serinus canaria). Journal of Comparative Neurology, 2014, 522, 1299-1315.	0.9	32
88	Multimodal imaging of micronâ€sized iron oxide particles following in vitro and in vivo uptake by stem cells: down to the nanometer scale. Contrast Media and Molecular Imaging, 2014, 9, 400-408.	0.4	9
89	Entrapment of a neutral Tm(III)â€based complex with two innerâ€sphere coordinated water molecules into PEGâ€stabilized vesicles: towards an alternative strategy to develop highâ€performance LipoCEST contrast agents for MR imaging. Contrast Media and Molecular Imaging, 2014, 9, 391-399.	0.4	12
90	Magnetization transfer contrast imaging reveals amyloid pathology in Alzheimer's disease transgenic mice. NeuroImage, 2014, 87, 111-119.	2.1	22

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91	Different anesthesia regimes modulate the functional connectivity outcome in mice. Magnetic Resonance in Medicine, 2014, 72, 1103-1112.	1.9	136
92	Cellular and molecular neuropathology of the cuprizone mouse model: Clinical relevance for multiple sclerosis. Neuroscience and Biobehavioral Reviews, 2014, 47, 485-505.	2.9	352
93	Multimodal imaging of subventricular zone neural stem/progenitor cells in the cuprizone mouse model reveals increased neurogenic potential for the olfactory bulb pathway, but no contribution to remyelination of the corpus callosum. NeuroImage, 2014, 86, 99-110.	2.1	33
94	P4-366: MONITORING BLOOD-BRAIN-BARRIER DISRUPTION FOLLOWING ABETA IMMUNOTHERAPY USING GADOLINIUM-ENHANCED MRI IN A PDAPP MOUSE MODEL. , 2014, 10, P922-P923.		0
95	Histological Characterization and Quantification of Cellular Events Following Neural and Fibroblast(-Like) Stem Cell Grafting in Healthy and Demyelinated CNS Tissue. Methods in Molecular Biology, 2014, 1213, 265-283.	0.4	7
96	Subchronic memantine induced concurrent functional disconnectivity and altered ultra-structural tissue integrity in the rodent brain: revealed by multimodal MRI. Psychopharmacology, 2013, 227, 479-491.	1.5	18
97	Quantitative and phenotypic analysis of mesenchymal stromal cell graft survival and recognition by microglia and astrocytes in mouse brain. Immunobiology, 2013, 218, 696-705.	0.8	37
98	Imaging microglial activation and glucose consumption in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2013, 34, 351-354.	1.5	52
99	A 3-dimensional digital atlas of the ascending sensory and the descending motor systems in the pigeon brain. Brain Structure and Function, 2013, 218, 269-281.	1.2	40
100	Functional magnetic resonance imaging in rodents: an unique tool to study in vivo pharmacologic neuromodulation. Current Opinion in Pharmacology, 2013, 13, 813-820.	1.7	8
101	Comparisons of different methods to train a young zebra finch (Taeniopygia guttata) to learn a song. Journal of Physiology (Paris), 2013, 107, 210-218.	2.1	69
102	Current state-of-the-art of auditory functional MRI (fMRI) on zebra finches: Technique and scientific achievements. Journal of Physiology (Paris), 2013, 107, 156-169.	2.1	19
103	Functional MRI and functional connectivity of the visual system of awake pigeons. Behavioural Brain Research, 2013, 239, 43-50.	1.2	33
104	Quantitative Evaluation of Stem Cell Grafting in the Central Nervous System of Mice by In Vivo Bioluminescence Imaging and Postmortem Multicolor Histological Analysis. Methods in Molecular Biology, 2013, 1052, 125-141.	0.4	6
105	Tackling the physiological barriers for successful mesenchymal stem cell transplantation into the central nervous system. Stem Cell Research and Therapy, 2013, 4, 101.	2.4	23
106	Functional Magnetic Resonance Imaging (fMRI) with Auditory Stimulation in Songbirds. Journal of Visualized Experiments, 2013, , .	0.2	3
107	Diffusion kurtosis imaging to detect amyloidosis in an APP/PS1 mouse model for Alzheimer's disease. Magnetic Resonance in Medicine, 2013, 69, 1115-1121.	1.9	46
108	Representation of Early Sensory Experience in the Adult Auditory Midbrain: Implications for Vocal Learning. PLoS ONE, 2013, 8, e61764.	1.1	17

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109	Injury-Dependent Retention of Intraportally Administered Mesenchymal Stromal Cells Following Partial Hepatectomy of Steatotic Liver Does Not Lead to Improved Liver Recovery. PLoS ONE, 2013, 8, e69092.	1.1	8
110	Resting State fMRI Reveals Diminished Functional Connectivity in a Mouse Model of Amyloidosis. PLoS ONE, 2013, 8, e84241.	1.1	57
111	Functional changes between seasons in the male songbird auditory forebrain. Frontiers in Behavioral Neuroscience, 2013, 7, 196.	1.0	29
112	Multimodal Imaging of Stem Cell Implantation in the Central Nervous System of Mice. Journal of Visualized Experiments, 2012, , e3906.	0.2	6
113	Cell Type-Associated Differences in Migration, Survival, and Immunogenicity following Grafting in CNS Tissue. Cell Transplantation, 2012, 21, 1867-1881.	1.2	36
114	Quantitative evaluation of MRI-based tracking of ferritin-labeled endogenous neural stem cell progeny in rodent brain. NeuroImage, 2012, 62, 367-380.	2.1	59
115	A complementary diffusion tensor imaging (DTI)-histological study in a model of Huntington's disease. Neurobiology of Aging, 2012, 33, 945-959.	1.5	29
116	In situ labeling and imaging of endogenous neural stem cell proliferation and migration. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 663-679.	3.3	20
117	Multimodal in vivoimaging reveals limited allograft survival, intrapulmonary cell trapping and minimal evidence for ischemia-directed BMSC homing. BMC Biotechnology, 2012, 12, 93.	1.7	23
118	An adaptive non local maximum likelihood estimation method for denoising magnetic resonance images. , 2012, , .		10
119	Stem cell therapy for multiple sclerosis: preclinical evidence beyond all doubt?. Regenerative Medicine, 2012, 7, 245-259.	0.8	16
120	Microstructural changes observed with DKI in a transgenic Huntington rat model: Evidence for abnormal neurodevelopment. NeuroImage, 2012, 59, 957-967.	2.1	59
121	Identification and characterization of Huntington related pathology: An in vivo DKI imaging study. NeuroImage, 2012, 63, 653-662.	2.1	34
122	Spatiotemporal evolution of early innate immune responses triggered by neural stem cell grafting. Stem Cell Research and Therapy, 2012, 3, 56.	2.4	34
123	A Three-Dimensional Stereotaxic MRI Brain Atlas of the Cichlid Fish Oreochromis mossambicus. PLoS ONE, 2012, 7, e44086.	1.1	41
124	Current Challenges for the Advancement of Neural Stem Cell Biology and Transplantation Research. Stem Cell Reviews and Reports, 2012, 8, 262-278.	5.6	75
125	A novel plaque rupture model in mice. Vascular Pharmacology, 2012, 56, 313.	1.0	0
126	Magnetic Resonance Imaging and Spectroscopy Reveal Differential Hippocampal Changes in Anhedonic and Resilient Subtypes of the Chronic Mild Stress Rat Model. Biological Psychiatry, 2011, 70, 449-457.	0.7	106

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127	A customizable 3-dimensional digital atlas of the canary brain in multiple modalities. NeuroImage, 2011, 57, 352-361.	2.1	26
128	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. NeuroImage, 2011, 58, 975-983.	2.1	33
129	Genotype specific age related changes in a transgenic rat model of Huntington's disease. NeuroImage, 2011, 58, 1006-1016.	2.1	22
130	Phosphorylation, protein kinases and ADPKD. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1219-1224.	1.8	9
131	1H NMR based metabolomics of CSF and blood serum: A metabolic profile for a transgenic rat model of Huntington disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1371-1379.	1.8	73
132	In Vivo Monitoring of Adult Neurogenesis in Health and Disease. Frontiers in Neuroscience, 2011, 5, 67.	1.4	32
133	Own Song Selectivity in the Songbird Auditory Pathway: Suppression by Norepinephrine. PLoS ONE, 2011, 6, e20131.	1.1	22
134	Clinical Potential of Intravenous Neural Stem Cell Delivery for Treatment of Neuroinflammatory Disease in Mice?. Cell Transplantation, 2011, 20, 851-870.	1.2	45
135	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.	2.3	63
136	Labeling of Luciferase/eGFP-Expressing Bone Marrow-Derived Stromal Cells with Fluorescent Micron-Sized Iron Oxide Particles Improves Quantitative and Qualitative Multimodal Imaging of Cellular Grafts In Vivo. Molecular Imaging and Biology, 2011, 13, 1133-1145.	1.3	21
137	Neuroadaptive responses to citalopram in rats using pharmacological magnetic resonance imaging. Psychopharmacology, 2011, 213, 521-531.	1.5	19
138	Neuroanatomical targets of reboxetine and bupropion as revealed by pharmacological magnetic resonance imaging. Psychopharmacology, 2011, 217, 549-557.	1.5	6
139	More accurate estimation of diffusion tensor parameters using diffusion kurtosis imaging. Magnetic Resonance in Medicine, 2011, 65, 138-145.	1.9	202
140	Background migration of USPIO/MLs is a major drawback for in situ labeling of endogenous neural progenitor cells. Contrast Media and Molecular Imaging, 2011, 6, 1-6.	0.4	14
141	Recognition of cellular implants by the brain's innate immune system. Immunology and Cell Biology, 2011, 89, 511-516.	1.0	23
142	Functional Connectivity fMRI of the Rodent Brain: Comparison of Functional Connectivity Networks in Rat and Mouse. PLoS ONE, 2011, 6, e18876.	1.1	197
143	Validation of Dementia Models Employing Neuroimaging Techniques. Neuromethods, 2011, , 187-220.	0.2	1
144	Improved B0 field map estimation for high field EPI. Magnetic Resonance Imaging, 2010, 28, 441-450.	1.0	1

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145	Morphologic and functional changes in the unilateral 6-hydroxydopamine lesion rat model for Parkinsonâ€™s disease discerned withÂÎ¼SPECT and quantitative MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 65-75.	1.1	10
146	Implementation of spinâ€echo blood oxygen levelâ€dependent (BOLD) functional MRI in birds. NMR in Biomedicine, 2010, 23, 1027-1032.	1.6	21
147	Love songs, bird brains and diffusion tensor imaging. NMR in Biomedicine, 2010, 23, 873-883.	1.6	14
148	Areaâ€specific migration and recruitment of new neurons in the adult songbird brain. Journal of Comparative Neurology, 2010, 518, 1442-1459.	0.9	54
149	Diffusion tensor image up-sampling: a registration-based approach. Magnetic Resonance Imaging, 2010, 28, 1497-1506.	1.0	6
150	Neural Correlates of Behavioural Olfactory Sensitivity Changes Seasonally in European Starlings. PLoS ONE, 2010, 5, e14337.	1.1	29
151	Impaired Autonomic Regulation of Resistance Arteries in Mice With Low Vascular Endothelial Growth Factor or Upon Vascular Endothelial Growth Factor Trap Delivery. Circulation, 2010, 122, 273-281.	1.6	37
152	MRI visualization of endogenous neural progenitor cell migration along the RMS in the adult mouse brain: Validation of various MPIO labeling strategies. NeuroImage, 2010, 49, 2094-2103.	2.1	51
153	Non-rigid coregistration of diffusion kurtosis data. , 2010, , .		0
154	A new combined live wire and active surface approach for volume-of-interest segmentation. , 2009, , .		2
155	Structural Changes between Seasons in the Songbird Auditory Forebrain. Journal of Neuroscience, 2009, 29, 13557-13565.	1.7	48
156	Own-Song Recognition in the Songbird Auditory Pathway: Selectivity and Lateralization. Journal of Neuroscience, 2009, 29, 2252-2258.	1.7	77
157	In Vivo Morphological Changes in Animal Models of Amyotrophic Lateral Sclerosis and Alzheimer'sâ€Like Disease: MRI Approach. Anatomical Record, 2009, 292, 1882-1892.	0.8	58
158	Diffusion tensor imaging in a rat model of Parkinson's disease after lesioning of the nigrostriatal tract. NMR in Biomedicine, 2009, 22, 697-706.	1.6	65
159	Reporter gene-expressing bone marrow-derived stromal cells are immune-tolerated following implantation in the central nervous system of syngeneic immunocompetent mice. BMC Biotechnology, 2009, 9, 1.	1.7	78
160	MRI in small brains displaying extensive plasticity. Trends in Neurosciences, 2009, 32, 257-266.	4.2	41
161	Diffusion Tensor Images Upsampling: A Registration-Based Approach. , 2009, , .		1
162	Seasonal rewiring of the songbird brain: an in vivo MRI study. European Journal of Neuroscience, 2008, 28, 2475-2485.	1.2	41

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163	Can longâ€distance migratory birds adjust to the advancement of spring by shortening migration distance? The response of the pied flycatcher to latitudinal photoperiodic variation. Global Change Biology, 2008, 14, 2516-2522.	4.2	16
164	Reduced brain volumes in mice expressing APP-Austrian mutation but not in mice expressing APP-Swedishâ€“Austrian mutations. Neuroscience Letters, 2008, 447, 143-147.	1.0	4
165	Intraneuronal amyloid Î² and reduced brain volume in a novel APP T714I mouse model for Alzheimer's disease. Neurobiology of Aging, 2008, 29, 241-252.	1.5	52
166	A three-dimensional MRI atlas of the zebra finch brain in stereotaxic coordinates. NeuroImage, 2008, 41, 1-6.	2.1	59
167	Susceptibility correction for improved tractography using high field DT-EPI. Proceedings of SPIE, 2008, , .	0.8	2
168	Measuring brain hemodynamic changes in a songbird: responses to hypercapnia measured with functional MRI and near-infrared spectroscopy. Physics in Medicine and Biology, 2008, 53, 2457-2470.	1.6	24
169	Functional Magnetic Resonance Imaging in Zebra Finch Discerns the Neural Substrate Involved in Segregation of Conspecific Song From Background Noise. Journal of Neurophysiology, 2008, 99, 931-938.	0.9	33
170	Functional MRI of Auditory Responses in the Zebra Finch Forebrain Reveals a Hierarchical Organisation Based on Signal Strength but Not Selectivity. PLoS ONE, 2008, 3, e3184.	1.1	26
171	Current status of functional MRI on small animals: application to physiology, pathophysiology, and cognition. NMR in Biomedicine, 2007, 20, 522-545.	1.6	93
172	Neural representation of spectral and temporal features of song in the auditory forebrain of zebra finches as revealed by functional MRI. European Journal of Neuroscience, 2007, 26, 2613-2626.	1.2	46
173	Contribution of CYLN2 and GTF2IRD1 to neurological and cognitive symptoms in Williams Syndrome. Neurobiology of Disease, 2007, 26, 112-124.	2.1	67
174	Overexpression of human wildtype torsinA and human Î”GAG torsinA in a transgenic mouse model causes phenotypic abnormalities. Neurobiology of Disease, 2007, 27, 190-206.	2.1	123
175	In vivo diffusion tensor imaging (DTI) of brain subdivisions and vocal pathways in songbirds. NeuroImage, 2006, 29, 754-763.	2.1	39
176	In vivo MR imaging of the seasonal volumetric and functional plasticity of song control nuclei in relation to song output in a female songbird. NeuroImage, 2006, 31, 981-992.	2.1	39
177	Robust estimation of the noise variance from background MR data. , 2006, , .		2
178	Light Stimulus Frequency Dependence of Activity in the Rat Visual System as Studied With High-Resolution BOLD fMRI. Journal of Neurophysiology, 2006, 95, 3164-3170.	0.9	60
179	IR-SE and IR-MEMRI allowin vivo visualization of oscine neuroarchitecture including the main forebrain regions of the song control system. NMR in Biomedicine, 2006, 19, 18-29.	1.6	15
180	Changing body temperature affects theT2* signal in the rat brain and reveals hypothalamic activity. Magnetic Resonance in Medicine, 2006, 55, 1006-1012.	1.9	33

#	Article	IF	Citations
181	Activation of a sensorimotor pathway in response to a water temperature drop in a teleost fish. Journal of Experimental Biology, 2006, 209, 2015-2024.	0.8	13
182	Construction and evaluation of multitracer small-animal PET probabilistic atlases for voxel-based functional mapping of the rat brain. Journal of Nuclear Medicine, 2006, 47, 1858-66.	2.8	101
183	Brain Responses to Ambient Temperature Fluctuations in Fish: Reduction of Blood Volume and Initiation of a Whole-Body Stress Response. Journal of Neurophysiology, 2005, 93, 2849-2855.	0.9	52
184	Dynamic manganese-enhanced MRI signal intensity processing based on nonlinear mixed modeling to study changes in neuronal activity. Journal of Agricultural, Biological, and Environmental Statistics, 2005, 10, 170-183.	0.7	3
185	A comparison between blood oxygenation level-dependent and cerebral blood volume contrast in the rat cerebral and cerebellar somatosensoric cortex during electrical paw stimulation. Journal of Magnetic Resonance Imaging, 2005, 22, 483-491.	1.9	18
186	Noninvasive in vivo MRI detection of neuritic plaques associated with iron in APP[V717I] transgenic mice, a model for Alzheimer's disease. Magnetic Resonance in Medicine, 2005, 53, 607-613.	1.9	139
187	Mathematical framework for simulating diffusion tensor MR neural fiber bundles. Magnetic Resonance in Medicine, 2005, 53, 944-953.	1.9	77
188	First results of a quantitative study of DNA adducts of melphalan in the rat by isotope dilution mass spectrometry using capillary liquid chromatography coupled to electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 1999-2004.	0.7	10
189	Spatiotemporal properties of the BOLD response in the songbirds' auditory circuit during a variety of listening tasks. NeuroImage, 2005, 25, 1242-1255.	2.1	65
190	Ammonia affects brain nitrogen metabolism but not hydration status in the Gulf toadfish (Opsanus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	32
191	The strengths of in vivo magnetic resonance imaging (MRI) to study environmental adaptational physiology in fish. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 236-248.	1.1	28
192	Applications of manganese-enhanced magnetic resonance imaging (MEMRI) to image brain plasticity in song birds. NMR in Biomedicine, 2004, 17, 602-612.	1.6	100
193	Qualitative study ofin vivo melphalan adduct formation in the rat by miniaturized column-switching liquid chromatography coupled with electrospray mass spectrometry. Journal of Mass Spectrometry, 2004, 39, 29-37.	0.7	13
194	Differential effects of testosterone on neuronal populations and their connections in a sensorimotor brain nucleus controlling song production in songbirds: a manganese enhanced-magnetic resonance imaging study. NeuroImage, 2004, 21, 914-923.	2.1	54
195	In vivo dynamic ME-MRI reveals differential functional responses of RA- and area X-projecting neurons in the HVC of canaries exposed to conspecific song. European Journal of Neuroscience, 2003, 18, 3352-3360.	1.2	45
196	Simultaneous electroencephalographic recording and functional magnetic resonance imaging during pentylenetetrazol-induced seizures in rat. NeuroImage, 2003, 19, 627-636.	2.1	50
197	In vivo manganese-enhanced magnetic resonance imaging reveals connections and functional properties of the songbird vocal control system. Neuroscience, 2002, 112, 467-474.	1.1	135
198	Neonatal neuronal overexpression of glycogen synthase kinase-3Î² reduces brain size in transgenic mice. Neuroscience, 2002, 113, 797-808.	1.1	102

#	Article	IF	Citations
199	In-vivo non-invasive study of the thermoregulatory function of the blood vessels in the rat tail using magnetic resonance angiography. NMR in Biomedicine, 2002, 15, 263-269.	1.6	35
200	A data post-processing protocol for dynamic MRI data to discriminate brain activity from global physiological effects. Magnetic Resonance Imaging, 2002, 20, 503-510.	1.0	17
201	Targeted mutation of Cyln2 in the Williams syndrome critical region links CLIP-115 haploinsufficiency to neurodevelopmental abnormalities in mice. Nature Genetics, 2002, 32, 116-127.	9.4	163
202	Assessment of the neovascular permeability in glioma xenografts by dynamicT1MRI with Gadomer-17. Magnetic Resonance in Medicine, 2002, 47, 305-313.	1.9	34
203	Does Anoxia Induce Cell Swelling in Carp Brains? In Vivo MRI Measurements in Crucian Carp and Common Carp. Journal of Neurophysiology, 2001, 85, 125-133.	0.9	30
204	Comparing BOLD fMRI signal changes in the awake and anesthetized rat during electrical forepaw stimulation. Magnetic Resonance Imaging, 2001, 19, 821-826.	1.0	138
205	Brain studies of mouse models for neurogenetic disorders using in vivo magnetic resonance imaging (MRI). European Journal of Human Genetics, 2001, 9, 153-159.	1.4	24
206	<title>Automatic detection of EEG electrode markers on 3D MR data</title>. , 2000, , .		0
207	<title>Quantitative characterization of the progression of focal brain ischemia in a rat photochemical stroke model using in-vivo MRI</title>. , 2000, 3978, 476.		0
208	<title>Automatic EEG signal restoration during simultaneous EEG/MR acquisitions</title>. , 2000, , .		0
209	<title>In-vivo study of the thermoregulation of the rat tail using magnetic resonance angiography (MRA)</title>. , 2000, 3978, 466.		0
210	<title>Changes during pentetrazol-induced epilepsy in rat recorded by simultaneous EEG/MRI at 7T</title>. , 2000, 3978, 485.		0
211	Automatic localization of EEG electrode markers within 3D MR data. Magnetic Resonance Imaging, 2000, 18, 485-488.	1.0	19
212	Special designed RF-antenna with integrated non-invasive carbon electrodes for simultaneous magnetic resonance imaging and electroencephalography acquisition at 7T. Magnetic Resonance Imaging, 2000, 18, 887-891.	1.0	25
213	Reduction of ECG and gradient related artifacts in simultaneously recorded human EEG/MRI data. Magnetic Resonance Imaging, 2000, 18, 881-886.	1.0	70
214	The Energy Metabolism of Common Carp (Cyprinus carpio) When Exposed to Salt Stress: An Increase in Energy Expenditure or Effects of Starvation?. Physiological and Biochemical Zoology, 2000, 73, 102-111.	0.6	99
215	Diffusion-weighted MRI of infarct growth in a rat photochemical stroke model: effect of lubeluzole. Neuropharmacology, 2000, 39, 691-702.	2.0	27
216	Salt stress and resistance to hypoxic challenges in the common carp (Cyprinus carpio L.). , 2000, 57, 761.		2

#	Article	IF	Citations
217	<title>Functional magnetic resonance imaging of the rat cerebellum during electrical stimulation of the fore- and hindpaw at 7 T</title>. , 1999, 3660, 408.		0
218	Adaptive anisotropic noise filtering for magnitude MR data. Magnetic Resonance Imaging, 1999, 17, 1533-1539.	1.0	56
219	Restoration of MR-induced artifacts in simultaneously recorded MR/EEG data. Magnetic Resonance Imaging, 1999, 17, 1383-1391.	1.0	71
220	A patchy horizontal organization of the somatosensory activation of the rat cerebellum demonstrated by functional MRI. European Journal of Neuroscience, 1999, 11, 2720-2730.	1.2	27
221	Neuroanatomy of the fragile X knockout mouse brain studied using in vivo high resolution magnetic resonance imaging. European Journal of Human Genetics, 1999, 7, 526-532.	1.4	61
222	Osmoregulation of the common carp (Cyprinus carpio) when exposed to an osmotic challenge assessed in-vivo and non-invasively by diffusion- and T2-weighted magnetic resonance imaging. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1999, 124, 343-352.	0.8	15
223	<title>Quantification of tumor microvascular permeability in human glioma xenografts using dynamic T1 MRI with Gadomer-17</title>. , 1999, , .		2
224	<title>Adaptive anisotropic noise filtering for magnitude MR data</title>. , 1999, 3661, 1418.		1
225	Recovery of the energy metabolism after a hypoxic challenge at different temperature conditions: a 31P-nuclear magnetic resonance spectroscopy study with common carp. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1998, 120, 143-150.	0.8	14
226	Imaging birds in a bird cage: in-vivo FSE 3D MRI of bird brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 22-27.	1.1	2
227	Non invasive in vivo anatomical studies of the oscine brain by high resolution MRI microscopy. Journal of Neuroscience Methods, 1998, 81, 45-52.	1.3	32
228	L1 knockout mice show dilated ventricles, vermis hypoplasia and impaired exploration patterns. Human Molecular Genetics, 1998, 7, 999-1009.	1.4	228
229	<title>MRI as a tool to study brain structure from mouse models for mental retardation</title>. , 1998, , .		1
230	Water household of the common carp,Cyprinus carpio, when submitted to an osmotic challenge, as determined by diffusion-weighted magnetic resonance imaging at 7 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 13-19.	1.1	11
231	High resolution magnetic resonance imaging application in anatomy: the extensor digitorum muscle insertion on the first phalanx. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 21-27.	1.1	1
232	Watershed-based segmentation of 3D MR data for volume quantization. Magnetic Resonance Imaging, 1997, 15, 679-688.	1.0	133
233	Effects of sublethal copper exposure on muscle energy metabolism of common carp, measured by ³¹Pâ€nuclear magnetic resonance spectroscopy. Environmental Toxicology and Chemistry, 1997, 16, 676-684.	2.2	23
234	EFFECTS OF SUBLETHAL COPPER EXPOSURE ON MUSCLE ENERGY METABOLISM OF COMMON CARP, MEASURED BY 31P-NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. Environmental Toxicology and Chemistry, 1997, 16, 676.	2.2	2

#	Article	IF	Citations
235	<title>Volume quantization of the mouse cerebellum by semiautomatic 3D segmentation of magnetic resonance images</title>. , 1996, , .		1
236	In vivo noninvasive determination of abnormal water diffusion in the rat brain studied in an animal model for multiple sclerosis by diffusion-weighted NMR imaging. Magnetic Resonance Imaging, 1996, 14, 521-532.	1.0	36
237	Complementary use of T2-weighted and postcontrast T1- and T2â^—-weighted imaging to distinguish sites of reversible and irreversible brain damage in focal ischemic lesions in the rat brain. Magnetic Resonance Imaging, 1995, 13, 185-192.	1.0	15
238	In vitro NMR micro imaging of the spinal cord of chronic relapsing EAE rats. Magnetic Resonance Imaging, 1994, 12, 469-475.	1.0	13
239	Complementary use of T2- and postcontrast T1-weighted NMR images for the sequential monitoring of focal ischemic lesions in the rat brain. Magnetic Resonance Imaging, 1993, 11, 675-683.	1.0	11
240	Noninvasive in vivo 13C-NMR spectroscopy of a 13C-labeled xenobiotic in the rat. Magnetic Resonance Imaging, 1992, 10, 975-981.	1.0	3
241	Proton relaxation enhancement by means of serum albumin and poly-l-lysine labeled with DTPA-Gd3+: Relaxivities as a function of molecular weight and conjugation efficiency. Magnetic Resonance Imaging, 1992, 10, 913-917.	1.0	64
242	Involvement of cyclic nucleotides in light-induced resumption of development ofArtemia embryos. The Journal of Experimental Zoology, 1991, 258, 312-321.	1.4	6
243	High resolution NMR imaging: Gd-DTPA labeled enzyme as a probe for permeability studies in polyacrylamide gels. Magnetic Resonance Imaging, 1991, 9, 583-587.	1.0	1
244	Light-induced release ofArtemia dried embryos from diapause: Analysis of metabolic status. The Journal of Experimental Zoology, 1988, 247, 131-138.	1.4	17
245	Effect of pH on the biological availability of copper to the brine shrimp Artemia franciscana. Marine Biology, 1988, 98, 31-38.	0.7	9
246	Evaluation of microwave heating digestion and graphite furnace atomic absorption spectrometry with continuum source background correction for the determination of iron, copper and cadmium in brine shrimp. Journal of Analytical Atomic Spectrometry, 1988, 3, 387.	1.6	125
247	Action spectroscopy of light-induced hatching ofArtemia cysts (Branchiopoda: Crustacea). Marine Biology, 1986, 91, 239-243.	0.7	19
248	The influence of light on the hatching of Artemia cysts (Anostraca:Branchiopoda:Crustacea). Journal of Experimental Marine Biology and Ecology, 1985, 92, 207-214.	0.7	24
249	Brain Imaging. , 0, , 233-256.		0
250	Investigation of the brainâ€™s functional connectivity in a rat model of spatial neglect-like deficits.. Frontiers in Neuroscience, 0, 12, .	1.4	0
251	In vivo assessment of glymphatic clearance by DCE-MRI as potential prognostic biomarker of Alzheimer's disease. Frontiers in Neuroscience, 0, 13, .	1.4	0
252	Increased Soluble AÎ² in adult mice causes pathological brain network hypersynchronisation early after induction. Frontiers in Neuroscience, 0, 13, .	1.4	0