

# Simon Eskildsen

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,263  
citations

201674

27  
h-index

161849

54  
g-index

88  
all docs

88  
docs citations

88  
times ranked

5202  
citing authors

#	ARTICLE	IF	CITATIONS
1	BEaST: Brain extraction based on nonlocal segmentation technique. <i>NeuroImage</i> , 2012, 59, 2362-2373.	4.2	507
2	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge. <i>NeuroImage</i> , 2015, 111, 562-579.	4.2	266
3	Prediction of Alzheimer's disease in subjects with mild cognitive impairment from the ADNI cohort using patterns of cortical thinning. <i>NeuroImage</i> , 2013, 65, 511-521.	4.2	224
4	Brain inflammation accompanies amyloid in the majority of mild cognitive impairment cases due to Alzheimer's disease. <i>Brain</i> , 2017, 140, 2002-2011.	7.6	147
5	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> , 2013, 82, 393-402.	4.2	145
6	Simultaneous segmentation and grading of anatomical structures for patient's classification: Application to Alzheimer's disease. <i>NeuroImage</i> , 2012, 59, 3736-3747.	4.2	129
7	The relationships between neuroinflammation, beta-amyloid and tau deposition in Alzheimer's disease: a longitudinal PET study. <i>Journal of Neuroinflammation</i> , 2020, 17, 151.	7.2	122
8	Longitudinal MRI study of cortical thickness, perfusion, and metabolite levels in major depressive disorder. <i>Acta Psychiatrica Scandinavica</i> , 2011, 124, 435-446.	4.5	121
9	Scoring by nonlocal image patch estimator for early detection of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2012, 1, 141-152.	2.7	104
10	Structural imaging biomarkers of Alzheimer's disease: predicting disease progression. <i>Neurobiology of Aging</i> , 2015, 36, S23-S31.	3.1	101
11	Capillary dysfunction is associated with symptom severity and neurodegeneration in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2017, 13, 1143-1153.	0.8	86
12	Reduced Cortical Thickness of Brain Areas Involved in Pain Processing in Patients With Chronic Pancreatitis. <i>Clinical Gastroenterology and Hepatology</i> , 2012, 10, 434-438.e1.	4.4	73
13	Capillary Dysfunction: Its Detection and Causative Role in Dementias and Stroke. <i>Current Neurology and Neuroscience Reports</i> , 2015, 15, 37.	4.2	68
14	Cortical thickness alterations in social anxiety disorder. <i>Neuroscience Letters</i> , 2013, 536, 52-55.	2.1	64
15	Increased cortical capillary transit time heterogeneity in Alzheimer's disease: a DSC-MRI perfusion study. <i>Neurobiology of Aging</i> , 2017, 50, 107-118.	3.1	61
16	Bovine Milk Oligosaccharides with Sialyllactose Improves Cognition in Preterm Pigs. <i>Nutrients</i> , 2019, 11, 1335.	4.1	60
17	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> , 2015, 36, 4758-4770.	3.6	52
18	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> , 2017, 7, e1122-e1122.	4.8	52

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19	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	4.2	52
20	Nonlocal Intracranial Cavity Extraction. <i>International Journal of Biomedical Imaging</i> , 2014, 2014, 1-11.	3.9	49
21	Does inflammation precede tau aggregation in early Alzheimer's disease? A PET study. <i>Neurobiology of Disease</i> , 2018, 117, 211-216.	4.4	46
22	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> , 2016, 11, 1979-1991.	2.8	40
23	White matter biomarkers from fast protocols using axially symmetric diffusion kurtosis imaging. <i>NMR in Biomedicine</i> , 2017, 30, e3741.	2.8	37
24	Quantitative Magnetic Resonance Imaging of Cortical Multiple Sclerosis Pathology. <i>Multiple Sclerosis International</i> , 2012, 2012, 1-13.	0.8	35
25	Efficacy of High-Intensity Aerobic Exercise on Brain MRI Measures in Multiple Sclerosis. <i>Neurology</i> , 2021, 96, e203-e213.	1.1	35
26	Neuropsychological Status and Structural Brain Imaging in Adults With Simple Congenital Heart Defects Closed in Childhood. <i>Journal of the American Heart Association</i> , 2020, 9, e015843.	3.7	35
27	Microstructural changes in the thalamus after mild traumatic brain injury: A longitudinal diffusion and mean kurtosis tensor MRI study. <i>Brain Injury</i> , 2017, 31, 230-236.	1.2	33
28	Validation of structural brain connectivity networks: The impact of scanning parameters. <i>NeuroImage</i> , 2020, 204, 116207.	4.2	31
29	Transit time homogenization in ischemic stroke – A novel biomarker of penumbral microvascular failure?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 2006-2020.	4.3	29
30	Cortical volumes and atrophy rates in FTD-3 CHMP2B mutation carriers and related non-carriers. <i>NeuroImage</i> , 2009, 45, 713-721.	4.2	28
31	White Matter Abnormalities and Structural Hippocampal Disconnections in Amnesic Mild Cognitive Impairment and Alzheimer's Disease. <i>PLoS ONE</i> , 2013, 8, e74776.	2.5	28
32	Thinner cortex in the frontal lobes in mentally disordered offenders. <i>Psychiatry Research - Neuroimaging</i> , 2012, 203, 126-131.	1.8	26
33	Active Surface Approach for Extraction of the Human Cerebral Cortex from MRI. <i>Lecture Notes in Computer Science</i> , 2006, , 823-830.	1.3	25
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> , 2021, 51, 1651-1671.	6.5	24
35	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> , 2020, 12, 3.	6.2	22
36	Oxygenation differs among white matter hyperintensities, intersected fiber tracts and unaffected white matter. <i>Brain Communications</i> , 2019, 1, fcz033.	3.3	21

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37	Active surface approach for extraction of the human cerebral cortex from MRI. , 2006, 9, 823-30.		19
38	Reduced cerebral cortical thickness in Non-cirrhotic patients with hepatitis C. Metabolic Brain Disease, 2016, 31, 311-319.	2.9	18
39	Impaired perfusion and capillary dysfunction in prodromal Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12032.	2.4	18
40	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). Multiple Sclerosis Journal, 2022, 28, 1620-1629.	3.0	15
41	Brain volumetric alterations accompanied with loss of striatal medium-sized spiny neurons and cortical parvalbumin expressing interneurons in Brd1+/~ mice. Scientific Reports, 2018, 8, 16486.	3.3	14
42	Abnormal Amyloid Load in Mild Cognitive Impairment: The Effect of Reducing the PiB~PET Threshold. Journal of Neuroimaging, 2019, 29, 499-505.	2.0	13
43	A multidimensional cohort study of late toxicity after intensity modulated radiotherapy for sinonasal cancer. Radiotherapy and Oncology, 2020, 151, 58-65.	0.6	12
44	Late toxicity in the brain after radiotherapy for sinonasal cancer: Neurocognitive functioning, MRI of the brain and quality of life. Clinical and Translational Radiation Oncology, 2020, 25, 52-60.	1.7	12
45	Study protocol: randomised controlled trial evaluating exercise therapy as a supplemental treatment strategy in early multiple sclerosis: the Early Multiple Sclerosis Exercise Study (EMSES). BMJ Open, 2021, 11, e043699.	1.9	11
46	Extraction of the cerebral cortical boundaries from MRI for measurement of cortical thickness. , 2005, , .		9
47	Diffusion MRI findings in patients with extensive and minimal post-concussion symptoms after mTBI and healthy controls: a cross sectional study. Brain Injury, 2018, 32, 91-98.	1.2	9
48	Simultaneous Segmentation and Grading of Hippocampus for Patient Classification with Alzheimer~s Disease. Lecture Notes in Computer Science, 2011, 14, 149-157.	1.3	9
49	Evaluation of Five Algorithms for Mapping Brain Cortical Surfaces. , 2008, , .		8
50	Abnormal Left~Hemispheric Sulcal Patterns in Adults With Simple Congenital Heart Defects Repaired in Childhood. Journal of the American Heart Association, 2021, 10, e018580.	3.7	8
51	Cerebral hemodynamics and capillary dysfunction in late-onset major depressive disorder. Psychiatry Research - Neuroimaging, 2021, 317, 111383.	1.8	8
52	Short echo-time Magnetic Resonance Spectroscopy in ALS, simultaneous quantification of glutamate and GABA at 3~T. Scientific Reports, 2019, 9, 17593.	3.3	7
53	Dairy-Derived Emulsifiers in Infant Formula Show Marginal Effects on the Plasma Lipid Profile and Brain Structure in Preterm Piglets Relative to Soy Lecithin. Nutrients, 2021, 13, 718.	4.1	7
54	Infants with congenital heart defects have reduced brain volumes. Scientific Reports, 2021, 11, 4191.	3.3	7

#	ARTICLE	IF	CITATIONS
55	Quantitative Comparison of Two Cortical Surface Extraction Methods Using MRI Phantoms. , 2007, , 409-416.		7
56	Quantitative comparison of two cortical surface extraction methods using MRI phantoms. , 2007, 10, 409-16.		7
57	Improving the SIENA performance using BEaST brain extraction. PLoS ONE, 2018, 13, e0196945.	2.5	6
58	A cross-sectional comparison of performance, neurophysiological and MRI outcomes of responders and non-responders to fampridine treatment in multiple sclerosis â€“ An explorative study. Journal of Clinical Neuroscience, 2020, 82, 179-185.	1.5	6
59	Impaired cerebral microcirculation in isolated REM sleep behaviour disorder. Brain, 2021, 144, 1498-1508.	7.6	6
60	Cortical diffusion kurtosis imaging and thalamic volume are associated with cognitive and walking performance in relapsingâ€“remitting multiple sclerosis. Journal of Neurology, 2021, 268, 3861-3870.	3.6	5
61	Segmentation of Cortical MS Lesions on MRI Using Automated Lamina Profile Shape Analysis. Lecture Notes in Computer Science, 2010, 13, 181-188.	1.3	5
62	Early detection of AD using cortical thickness measurements. , 2007, , .		4
63	Capillary function progressively deteriorates in prodromal Alzheimerâ€™s disease: A longitudinal MRI perfusion study. Aging Brain, 2022, 2, 100035.	1.3	4
64	Microstructural changes in the brain after long-term post-concussion symptoms: A randomized trial. Journal of Neuroscience Research, 2021, 99, 872-886.	2.9	3
65	Patch-Based Segmentation from MP2RAGE Images: Comparison to Conventional Techniques. Lecture Notes in Computer Science, 2015, , 180-187.	1.3	2
66	IC-04-01: Cortical capillary dysfunction in patients suspected of Alzheimer's disease. , 2015, 11, P9-P10.		1
67	Clinical, Neurophysiological, and MRI Markers of Fampridine Responsiveness in Multiple Sclerosisâ€“An Explorative Study. Frontiers in Neurology, 2021, 12, 758710.	2.4	1
68	Spatio-temporal Regularization for Longitudinal Registration to an Unbiased 3D Individual Template. Lecture Notes in Computer Science, 2012, , 1-12.	1.3	1
69	Altered Cerebral Microstructure in Adults With Atrial Septal Defect and Ventricular Septal Defect Repaired in Childhood. Journal of the American Heart Association, 2022, 11, .	3.7	1
70	Partial volume correction using cortical surfaces. , 2010, , .		0
71	P4-062: Cortical capillary dysfunction in patients suspected of Alzheimer's disease. , 2015, 11, P790-P791.		0
72	A New Framework for Analyzing Structural Volume Changes of Longitudinal Brain MRI Data. Lecture Notes in Computer Science, 2012, , 50-62.	1.3	0