Louise van der Weerd

List of Publications by Year
in descending order

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119	4,434	94433	123424
papers	citations	37 h-index	61 g-index

129	129	129	6998
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of an Arsenal. Molecular and Cellular Proteomics, 2008, 7, 215-246.	3.8	298
2	Pretreatment with Interferon-Î³ Enhances the Therapeutic Activity of Mesenchymal Stromal Cells in Animal Models of Colitis. Stem Cells, 2011, 29, 1549-1558.	3.2	287
3	Cognitive deficits in Tsc1^{+/â^'}mice in the absence of cerebral lesions and seizures. Annals of Neurology, 2007, 62, 648-655.	5.3	233
4	Superâ€resolution methods in MRI: Can they improve the tradeâ€off between resolution, signalâ€toâ€noise ratio, and acquisition time?. Magnetic Resonance in Medicine, 2012, 68, 1983-1993.	3.0	187
5	Imaging beta amyloid aggregation and iron accumulation in Alzheimer's disease using quantitative susceptibility mapping MRI. NeuroImage, 2019, 191, 176-185.	4.2	122
6	A central role for venom in predation by Varanus komodoensis (Komodo Dragon) and the extinct giant Varanus (Megalania) priscus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8969-8974.	7.1	120
7	Cortical Iron Reflects Severity ofÂAlzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2017, 60, 1533-1545.	2.6	119
8	Enhanced glutathione PEGylated liposomal brain delivery of an anti-amyloid single domain antibody fragment in a mouse model for Alzheimer's disease. Journal of Controlled Release, 2015, 203, 40-50.	9.9	114
9	The Chronic Vascular and Haemodynamic Response after Permanent Bilateral Common Carotid Occlusion in Newborn and Adult Rats. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1066-1075.	4.3	108
10	Low dystrophin levels increase survival and improve muscle pathology and function in dystrophin/utrophin doubleâ€knockout mice. FASEB Journal, 2013, 27, 2484-2495.	0.5	94
11	Postmortem MRI and histology demonstrate differential iron accumulation and cortical myelin organization in early- and late-onset Alzheimer's disease. Neurobiology of Aging, 2018, 62, 231-242.	3.1	93
12	Evolution and diversification of the Toxicofera reptile venom system. Journal of Proteomics, 2009, 72, 127-136.	2.4	91
13	Iron loading is a prominent feature of activated microglia in Alzheimerâ€™s disease patients. Acta Neuropathologica Communications, 2021, 9, 27.	5.2	79
14	Orientation of the Phylloquinone Electron Acceptor Anion Radical in Photosystem I. Biochemistry, 1997, 36, 9297-9303.	2.5	78
15	Mouse Models to Study the Effect of Cardiovascular Risk Factors on Brain Structure and Cognition. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1666-1684.	4.3	78
16	Quantitative NMR microscopy of osmotic stress responses in maize and pearl millet. Journal of Experimental Botany, 2001, 52, 2333-2343.	4.8	76
17	Functional and Structural Diversification of the Anguimorpha Lizard Venom System. Molecular and Cellular Proteomics, 2010, 9, 2369-2390.	3.8	70
18	Nuclear magnetic resonanceimaging of membrane permeability changes in plants during osmoticstress. Plant, Cell and Environment, 2002, 25, 1539-1549.	5.7	64

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19	Neuroprotective Effects of Virally Delivered HSPs in Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 371-381.	4.3	60
20	Scattered Deletion of PKD1 in Kidneys Causes a Cystic Snowball Effect and Recapitulates Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2015, 26, 1322-1333.	6.1	60
21	Scavenger Receptor-Aâ€“Targeted Iron Oxide Nanoparticles for In Vivo MRI Detection of Atherosclerotic Lesions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1812-1819.	2.4	59
22	Potential role of antimicrobial peptides in the early onset of Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 51-57.	0.8	58
23	Neuroprotective effects of HSP70 overexpression after cerebral ischaemiaâ€”An MRI study. Experimental Neurology, 2005, 195, 257-266.	4.1	56
24	Squeezers and Leaf-cutters: Differential Diversification and Degeneration of the Venom System in Toxicoferan Reptiles. Molecular and Cellular Proteomics, 2013, 12, 1881-1899.	3.8	52
25	Regional Variation of Cerebral Blood Flow and Arterial Transit Time in the Normal and Hypoperfused Rat Brain Measured Using Continuous Arterial Spin Labeling MRI. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 274-282.	4.3	50
26	Cerebral Amyloidosis: Postmortem Detection with Human 7.0-T MR Imaging System. Radiology, 2009, 253, 788-796.	7.3	49
27	MRI artifacts in human brain tissue after prolonged formalin storage. Magnetic Resonance in Medicine, 2011, 65, 1750-1758.	3.0	47
28	Low dystrophin levels in heart can delay heart failure in mdx mice. Journal of Molecular and Cellular Cardiology, 2014, 69, 17-23.	1.9	47
29	Fusion of hIgG1-Fc to 111In-anti-amyloid single domain antibody fragment VHH-pa2H prolongs blood residential time in APP/PS1 mice but does not increase brain uptake. Nuclear Medicine and Biology, 2015, 42, 695-702.	0.6	47
30	Postmortem T2*- Weighted MRI Imaging of Cortical Iron Reflects Severity of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 65, 1125-1137.	2.6	47
31	Modelling of Self-diffusion and Relaxation Time NMR in Multicompartment Systems with Cylindrical Geometry. Journal of Magnetic Resonance, 2002, 156, 213-221.	2.1	46
32	Initial stress in biomechanical models of atherosclerotic plaques. Journal of Biomechanics, 2011, 44, 2376-2382.	2.1	46
33	Cell tracking using iron oxide fails to distinguish dead from living transplanted cells in the infarcted heart. Magnetic Resonance in Medicine, 2010, 63, 817-821.	3.0	45
34	Overexpression of Heat Shock Protein 27 Reduces Cortical Damage after Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 849-856.	4.3	45
35	The coarse-grained plaque: a divergent AÎ² plaque-type in early-onset Alzheimerâ€™s disease. Acta Neuropathologica, 2020, 140, 811-830.	7.7	45
36	Co-expression patterns of microglia markers Iba1, TMEM119 and P2RY12 in Alzheimer's disease. Neurobiology of Disease, 2022, 167, 105684.	4.4	45

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37	Water-conducting properties of lipids during pollen hydration. Plant, Cell and Environment, 2002, 25, 513-519.	5.7	43
38	Changes in GABA_A receptor properties in amygdala kindled animals: In vivo studies using [¹¹C]flumazenil and positron emission tomography. Epilepsia, 2009, 50, 88-98.	5.1	43
39	In vivo biodistribution of stem cells using molecular nuclear medicine imaging. Journal of Cellular Physiology, 2011, 226, 1444-1452.	4.1	41
40	Quantitative comparison of different iron forms in the temporal cortex of Alzheimer patients and control subjects. Scientific Reports, 2018, 8, 6898.	3.3	40
41	Endless forms most beautiful: the evolution of ophidian oral glands, including the venom system, and the use of appropriate terminology for homologous structures. Zoomorphology, 2017, 136, 107-130.	0.8	38
42	Evaluation of algorithms for analysis of NMR relaxation decay curves. Magnetic Resonance Imaging, 2000, 18, 1151-1158.	1.8	37
43	Vascular Hypothesis of Alzheimer Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1265-1283.	2.4	37
44	Highâ€field MRI of single histological slices using an inductively coupled, selfâ€resonant microcoil: application to ex vivo samples of patients with Alzheimer's disease. NMR in Biomedicine, 2011, 24, 351-357.	2.8	36
45	The Evolution of Fangs, Venom, and Mimicry Systems in Blenny Fishes. Current Biology, 2017, 27, 1184-1191.	3.9	36
46	In Vivo Detection of Amyloid-Î² Deposits Using Heavy Chain Antibody Fragments in a Transgenic Mouse Model for Alzheimer's Disease. PLoS ONE, 2012, 7, e38284.	2.5	34
47	A novel approach to quantify different iron forms in ex-vivo human brain tissue. Scientific Reports, 2016, 6, 38916.	3.3	33
48	T₁ relaxation in in vivo mouse brain at ultraâ€high field. Magnetic Resonance in Medicine, 2007, 58, 390-395.	3.0	32
49	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. Magnetic Resonance in Medicine, 2019, 81, 1229-1236.	3.0	31
50	In vivo bioluminescence imaging of vascular remodeling after stroke. Frontiers in Cellular Neuroscience, 2014, 8, 274.	3.7	29
51	Influence of different isoflurane anesthesia protocols on murine cerebral hemodynamics measured with pseudoâ€continuous arterial spin labeling. NMR in Biomedicine, 2019, 32, e4105.	2.8	29
52	Transit time mapping in the mouse brain using timeâ€encoded pCASL. NMR in Biomedicine, 2018, 31, e3855.	2.8	28
53	7T MRI allows detection of disturbed cortical lamination of the medial temporal lobe in patients with Alzheimer's disease. NeuroImage: Clinical, 2019, 21, 101665.	2.7	28
54	Nonâ€invasive tracking of avian development in vivo by MRI. NMR in Biomedicine, 2009, 22, 365-373.	2.8	27

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55	Normal Aging Brain Collection Amsterdam (NABCA): A comprehensive collection of postmortem high-field imaging, neuropathological and morphometric datasets of non-neurological controls. NeuroImage: Clinical, 2019, 22, 101698.	2.7	25
56	Iron accumulation induces oxidative stress, while depressing inflammatory polarization in human iPSC-derived microglia. Stem Cell Reports, 2022, 17, 1351-1365.	4.8	25
57	Cerebral amyloid angiopathy-linked Î²-amyloid mutations promote cerebral fibrin deposits via increased binding affinity for fibrinogen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14482-14492.	7.1	24
58	Effects of Long-Term Endogenous Corticosteroid Exposure on Brain Volume and Glial Cells in the AdKO Mouse. Frontiers in Neuroscience, 2021, 15, 604103.	2.8	24
59	MR image-guided investigation of regional signal transducers and activators of transcription-1 activation in a rat model of focal cerebral ischemia. Neuroscience, 2004, 127, 333-339.	2.3	23
60	Amyloid imaging of dutchâ€type hereditary cerebral amyloid angiopathy carriers. Annals of Neurology, 2019, 86, 616-625.	5.3	22
61	Quantitative MRI and laser ablation-inductively coupled plasma-mass spectrometry imaging of iron in the frontal cortex of healthy controls and Alzheimerâ€™s disease patients. NeuroImage, 2020, 215, 116808.	4.2	21
62	The NOTCH3 score: a pre-clinical CADASIL biomarker in a novel human genomic NOTCH3 transgenic mouse model with early progressive vascular NOTCH3 accumulation. Acta Neuropathologica Communications, 2015, 3, 89.	5.2	20
63	Continuous infusion of manganese improves contrast and reduces side effects in manganese-enhanced magnetic resonance imaging studies. NeuroImage, 2017, 147, 1-9.	4.2	20
64	Assessment of cardiac function in three mouse dystrophinopathies by magnetic resonance imaging. Neuromuscular Disorders, 2012, 22, 418-426.	0.6	19
65	MR Microscopy of Human Amyloid-Î² Deposits: Characterization of Parenchymal Amyloid, Diffuse Plaques, and Vascular Amyloid. Journal of Alzheimer's Disease, 2013, 34, 1037-1049.	2.6	17
66	Effects of Alzheimerâ€™s disease and formalin fixation on the different mineralised-iron forms in the human brain. Scientific Reports, 2020, 10, 16440.	3.3	17
67	Polyfluorinated bis-styrylbenzenes as amyloid-Î² plaque binding ligands. Bioorganic and Medicinal Chemistry, 2014, 22, 2469-2481.	3.0	16
68	Progression and Classification of Granular Osmiophilic Material (GOM) Deposits in Functionally Characterized Human NOTCH3 Transgenic Mice. Translational Stroke Research, 2020, 11, 517-527.	4.2	16
69	Camelid heavy chain only antibody fragment domain against Î²â€site of amyloid precursor protein cleaving enzyme 1 inhibits Î²â€secretase activity inÂvitro and inÂvivo. FEBS Journal, 2015, 282, 3618-3631.	4.7	15
70	TGFÎ² pathway deregulation and abnormal phosphoâ€SMAD2/3 staining in hereditary cerebral hemorrhage with amyloidosisâ€Dutch type. Brain Pathology, 2018, 28, 495-506.	4.1	15
71	Cerebral Amyloid Angiopathy With Vascular Iron Accumulation and Calcification. Stroke, 2018, 49, 2081-2087.	2.0	15
72	Voluntary exercise improves muscle function and does not exacerbate muscle and heart pathology in aged Duchenne muscular dystrophy mice. Journal of Molecular and Cellular Cardiology, 2018, 125, 29-38.	1.9	15

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73	Osteopontin and phosphoâ€SMAD2/3 are associated with calcification of vessels in Dâ€CAA, an hereditary cerebral amyloid angiopathy. Brain Pathology, 2019, 29, 793-802.	4.1	15
74	Human-brain ferritin studied by muon spin rotation: a pilot study. Journal of Physics Condensed Matter, 2017, 29, 415801.	1.8	13
75	Natriuretic Peptides in Post-mortem Brain Tissue and Cerebrospinal Fluid of Non-demented Humans and Alzheimerâ€™s Disease Patients. Frontiers in Neuroscience, 2018, 12, 864.	2.8	13
76	Brain Transcriptomic Analysis of Hereditary Cerebral Hemorrhage With Amyloidosis-Dutch Type. Frontiers in Aging Neuroscience, 2018, 10, 102.	3.4	13
77	MRâ˜Based Molecular Imaging of the Brain: The Next Frontier. American Journal of Neuroradiology, 2010, 31, 1577-1583.	2.4	12
78	CSF enhancement on post-contrast fluid-attenuated inversion recovery images; a systematic review. NeuroImage: Clinical, 2020, 28, 102456.	2.7	12
79	Cerebral blood flow and cerebrovascular reactivity are preserved in a mouse model of cerebral microvascular amyloidosis. ELife, 2021, 10, .	6.0	12
80	MRI of Animal Models of Brain Disease. Methods in Enzymology, 2004, 386, 149-177.	1.0	11
81	Histological validation of iron-oxide and gadolinium based MRI contrast agents in experimental atherosclerosis: The do's and don't's. Atherosclerosis, 2012, 225, 274-280.	0.8	11
82	Influence of full-length dystrophin on brain volumes in mouse models of Duchenne muscular dystrophy. PLoS ONE, 2018, 13, e0194636.	2.5	10
83	Expandable human cardiovascular progenitors from stem cells for regenerating mouse heart after myocardial infarction. Cardiovascular Research, 2020, 116, 545-553.	3.8	10
84	Pathological characterization of T2*-weighted MRI contrast in the striatum of Huntingtonâ€™s disease patients. NeuroImage: Clinical, 2020, 28, 102498.	2.7	9
85	Pre-clinical optical imaging and MRI for drug development in Alzheimer's disease. Drug Discovery Today: Technologies, 2011, 8, e117-e125.	4.0	8
86	Quantification of different iron forms in the aceruloplasminemia brain to explore iron-related neurodegeneration. NeuroImage: Clinical, 2021, 30, 102657.	2.7	8
87	Contrast enhancement by lipidâ€based MRI contrast agents in mouse atherosclerotic plaques; a longitudinal study. Contrast Media and Molecular Imaging, 2013, 8, 63-71.	0.8	7
88	9.4T and 17.6T MRI of Retinoblastoma: Ex Vivo evaluation of microstructural anatomy and disease extent compared with histopathology. Journal of Magnetic Resonance Imaging, 2018, 47, 1487-1497.	3.4	7
89	Histopathological correlates of haemorrhagic lesions on ex vivo magnetic resonance imaging in immunized Alzheimerâ€™s disease cases. Brain Communications, 2022, 4, fcac021.	3.3	7
90	Corpus callosum lesions are associated with worse cognitive performance in cerebral amyloid angiopathy. Brain Communications, 2022, 4, .	3.3	7

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91	Gradual changes in the apparent diffusion coefficient of water in selectively vulnerable brain regions following brief ischemia in the gerbil. Magnetic Resonance in Medicine, 2005, 53, 593-600.	3.0	6
92	The time window of MRI of murine atherosclerotic plaques after administration of CB2 receptor targeted micelles: interâ€scan variability and relation between plaque signal intensity increase and gadolinium content of inversion recovery prepared versus nonâ€prepared fast spin echo. NMR in Biomedicine, 2010, 23, 939-951.	2.8	5
93	Cardiac Dysfunction in Pneumovirus-Induced Lung Injury in Mice. Pediatric Critical Care Medicine, 2013, 14, e243-e249.	0.5	5
94	Bis-pyridylethenyl benzene as novel backbone for amyloid-Î² binding compounds. Bioorganic and Medicinal Chemistry, 2016, 24, 6139-6148.	3.0	5
95	Super-resolution in MRI: better images faster?. Proceedings of SPIE, 2012, , .	0.8	4
96	Self-Gated CINE MRI for Combined Contrast-Enhanced Imaging and Wall-Stiffness Measurements of Murine Aortic Atherosclerotic Lesions. PLoS ONE, 2013, 8, e57299.	2.5	4
97	Offâ€resonance saturation as an MRI method to quantify mineralâ€iron in the postâ€mortem brain. Magnetic Resonance in Medicine, 2021, , .	3.0	4
98	The 3D Moore-Rayleigh Test for the Quantitative Groupwise Comparison of MR Brain Images. Lecture Notes in Computer Science, 2009, 21, 564-575.	1.3	3
99	MRI in Animal Models of Psychiatric Disorders. Methods in Molecular Biology, 2011, 771, 309-335.	0.9	3
100	Interactive Local Super-Resolution Reconstruction of Whole-Body MRI Mouse Data: A Pilot Study with Applications to Bone and Kidney Metastases. PLoS ONE, 2014, 9, e108730.	2.5	3
101	MR imaging for the quantitative assessment of brain iron in aceruloplasminemia: A postmortem validation study. NeuroImage, 2021, 245, 118752.	4.2	3
102	Automated segmentation of the ex vivo mouse brain. , 2007, , .		2
103	Threeâ€dimensional inversion recovery manganeseâ€enhanced MRI of mouse brain using superâ€resolution reconstruction to visualize nuclei involved in higher brain function. NMR in Biomedicine, 2014, 27, 749-759.	2.8	2
104	Quantitative susceptibility mapping in the thalamus and basal ganglia of systemic lupus erythematosus patients with neuropsychiatric complaints. NeuroImage: Clinical, 2021, 30, 102637.	2.7	2
105	Occipital Cortical Calcifications in Cerebral Amyloid Angiopathy. Stroke, 2021, 52, 1851-1855.	2.0	2
106	P4â€001: Overactivation of NMDA receptors in the aged APPsweâ€PS1dE9 brain, a mouse model of Alzheimer's disease. Alzheimer's and Dementia, 2012, 8, P638.	0.8	0
107	Molecular Magnetic Resonance Imaging for the Detection of Vulnerable Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, , .	2.4	0
108	[O1â€“08â€“04]: IRON AND MYELIN AS SOURCES OF MRI CONTRAST IN PATIENTS WITH ALZHEIMER's DISEASE. Alzheimer's and Dementia, 2017, 13, P208.	0.8	0

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109	P3â€450: COARSE PLAQUES ARE MORE COMMON IN EARLY ONSET COMPARED TO LATE ONSET ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P1290.	0.8	0
110	ICâ€Pâ€122: THE NORMAL AGING BRAIN COLLECTION AMSTERDAM (NABCA): A COMPREHENSIVE COLLECTION OF POSTMORTEM IMAGING, NEUROPATHOLOGICAL AND MORPHOMETRIC DATASETS. Alzheimer's and Dementia, 2018, 14, P103.	0.8	0
111	P2â€274: MAPPING OF NATRIURETIC PEPTIDES AND THEIR RECEPTORS IN THE BRAINS OF NONâ€DEMENTED HUMAN SUBJECTS AND PATIENTS WITH ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P782.	0.8	0
112	P2â€477: THE NORMAL AGING BRAIN COLLECTION AMSTERDAM (NABCA): A COMPREHENSIVE COLLECTION OF POSTMORTEM IMAGING, NEUROPATHOLOGICAL AND MORPHOMETRIC DATASETS. Alzheimer's and Dementia, 2018, 14, P907.	0.8	0
113	A novel type of amyloidâ€beta plaques identified in earlyâ€onset AD. Alzheimer's and Dementia, 2020, 16, e040626.	0.8	0
114	Strategic corpus callosum lesions are associated with worse cognitive performance in cerebral amyloid angiopathy. Alzheimer's and Dementia, 2020, 16, e042464.	0.8	0
115	Heat shock protein overexpression - effect on experimental stroke. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S508-S508.	4.3	0
116	A comparison of FAIR and CASL perfusion imaging in mice. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S343-S343.	4.3	0
117	Vascular and haemodynamic response following chronic hypoperfusion in the developing and mature rat. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S218-S218.	4.3	0
118	Volumetry and Other Quantitative Measurements to Assess the Rodent Brain. Methods in Molecular Biology, 2011, 771, 277-291.	0.9	0
119	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2018, , 63-92.		0