

# Simon Eskildsen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

2,213  
citations

24  
h-index

46  
g-index

88  
ext. papers

2,816  
ext. citations

4.9  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
70	BEaST: brain extraction based on nonlocal segmentation technique. <i>NeuroImage</i> , <b>2012</b> , 59, 2362-73	7.9	339
69	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: the CADDementia challenge. <i>NeuroImage</i> , <b>2015</b> , 111, 562-79	7.9	193
68	Prediction of Alzheimer's disease in subjects with mild cognitive impairment from the ADNI cohort using patterns of cortical thinning. <i>NeuroImage</i> , <b>2013</b> , 65, 511-21	7.9	176
67	A new method for structural volume analysis of longitudinal brain MRI data and its application in studying the growth trajectories of anatomical brain structures in childhood. <i>NeuroImage</i> , <b>2013</b> , 82, 393-402	7.9	107
66	Simultaneous segmentation and grading of anatomical structures for patient's classification: application to Alzheimer's disease. <i>NeuroImage</i> , <b>2012</b> , 59, 3736-47	7.9	107
65	Brain inflammation accompanies amyloid in the majority of mild cognitive impairment cases due to Alzheimer's disease. <i>Brain</i> , <b>2017</b> , 140, 2002-2011	11.2	105
64	Longitudinal MRI study of cortical thickness, perfusion, and metabolite levels in major depressive disorder. <i>Acta Psychiatrica Scandinavica</i> , <b>2011</b> , 124, 435-46	6.5	101
63	Structural imaging biomarkers of Alzheimer's disease: predicting disease progression. <i>Neurobiology of Aging</i> , <b>2015</b> , 36 Suppl 1, S23-31	5.6	83
62	Scoring by nonlocal image patch estimator for early detection of Alzheimer's disease. <i>NeuroImage: Clinical</i> , <b>2012</b> , 1, 141-52	5.3	82
61	Capillary dysfunction is associated with symptom severity and neurodegeneration in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2017</b> , 13, 1143-1153	1.2	65
60	Reduced cortical thickness of brain areas involved in pain processing in patients with chronic pancreatitis. <i>Clinical Gastroenterology and Hepatology</i> , <b>2012</b> , 10, 434-8.e1	6.9	61
59	Cortical thickness alterations in social anxiety disorder. <i>Neuroscience Letters</i> , <b>2013</b> , 536, 52-5	3.3	48
58	Increased cortical capillary transit time heterogeneity in Alzheimer's disease: a DSC-MRI perfusion study. <i>Neurobiology of Aging</i> , <b>2017</b> , 50, 107-118	5.6	47
57	Capillary dysfunction: its detection and causative role in dementias and stroke. <i>Current Neurology and Neuroscience Reports</i> , <b>2015</b> , 15, 37	6.6	45
56	The relationships between neuroinflammation, beta-amyloid and tau deposition in Alzheimer's disease: a longitudinal PET study. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 151	10.1	45
55	Bovine Milk Oligosaccharides with Sialyllactose Improves Cognition in Preterm Pigs. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	35
54	Nonlocal intracranial cavity extraction. <i>International Journal of Biomedical Imaging</i> , <b>2014</b> , 2014, 820205	5.2	35

53	Does inflammation precede tau aggregation in early Alzheimer's disease? A PET study. <i>Neurobiology of Disease</i> , <b>2018</b> , 117, 211-216	7.5	34
52	Detection of Alzheimer's disease signature in MR images seven years before conversion to dementia: Toward an early individual prognosis. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 4758-70	5.9	32
51	Automatic thalamus and hippocampus segmentation from MP2RAGE: comparison of publicly available methods and implications for DTI quantification. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 1979-1991	3.9	31
50	The effect of crack cocaine addiction and age on the microstructure and morphology of the human striatum and thalamus using shape analysis and fast diffusion kurtosis imaging. <i>Translational Psychiatry</i> , <b>2017</b> , 7, e1122	8.6	28
49	White matter biomarkers from fast protocols using axially symmetric diffusion kurtosis imaging. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3741	4.4	27
48	Quantitative magnetic resonance imaging of cortical multiple sclerosis pathology. <i>Multiple Sclerosis International</i> , <b>2012</b> , 2012, 742018	1.1	25
47	Microstructural changes in the thalamus after mild traumatic brain injury: A longitudinal diffusion and mean kurtosis tensor MRI study. <i>Brain Injury</i> , <b>2017</b> , 31, 230-236	2.1	24
46	White matter abnormalities and structural hippocampal disconnections in amnesic mild cognitive impairment and Alzheimer's disease. <i>PLoS ONE</i> , <b>2013</b> , 8, e74776	3.7	23
45	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , <b>2020</b> , 221, 117201	7.9	22
44	Cortical volumes and atrophy rates in FTD-3 CHMP2B mutation carriers and related non-carriers. <i>NeuroImage</i> , <b>2009</b> , 45, 713-21	7.9	21
43	Transit time homogenization in ischemic stroke - A novel biomarker of penumbral microvascular failure?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2018</b> , 38, 2006-2020	7.3	19
42	Active surface approach for extraction of the human cerebral cortex from MRI <b>2006</b> , 9, 823-30		19
41	Thinner cortex in the frontal lobes in mentally disordered offenders. <i>Psychiatry Research - Neuroimaging</i> , <b>2012</b> , 203, 126-31	2.9	18
40	Validation of structural brain connectivity networks: The impact of scanning parameters. <i>NeuroImage</i> , <b>2020</b> , 204, 116207	7.9	17
39	Efficacy of High-Intensity Aerobic Exercise on Brain MRI Measures in Multiple Sclerosis. <i>Neurology</i> , <b>2021</b> , 96, e203-e213	6.5	16
38	Neuropsychological Status and Structural Brain Imaging in Adults With Simple Congenital Heart Defects Closed in Childhood. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e015843	6	12
37	Reduced cerebral cortical thickness in Non-cirrhotic patients with hepatitis C. <i>Metabolic Brain Disease</i> , <b>2016</b> , 31, 311-9	3.9	11
36	Low plasma neurofilament light levels associated with raised cortical microglial activation suggest inflammation acts to protect prodromal Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , <b>2020</b> , 12, 3	9	10

35	Simultaneous segmentation and grading of hippocampus for patient classification with Alzheimer's disease. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 149-57	0.9	9
34	A Critical Systematic Review of Current Evidence on the Effects of Physical Exercise on Whole/Regional Grey Matter Brain Volume in Populations at Risk of Neurodegeneration. <i>Sports Medicine</i> , <b>2021</b> , 51, 1651-1671	10.6	9
33	Active Surface Approach for Extraction of the Human Cerebral Cortex from MRI. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 823-830	0.9	9
32	Oxygenation differs among white matter hyperintensities, intersected fiber tracts and unaffected white matter. <i>Brain Communications</i> , <b>2019</b> , 1, fcz033	4.5	8
31	Diffusion MRI findings in patients with extensive and minimal post-concussion symptoms after mTBI and healthy controls: a cross sectional study. <i>Brain Injury</i> , <b>2018</b> , 32, 91-98	2.1	8
30	Abnormal Amyloid Load in Mild Cognitive Impairment: The Effect of Reducing the PiB-PET Threshold. <i>Journal of Neuroimaging</i> , <b>2019</b> , 29, 499-505	2.8	7
29	Extraction of the cerebral cortical boundaries from MRI for measurement of cortical thickness <b>2005</b> ,		7
28	Brain volumetric alterations accompanied with loss of striatal medium-sized spiny neurons and cortical parvalbumin expressing interneurons in Brd1 mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 16486	4.9	7
27	Quantitative comparison of two cortical surface extraction methods using MRI phantoms <b>2007</b> , 10, 409-16		7
26	Evaluation of Five Algorithms for Mapping Brain Cortical Surfaces <b>2008</b> ,		6
25	Improving the SIENA performance using BEaST brain extraction. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196945	3.7	6
24	Impaired perfusion and capillary dysfunction in prodromal Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , <b>2020</b> , 12, e12032	5.2	5
23	Segmentation of cortical MS lesions on MRI using automated laminar profile shape analysis. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 181-8	0.9	4
22	Late toxicity in the brain after radiotherapy for sinonasal cancer: Neurocognitive functioning, MRI of the brain and quality of life. <i>Clinical and Translational Radiation Oncology</i> , <b>2020</b> , 25, 52-60	4.6	4
21	Abnormal Left-Hemispheric Sulcal Patterns in Adults With Simple Congenital Heart Defects Repaired in Childhood. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e018580	6	4
20	Study protocol: randomised controlled trial evaluating exercise therapy as a supplemental treatment strategy in early multiple sclerosis: the Early Multiple Sclerosis Exercise Study (EMSES). <i>BMJ Open</i> , <b>2021</b> , 11, e043699	3	4
19	Quantitative Comparison of Two Cortical Surface Extraction Methods Using MRI Phantoms <b>2007</b> , 409-416		3
18	A multidimensional cohort study of late toxicity after intensity modulated radiotherapy for sinonasal cancer. <i>Radiotherapy and Oncology</i> , <b>2020</b> , 151, 58-65	5.3	3

17	A cross-sectional comparison of performance, neurophysiological and MRI outcomes of responders and non-responders to fampridine treatment in multiple sclerosis - An explorative study. <i>Journal of Clinical Neuroscience</i> , <b>2020</b> , 82, 179-185	2.2	3
16	Short echo-time Magnetic Resonance Spectroscopy in ALS, simultaneous quantification of glutamate and GABA at 3 T. <i>Scientific Reports</i> , <b>2019</b> , 9, 17593	4.9	3
15	Dairy-Derived Emulsifiers in Infant Formula Show Marginal Effects on the Plasma Lipid Profile and Brain Structure in Preterm Piglets Relative to Soy Lecithin. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
14	Patch-Based Segmentation from MP2RAGE Images: Comparison to Conventional Techniques. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 180-187	0.9	2
13	Cortical diffusion kurtosis imaging and thalamic volume are associated with cognitive and walking performance in relapsing-remitting multiple sclerosis. <i>Journal of Neurology</i> , <b>2021</b> , 268, 3861-3870	5.5	2
12	Microstructural changes in the brain after long-term post-concussion symptoms: A randomized trial. <i>Journal of Neuroscience Research</i> , <b>2021</b> , 99, 872-886	4.4	2
11	Infants with congenital heart defects have reduced brain volumes. <i>Scientific Reports</i> , <b>2021</b> , 11, 4191	4.9	2
10	Cerebral hemodynamics and capillary dysfunction in late-onset major depressive disorder. <i>Psychiatry Research - Neuroimaging</i> , <b>2021</b> , 317, 111383	2.9	2
9	IC-04-01: Cortical capillary dysfunction in patients suspected of Alzheimer's disease <b>2015</b> , 11, P9-P10		1
8	Early detection of AD using cortical thickness measurements <b>2007</b> ,		1
7	Impaired cerebral microcirculation in isolated REM sleep behaviour disorder. <i>Brain</i> , <b>2021</b> , 144, 1498-1508	1.2	1
6	Investigating the potential disease-modifying and neuroprotective efficacy of exercise therapy early in the disease course of multiple sclerosis: The Early Multiple Sclerosis Exercise Study (EMSES).. <i>Multiple Sclerosis Journal</i> , <b>2022</b> , 13524585221079200	5	1
5	Clinical, Neurophysiological, and MRI Markers of Fampridine Responsiveness in Multiple Sclerosis-An Explorative Study. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 758710	4.1	0
4	Spatio-temporal Regularization for Longitudinal Registration to an Unbiased 3D Individual Template. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 1-12	0.9	0
3	Capillary function progressively deteriorates in prodromal Alzheimer's disease: A longitudinal MRI perfusion study. <i>Aging Brain</i> , <b>2022</b> , 2, 100035		0
2	P4-062: Cortical capillary dysfunction in patients suspected of Alzheimer's disease <b>2015</b> , 11, P790-P791		
1	A New Framework for Analyzing Structural Volume Changes of Longitudinal Brain MRI Data. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 50-62	0.9	