

# Louise van der Weerd

## List of Publications by Year in descending order

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119  
papers

4,434  
citations

94381

37  
h-index

123376

61  
g-index

129  
all docs

129  
docs citations

129  
times ranked

6998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of an Arsenal. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 215-246.	2.5	298
2	Pretreatment with Interferon- $\beta$ Enhances the Therapeutic Activity of Mesenchymal Stromal Cells in Animal Models of Colitis. <i>Stem Cells</i> , 2011, 29, 1549-1558.	1.4	287
3	Cognitive deficits in <i>Tsc1</i> <sup>+/Δ</sup> mice in the absence of cerebral lesions and seizures. <i>Annals of Neurology</i> , 2007, 62, 648-655.	2.8	233
4	Super-resolution methods in MRI: Can they improve the trade-off between resolution, signal-to-noise ratio, and acquisition time?. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1983-1993.	1.9	187
5	Imaging beta amyloid aggregation and iron accumulation in Alzheimer's disease using quantitative susceptibility mapping MRI. <i>NeuroImage</i> , 2019, 191, 176-185.	2.1	122
6	A central role for venom in predation by <i>Varanus komodoensis</i> (Komodo Dragon) and the extinct giant <i>Varanus</i> ( <i>Megalania</i> ) <i>priscus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8969-8974.	3.3	120
7	Cortical Iron Reflects Severity of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 1533-1545.	1.2	119
8	Enhanced glutathione PEGylated liposomal brain delivery of an anti-amyloid single domain antibody fragment in a mouse model for Alzheimer's disease. <i>Journal of Controlled Release</i> , 2015, 203, 40-50.	4.8	114
9	The Chronic Vascular and Haemodynamic Response after Permanent Bilateral Common Carotid Occlusion in Newborn and Adult Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1066-1075.	2.4	108
10	Low dystrophin levels increase survival and improve muscle pathology and function in dystrophin/utrophin double-knockout mice. <i>FASEB Journal</i> , 2013, 27, 2484-2495.	0.2	94
11	Postmortem MRI and histology demonstrate differential iron accumulation and cortical myelin organization in early- and late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2018, 62, 231-242.	1.5	93
12	Evolution and diversification of the Toxicofera reptile venom system. <i>Journal of Proteomics</i> , 2009, 72, 127-136.	1.2	91
13	Iron loading is a prominent feature of activated microglia in Alzheimer's disease patients. <i>Acta Neuropathologica Communications</i> , 2021, 9, 27.	2.4	79
14	Orientation of the Pheophorbide Electron Acceptor Anion Radical in Photosystem I. <i>Biochemistry</i> , 1997, 36, 9297-9303.	1.2	78
15	Mouse Models to Study the Effect of Cardiovascular Risk Factors on Brain Structure and Cognition. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1666-1684.	2.4	78
16	Quantitative NMR microscopy of osmotic stress responses in maize and pearl millet. <i>Journal of Experimental Botany</i> , 2001, 52, 2333-2343.	2.4	76
17	Functional and Structural Diversification of the Anguimorpha Lizard Venom System. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2369-2390.	2.5	70
18	Nuclear magnetic resonance imaging of membrane permeability changes in plants during osmotic stress. <i>Plant, Cell and Environment</i> , 2002, 25, 1539-1549.	2.8	64

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19	Neuroprotective Effects of Virally Delivered HSPs in Experimental Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 371-381.	2.4	60
20	Scattered Deletion of PKD1 in Kidneys Causes a Cystic Snowball Effect and Recapitulates Polycystic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1322-1333.	3.0	60
21	Scavenger Receptor- $\alpha$ Targeted Iron Oxide Nanoparticles for In Vivo MRI Detection of Atherosclerotic Lesions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1812-1819.	1.1	59
22	Potential role of antimicrobial peptides in the early onset of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2015, 11, 51-57.	0.4	58
23	Neuroprotective effects of HSP70 overexpression after cerebral ischaemia—An MRI study. <i>Experimental Neurology</i> , 2005, 195, 257-266.	2.0	56
24	Squeezers and Leaf-cutters: Differential Diversification and Degeneration of the Venom System in Toxicoferan Reptiles. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1881-1899.	2.5	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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 274-282.	2.4	50
26	Cerebral Amyloidosis: Postmortem Detection with Human 7.0-T MR Imaging System. <i>Radiology</i> , 2009, 253, 788-796.	3.6	49
27	MRI artifacts in human brain tissue after prolonged formalin storage. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1750-1758.	1.9	47
28	Low dystrophin levels in heart can delay heart failure in mdx mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 69, 17-23.	0.9	47
29	Fusion of hlgG1-Fc to $^{111}\text{In}$ -anti-amyloid single domain antibody fragment VHH-pa2H prolongs blood residential time in APP/PS1 mice but does not increase brain uptake. <i>Nuclear Medicine and Biology</i> , 2015, 42, 695-702.	0.3	47
30	Postmortem T2*-Weighted MRI Imaging of Cortical Iron Reflects Severity of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 1125-1137.	1.2	47
31	Modelling of Self-diffusion and Relaxation Time NMR in Multicompartment Systems with Cylindrical Geometry. <i>Journal of Magnetic Resonance</i> , 2002, 156, 213-221.	1.2	46
32	Initial stress in biomechanical models of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2011, 44, 2376-2382.	0.9	46
33	Cell tracking using iron oxide fails to distinguish dead from living transplanted cells in the infarcted heart. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 817-821.	1.9	45
34	Overexpression of Heat Shock Protein 27 Reduces Cortical Damage after Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 849-856.	2.4	45
35	The coarse-grained plaque: a divergent $\text{A}\beta^2$ plaque-type in early-onset Alzheimer's disease. <i>Acta Neuropathologica</i> , 2020, 140, 811-830.	3.9	45
36	Co-expression patterns of microglia markers Iba1, TMEM119 and P2RY12 in Alzheimer's disease. <i>Neurobiology of Disease</i> , 2022, 167, 105684.	2.1	45

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37	Water-conducting properties of lipids during pollen hydration. <i>Plant, Cell and Environment</i> , 2002, 25, 513-519.	2.8	43
38	Changes in GABA <sub>A</sub> receptor properties in amygdala kindled animals: In vivo studies using [ <sup>11</sup> C]flumazenil and positron emission tomography. <i>Epilepsia</i> , 2009, 50, 88-98.	2.6	43
39	In vivo biodistribution of stem cells using molecular nuclear medicine imaging. <i>Journal of Cellular Physiology</i> , 2011, 226, 1444-1452.	2.0	41
40	Quantitative comparison of different iron forms in the temporal cortex of Alzheimer patients and control subjects. <i>Scientific Reports</i> , 2018, 8, 6898.	1.6	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. <i>Zoomorphology</i> , 2017, 136, 107-130.	0.4	38
42	Evaluation of algorithms for analysis of NMR relaxation decay curves. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1151-1158.	1.0	37
43	Vascular Hypothesis of Alzheimer Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 1265-1283.	1.1	37
44	High-field MRI of single histological slices using an inductively coupled, self-resonant microcoil: application to <i>ex vivo</i> samples of patients with Alzheimer's disease. <i>NMR in Biomedicine</i> , 2011, 24, 351-357.	1.6	36
45	The Evolution of Fangs, Venom, and Mimicry Systems in Blenny Fishes. <i>Current Biology</i> , 2017, 27, 1184-1191.	1.8	36
46	In Vivo Detection of Amyloid- $\beta$ Deposits Using Heavy Chain Antibody Fragments in a Transgenic Mouse Model for Alzheimer's Disease. <i>PLoS ONE</i> , 2012, 7, e38284.	1.1	34
47	A novel approach to quantify different iron forms in <i>ex-vivo</i> human brain tissue. <i>Scientific Reports</i> , 2016, 6, 38916.	1.6	33
48	$T_1$ relaxation in in vivo mouse brain at ultra-high field. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 390-395.	1.9	32
49	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1229-1236.	1.9	31
50	In vivo bioluminescence imaging of vascular remodeling after stroke. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 274.	1.8	29
51	Influence of different isoflurane anesthesia protocols on murine cerebral hemodynamics measured with pseudo-continuous arterial spin labeling. <i>NMR in Biomedicine</i> , 2019, 32, e4105.	1.6	29
52	Transit time mapping in the mouse brain using time-encoded pCASL. <i>NMR in Biomedicine</i> , 2018, 31, e3855.	1.6	28
53	7T MRI allows detection of disturbed cortical lamination of the medial temporal lobe in patients with Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 21, 101665.	1.4	28
54	Non-invasive tracking of avian development <i>in vivo</i> by MRI. <i>NMR in Biomedicine</i> , 2009, 22, 365-373.	1.6	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. <i>NeuroImage: Clinical</i> , 2019, 22, 101698.	1.4	25
56	Iron accumulation induces oxidative stress, while depressing inflammatory polarization in human iPSC-derived microglia. <i>Stem Cell Reports</i> , 2022, 17, 1351-1365.	2.3	25
57	Cerebral amyloid angiopathy-linked $\beta^2$ -amyloid mutations promote cerebral fibrin deposits via increased binding affinity for fibrinogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14482-14492.	3.3	24
58	Effects of Long-Term Endogenous Corticosteroid Exposure on Brain Volume and Glial Cells in the AdKO Mouse. <i>Frontiers in Neuroscience</i> , 2021, 15, 604103.	1.4	24
59	MR image-guided investigation of regional signal transducers and activators of transcription-1 activation in a rat model of focal cerebral ischemia. <i>Neuroscience</i> , 2004, 127, 333-339.	1.1	23
60	Amyloid imaging of dutchâ€”type hereditary cerebral amyloid angiopathy carriers. <i>Annals of Neurology</i> , 2019, 86, 616-625.	2.8	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. <i>NeuroImage</i> , 2020, 215, 116808.	2.1	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. <i>Acta Neuropathologica Communications</i> , 2015, 3, 89.	2.4	20
63	Continuous infusion of manganese improves contrast and reduces side effects in manganese-enhanced magnetic resonance imaging studies. <i>NeuroImage</i> , 2017, 147, 1-9.	2.1	20
64	Assessment of cardiac function in three mouse dystrophinopathies by magnetic resonance imaging. <i>Neuromuscular Disorders</i> , 2012, 22, 418-426.	0.3	19
65	MR Microscopy of Human Amyloid- $\beta^2$ Deposits: Characterization of Parenchymal Amyloid, Diffuse Plaques, and Vascular Amyloid. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 1037-1049.	1.2	17
66	Effects of Alzheimerâ€™s disease and formalin fixation on the different mineralised-iron forms in the human brain. <i>Scientific Reports</i> , 2020, 10, 16440.	1.6	17
67	Polyfluorinated bis-styrylbenzenes as amyloid- $\beta^2$ plaque binding ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2469-2481.	1.4	16
68	Progression and Classification of Granular Osmiophilic Material (GOM) Deposits in Functionally Characterized Human NOTCH3 Transgenic Mice. <i>Translational Stroke Research</i> , 2020, 11, 517-527.	2.3	16
69	Camelid heavy chain only antibody fragment domain against $\beta^2$ â€™site of amyloid precursor protein cleaving enzyme 1 inhibits $\beta^2$ â€™secretase activity <i>in vitro</i> and <i>in vivo</i> . <i>FEBS Journal</i> , 2015, 282, 3618-3631.	2.2	15
70	TGF $\beta^2$ pathway deregulation and abnormal phosphoâ€™SMAD2/3 staining in hereditary cerebral hemorrhage with amyloidosisâ€™Dutch type. <i>Brain Pathology</i> , 2018, 28, 495-506.	2.1	15
71	Cerebral Amyloid Angiopathy With Vascular Iron Accumulation and Calcification. <i>Stroke</i> , 2018, 49, 2081-2087.	1.0	15
72	Voluntary exercise improves muscle function and does not exacerbate muscle and heart pathology in aged Duchenne muscular dystrophy mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 125, 29-38.	0.9	15

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73	Osteopontin and phospho- $\beta$ SMAD2/3 are associated with calcification of vessels in D $\beta$ CAA, an hereditary cerebral amyloid angiopathy. <i>Brain Pathology</i> , 2019, 29, 793-802.	2.1	15
74	Human-brain ferritin studied by muon spin rotation: a pilot study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 415801.	0.7	13
75	Natriuretic Peptides in Post-mortem Brain Tissue and Cerebrospinal Fluid of Non-demented Humans and Alzheimer's Disease Patients. <i>Frontiers in Neuroscience</i> , 2018, 12, 864.	1.4	13
76	Brain Transcriptomic Analysis of Hereditary Cerebral Hemorrhage With Amyloidosis-Dutch Type. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 102.	1.7	13
77	MR-Based Molecular Imaging of the Brain: The Next Frontier. <i>American Journal of Neuroradiology</i> , 2010, 31, 1577-1583.	1.2	12
78	CSF enhancement on post-contrast fluid-attenuated inversion recovery images; a systematic review. <i>NeuroImage: Clinical</i> , 2020, 28, 102456.	1.4	12
79	Cerebral blood flow and cerebrovascular reactivity are preserved in a mouse model of cerebral microvascular amyloidosis. <i>ELife</i> , 2021, 10, .	2.8	12
80	MRI of Animal Models of Brain Disease. <i>Methods in Enzymology</i> , 2004, 386, 149-177.	0.4	11
81	Histological validation of iron-oxide and gadolinium based MRI contrast agents in experimental atherosclerosis: The do's and don't's. <i>Atherosclerosis</i> , 2012, 225, 274-280.	0.4	11
82	Influence of full-length dystrophin on brain volumes in mouse models of Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2018, 13, e0194636.	1.1	10
83	Expandable human cardiovascular progenitors from stem cells for regenerating mouse heart after myocardial infarction. <i>Cardiovascular Research</i> , 2020, 116, 545-553.	1.8	10
84	Pathological characterization of T2*-weighted MRI contrast in the striatum of Huntington's disease patients. <i>NeuroImage: Clinical</i> , 2020, 28, 102498.	1.4	9
85	Pre-clinical optical imaging and MRI for drug development in Alzheimer's disease. <i>Drug Discovery Today: Technologies</i> , 2011, 8, e117-e125.	4.0	8
86	Quantification of different iron forms in the aceruloplasminemia brain to explore iron-related neurodegeneration. <i>NeuroImage: Clinical</i> , 2021, 30, 102657.	1.4	8
87	Contrast enhancement by lipid-based MRI contrast agents in mouse atherosclerotic plaques; a longitudinal study. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 63-71.	0.4	7
88	9.4T and 17.6T MRI of Retinoblastoma: Ex Vivo evaluation of microstructural anatomy and disease extent compared with histopathology. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1487-1497.	1.9	7
89	Histopathological correlates of haemorrhagic lesions on <i>ex vivo</i> magnetic resonance imaging in immunized Alzheimer's disease cases. <i>Brain Communications</i> , 2022, 4, fcac021.	1.5	7
90	Corpus callosum lesions are associated with worse cognitive performance in cerebral amyloid angiopathy. <i>Brain Communications</i> , 2022, 4, .	1.5	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. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 593-600.	1.9	6
92	The time window of MRI of murine atherosclerotic plaques after administration of CB2 receptor targeted micelles: inter-scan variability and relation between plaque signal intensity increase and gadolinium content of inversion recovery prepared versus non-prepared fast spin echo. <i>NMR in Biomedicine</i> , 2010, 23, 939-951.	1.6	5
93	Cardiac Dysfunction in Pneumovirus-Induced Lung Injury in Mice. <i>Pediatric Critical Care Medicine</i> , 2013, 14, e243-e249.	0.2	5
94	Bis-pyridylethenyl benzene as novel backbone for amyloid- $\beta$ binding compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6139-6148.	1.4	5
95	Super-resolution in MRI: better images faster?. <i>Proceedings of SPIE</i> , 2012, , .	0.8	4
96	Self-Gated CINE MRI for Combined Contrast-Enhanced Imaging and Wall-Stiffness Measurements of Murine Aortic Atherosclerotic Lesions. <i>PLoS ONE</i> , 2013, 8, e57299.	1.1	4
97	Off-resonance saturation as an MRI method to quantify mineral-iron in the post-mortem brain. <i>Magnetic Resonance in Medicine</i> , 2021, , .	1.9	4
98	The 3D Moore-Rayleigh Test for the Quantitative Groupwise Comparison of MR Brain Images. <i>Lecture Notes in Computer Science</i> , 2009, 21, 564-575.	1.0	3
99	MRI in Animal Models of Psychiatric Disorders. <i>Methods in Molecular Biology</i> , 2011, 771, 309-335.	0.4	3
100	Interactive Local Super-Resolution Reconstruction of Whole-Body MRI Mouse Data: A Pilot Study with Applications to Bone and Kidney Metastases. <i>PLoS ONE</i> , 2014, 9, e108730.	1.1	3
101	MR imaging for the quantitative assessment of brain iron in aceruloplasminemia: A postmortem validation study. <i>NeuroImage</i> , 2021, 245, 118752.	2.1	3
102	Automated segmentation of the ex vivo mouse brain. , 2007, , .		2
103	Three-dimensional inversion recovery manganese-enhanced MRI of mouse brain using super-resolution reconstruction to visualize nuclei involved in higher brain function. <i>NMR in Biomedicine</i> , 2014, 27, 749-759.	1.6	2
104	Quantitative susceptibility mapping in the thalamus and basal ganglia of systemic lupus erythematosus patients with neuropsychiatric complaints. <i>NeuroImage: Clinical</i> , 2021, 30, 102637.	1.4	2
105	Occipital Cortical Calcifications in Cerebral Amyloid Angiopathy. <i>Stroke</i> , 2021, 52, 1851-1855.	1.0	2
106	P4001: Overactivation of NMDA receptors in the aged APP <sup>swe</sup> /PS1 <sup>dE9</sup> brain, a mouse model of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2012, 8, P638.	0.4	0
107	Molecular Magnetic Resonance Imaging for the Detection of Vulnerable Plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, , .	1.1	0
108	[O1804]: IRON AND MYELIN AS SOURCES OF MRI CONTRAST IN PATIENTS WITH ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P208.	0.4	0

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109	P3â€¢450: COARSE PLAQUES ARE MORE COMMON IN EARLY ONSET COMPARED TO LATE ONSET ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2018, 14, P1290.	0.4	0
110	ICâ€¢Pâ€¢122: THE NORMAL AGING BRAIN COLLECTION AMSTERDAM (NABCA): A COMPREHENSIVE COLLECTION OF POSTMORTEM IMAGING, NEUROPATHOLOGICAL AND MORPHOMETRIC DATASETS. <i>Alzheimer's and Dementia</i> , 2018, 14, P103.	0.4	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. <i>Alzheimer's and Dementia</i> , 2018, 14, P782.	0.4	0
112	P2â€¢477: THE NORMAL AGING BRAIN COLLECTION AMSTERDAM (NABCA): A COMPREHENSIVE COLLECTION OF POSTMORTEM IMAGING, NEUROPATHOLOGICAL AND MORPHOMETRIC DATASETS. <i>Alzheimer's and Dementia</i> , 2018, 14, P907.	0.4	0
113	A novel type of amyloidâ€¢beta plaques identified in earlyâ€¢onset AD. <i>Alzheimer's and Dementia</i> , 2020, 16, e040626.	0.4	0
114	Strategic corpus callosum lesions are associated with worse cognitive performance in cerebral amyloid angiopathy. <i>Alzheimer's and Dementia</i> , 2020, 16, e042464.	0.4	0
115	Heat shock protein overexpression - effect on experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S508-S508.	2.4	0
116	A comparison of FAIR and CASL perfusion imaging in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S343-S343.	2.4	0
117	Vascular and haemodynamic response following chronic hypoperfusion in the developing and mature rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S218-S218.	2.4	0
118	Volumetry and Other Quantitative Measurements to Assess the Rodent Brain. <i>Methods in Molecular Biology</i> , 2011, 771, 277-291.	0.4	0
119	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2018, , 63-92.		0