

Frank-Erik de Leeuw

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

9,524
citations

76326

40
h-index

43889

91
g-index

129
all docs

129
docs citations

129
times ranked

11441
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroimaging standards for research into small vessel disease and its contribution to ageing and neurodegeneration. <i>Lancet Neurology</i> , The, 2013, 12, 822-838.	10.2	3,919
2	Cerebral small vessel disease: from a focal to a global perspective. <i>Nature Reviews Neurology</i> , 2018, 14, 387-398.	10.1	310
3	Ischaemic stroke in young adults: risk factors and long-term consequences. <i>Nature Reviews Neurology</i> , 2014, 10, 315-325.	10.1	257
4	A Novel Imaging Marker for Small Vessel Disease Based on Skeletonization of White Matter Tracts and Diffusion Histograms. <i>Annals of Neurology</i> , 2016, 80, 581-592.	5.3	250
5	Epidemiology, aetiology, and management of ischaemic stroke in young adults. <i>Lancet Neurology</i> , The, 2018, 17, 790-801.	10.2	239
6	Common variation in PHACTR1 is associated with susceptibility to cervical artery dissection. <i>Nature Genetics</i> , 2015, 47, 78-83.	21.4	195
7	Location Sensitive Deep Convolutional Neural Networks for Segmentation of White Matter Hyperintensities. <i>Scientific Reports</i> , 2017, 7, 5110.	3.3	171
8	Causes and consequences of cerebral small vessel disease. The RUN DMC study: a prospective cohort study. Study rationale and protocol. <i>BMC Neurology</i> , 2011, 11, 29.	1.8	154
9	Relationship Between White Matter Hyperintensities, Cortical Thickness, and Cognition. <i>Stroke</i> , 2015, 46, 425-432.	2.0	147
10	White matter integrity in small vessel disease is related to cognition. <i>NeuroImage: Clinical</i> , 2015, 7, 518-524.	2.7	143
11	Cerebral microbleeds and stroke risk after ischaemic stroke or transient ischaemic attack: a pooled analysis of individual patient data from cohort studies. <i>Lancet Neurology</i> , The, 2019, 18, 653-665.	10.2	143
12	Stroke incidence in young adults according to age, subtype, sex, and time trends. <i>Neurology</i> , 2019, 92, e2444-e2454.	1.1	132
13	Structural network connectivity and cognition in cerebral small vessel disease. <i>Human Brain Mapping</i> , 2016, 37, 300-310.	3.6	122
14	Free water determines diffusion alterations and clinical status in cerebral small vessel disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 764-774.	0.8	108
15	Structural network efficiency predicts conversion to dementia. <i>Neurology</i> , 2016, 86, 1112-1119.	1.1	103
16	Deep multi-scale location-aware 3D convolutional neural networks for automated detection of lacunes of presumed vascular origin. <i>NeuroImage: Clinical</i> , 2017, 14, 391-399.	2.7	99
17	Nonlinear temporal dynamics of cerebral small vessel disease. <i>Neurology</i> , 2017, 89, 1569-1577.	1.1	89
18	Cerebral small vessel disease and incident parkinsonism. <i>Neurology</i> , 2015, 85, 1569-1577.	1.1	85

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19	Serum Neurofilament Light Chain Levels Are Related to Small Vessel Disease Burden. <i>Journal of Stroke</i> , 2018, 20, 228-238.	3.2	82
20	White Matter Microstructural Damage on Diffusion Tensor Imaging in Cerebral Small Vessel Disease. <i>Stroke</i> , 2016, 47, 1679-1684.	2.0	80
21	Ambient air pollution and the risk of ischaemic and haemorrhagic stroke. <i>Lancet Planetary Health</i> , The, 2021, 5, e542-e552.	11.4	75
22	Persistent Cognitive Impairment After Transient Ischemic Attack. <i>Stroke</i> , 2014, 45, 2270-2274.	2.0	73
23	Diagnostic yield and accuracy of CT angiography, MR angiography, and digital subtraction angiography for detection of macrovascular causes of intracerebral haemorrhage: prospective, multicentre cohort study. <i>BMJ</i> , The, 2015, 351, h5762-h5762.	6.0	71
24	Post-stroke fatigue and its association with poor functional outcome after stroke in young adults. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 1120-1126.	1.9	71
25	ESO Guideline on covert cerebral small vessel disease. <i>European Stroke Journal</i> , 2021, 6, CXI-CLXII.	5.5	68
26	Simple MRI score aids prediction of dementia in cerebral small vessel disease. <i>Neurology</i> , 2020, 94, e1294-e1302.	1.1	67
27	Long-term increased risk of unemployment after young stroke. <i>Neurology</i> , 2014, 83, 1132-1138.	1.1	65
28	Disruption of rich club organisation in cerebral small vessel disease. <i>Human Brain Mapping</i> , 2017, 38, 1751-1766.	3.6	64
29	Risk factors and mechanisms of stroke in young adults: The FUTURE study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1631-1641.	4.3	61
30	Automated detection of white matter hyperintensities of all sizes in cerebral small vessel disease. <i>Medical Physics</i> , 2016, 43, 6246-6258.	3.0	59
31	Poststroke Epilepsy Is Associated With a High Mortality After a Stroke at Young Age. <i>Stroke</i> , 2015, 46, 2309-2311.	2.0	55
32	An updated diagnostic approach to subtype definition of vascular parkinsonism – Recommendations from an expert working group. <i>Parkinsonism and Related Disorders</i> , 2018, 49, 9-16.	2.2	55
33	White Matter Lesions Are Associated With Progression of Medial Temporal Lobe Atrophy in Alzheimer Disease. <i>Stroke</i> , 2006, 37, 2248-2252.	2.0	50
34	Ipsilateral hippocampal atrophy is associated with long-term memory dysfunction after ischemic stroke in young adults. <i>Human Brain Mapping</i> , 2015, 36, 2432-2442.	3.6	49
35	Brain atrophy in cerebral small vessel diseases: Extent, consequences, technical limitations and perspectives: The HARNES initiative. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 231-245.	4.3	49
36	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1391-1417.	4.3	48

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37	Association of Stroke Among Adults Aged 18 to 49 Years With Long-term Mortality. JAMA - Journal of the American Medical Association, 2019, 321, 2113.	7.4	48
38	White Matter Integrity and Depressive Symptoms in Cerebral Small Vessel Disease: The RUN DMC Study. American Journal of Geriatric Psychiatry, 2015, 23, 525-535.	1.2	46
39	Predicting the presence of macrovascular causes in non-traumatic intracerebral haemorrhage: the DIAGRAM prediction score. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 674-679.	1.9	46
40	Factors Associated With 8-Year Mortality in Older Patients With Cerebral Small Vessel Disease. JAMA Neurology, 2016, 73, 402.	9.0	43
41	Diffusion-weighted imaging in transient neurological attacks. Annals of Neurology, 2015, 78, 1005-1010.	5.3	42
42	Pregnancy and ischemic stroke: a practical guide to management. Current Opinion in Neurology, 2018, 31, 44-51.	3.6	42
43	The Dutch Acute Stroke Audit: Benchmarking acute stroke care in the Netherlands. European Stroke Journal, 2018, 3, 361-368.	5.5	42
44	Location-specific risk factors for intracerebral hemorrhage. Neurology, 2020, 95, e1807-e1818.	1.1	41
45	White Matter and Hippocampal Volume Predict the Risk of Dementia in Patients with Cerebral Small Vessel Disease: The RUN DMC Study. Journal of Alzheimer's Disease, 2015, 49, 863-873.	2.6	40
46	Disease progression and regression in sporadic small vessel disease—insights from neuroimaging. Clinical Science, 2017, 131, 1191-1206.	4.3	40
47	Remote Ischemic Conditioning as an Additional Treatment for Acute Ischemic Stroke. Stroke, 2019, 50, 1934-1939.	2.0	40
48	Apathy is associated with large-scale white matter network disruption in small vessel disease. Neurology, 2019, 92, e1157-e1167.	1.1	40
49	Robust Segmentation of the Full Cerebral Vasculature in 4D CT of Suspected Stroke Patients. Scientific Reports, 2017, 7, 15622.	3.3	38
50	Development of imaging-based risk scores for prediction of intracranial haemorrhage and ischaemic stroke in patients taking antithrombotic therapy after ischaemic stroke or transient ischaemic attack: a pooled analysis of individual patient data from cohort studies. Lancet Neurology, The, 2021, 20, 294-303.	10.2	37
51	Quality of Life after Young Ischemic Stroke of Mild Severity Is Mainly Influenced by Psychological Factors. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 2183-2188.	1.6	36
52	Post-Stroke Working Memory Dysfunction: A Meta-Analysis and Systematic Review. Neuropsychology Review, 2021, 31, 202-219.	4.9	36
53	Remote Lower White Matter Integrity Increases the Risk of Long-Term Cognitive Impairment After Ischemic Stroke in Young Adults. Stroke, 2016, 47, 2517-2525.	2.0	35
54	Adiposity is related to cerebrovascular and brain volumetry outcomes in the RUN DMC study. Neurology, 2019, 93, e864-e878.	1.1	33

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55	Multi-shell Diffusion MRI Models for White Matter Characterization in Cerebral Small Vessel Disease. <i>Neurology</i> , 2021, 96, e698-e708.	1.1	33
56	Searching for Explanations for Cryptogenic Stroke in the Young: Revealing the Triggers, Causes, and Outcome (SECRETO): Rationale and design. <i>European Stroke Journal</i> , 2017, 2, 116-125.	5.5	30
57	Cognitive performance and poor long-term functional outcome after young stroke. <i>Neurology</i> , 2015, 85, 776-782.	1.1	29
58	Memory decline in elderly with cerebral small vessel disease explained by temporal interactions between white matter hyperintensities and hippocampal atrophy. <i>Hippocampus</i> , 2019, 29, 500-510.	1.9	28
59	Structural network changes in cerebral small vessel disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 196-203.	1.9	28
60	Global Differences in Risk Factors, Etiology, and Outcome of Ischemic Stroke in Young Adults—A Worldwide Meta-analysis. <i>Neurology</i> , 2022, 98, .	1.1	28
61	Women have a poorer very long-term functional outcome after stroke among adults aged 18–50 years: the FUTURE study. <i>Journal of Neurology</i> , 2016, 263, 1099-1105.	3.6	27
62	Plasma A β 2 (Amyloid- β 2) Levels and Severity and Progression of Small Vessel Disease. <i>Stroke</i> , 2018, 49, 884-890.	2.0	27
63	The contribution of acute infarcts to cerebral small vessel disease progression. <i>Annals of Neurology</i> , 2019, 86, 582-592.	5.3	27
64	Network neuroscience of apathy in cerebrovascular disease. <i>Progress in Neurobiology</i> , 2020, 188, 101785.	5.7	27
65	Serum Neurofilament Light Chain Is Associated with Incident Lacunes in Progressive Cerebral Small Vessel Disease. <i>Journal of Stroke</i> , 2020, 22, 369-376.	3.2	27
66	Cardiovascular Disease Is the Main Cause of Long-Term Excess Mortality After Ischemic Stroke in Young Adults. <i>Hypertension</i> , 2015, 65, 670-675.	2.7	26
67	Use of Statins After Ischemic Stroke in Young Adults and Its Association With Long-Term Outcome. <i>Stroke</i> , 2019, 50, 3385-3392.	2.0	26
68	Accelerated development of cerebral small vessel disease in young stroke patients. <i>Neurology</i> , 2016, 87, 1212-1219.	1.1	25
69	Apathy, but not depression, predicts all-cause dementia in cerebral small vessel disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 953-959.	1.9	24
70	Increased Risk of Pregnancy Complications After Stroke. <i>Stroke</i> , 2018, 49, 877-883.	2.0	22
71	Histopathology of diffusion-weighted imaging-positive lesions in cerebral amyloid angiopathy. <i>Acta Neuropathologica</i> , 2020, 139, 799-812.	7.7	21
72	Multicentre Randomised trial of Acute Stroke treatment in the Ambulance with a nitroglycerin Patch (MR ASAP): study protocol for a randomised controlled trial. <i>Trials</i> , 2019, 20, 383.	1.6	20

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73	Alterations and test-retest reliability of functional connectivity network measures in cerebral small vessel disease. <i>Human Brain Mapping</i> , 2020, 41, 2629-2641.	3.6	19
74	White matter hyperintensities at critical crossroads for executive function and verbal abilities in small vessel disease. <i>Human Brain Mapping</i> , 2021, 42, 993-1002.	3.6	18
75	Value-based healthcare in ischemic stroke care: case-mix adjustment models for clinical and patient-reported outcomes. <i>BMC Medical Research Methodology</i> , 2019, 19, 229.	3.1	17
76	Structural network efficiency predicts cognitive decline in cerebral small vessel disease. <i>NeuroImage: Clinical</i> , 2020, 27, 102325.	2.7	17
77	Cognition mediates the relation between structural network efficiency and gait in small vessel disease. <i>NeuroImage: Clinical</i> , 2021, 30, 102667.	2.7	17
78	Endovascular Thrombectomy in Young Patients With Stroke: A MR CLEAN Registry Study. <i>Stroke</i> , 2022, 53, 34-42.	2.0	17
79	Determinants and Temporal Dynamics of Cerebral Small Vessel Disease: 14-Year Follow-Up. <i>Stroke</i> , 2022, 53, 2789-2798.	2.0	17
80	Longitudinal changes in rich club organization and cognition in cerebral small vessel disease. <i>NeuroImage: Clinical</i> , 2019, 24, 102048.	2.7	16
81	Temporal Dynamics of Cortical Microinfarcts in Cerebral Small Vessel Disease. <i>JAMA Neurology</i> , 2020, 77, 643.	9.0	16
82	Lower Ipsilateral Hippocampal Integrity after Ischemic Stroke in Young Adults: A Long-Term Follow-Up Study. <i>PLoS ONE</i> , 2015, 10, e0139772.	2.5	16
83	High Incidence of Diabetes after Stroke in Young Adults and Risk of Recurrent Vascular Events: The FUTURE Study. <i>PLoS ONE</i> , 2014, 9, e87171.	2.5	15
84	Risk of Dementia and Structural Brain Changes Following Nonneurological Infections During 9-Year Follow-Up*. <i>Critical Care Medicine</i> , 2022, 50, 554-564.	0.9	15
85	Prediction of dementia using diffusion tensor MRI measures: the OPTIMAL collaboration. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, 14-23.	1.9	15
86	Investigating the origin and evolution of cerebral small vessel disease: The RUN DMC InTENSE study. <i>European Stroke Journal</i> , 2018, 3, 369-378.	5.5	14
87	The role of small diffusion-weighted imaging lesions in cerebral small vessel disease. <i>Neurology</i> , 2019, 93, 10.1212/WNL.0000000000008364.	1.1	14
88	The effect of repeated remote ischemic postconditioning on infarct size in patients with an ischemic stroke (REPOST): study protocol for a randomized clinical trial. <i>Trials</i> , 2019, 20, 167.	1.6	14
89	ESO Guideline on covert cerebral small vessel disease. <i>European Stroke Journal</i> , 2021, 6, IV-IV.	5.5	14
90	Observational Dutch Young Symptomatic Stroke study (ODYSSEY): study rationale and protocol of a multicentre prospective cohort study. <i>BMC Neurology</i> , 2014, 14, 55.	1.8	13

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91	Late-onset depressive symptoms increase the risk of dementia in small vessel disease. <i>Neurology</i> , 2016, 87, 1102-1109.	1.1	13
92	Executive Function Declines in the First 6 Months After a Transient Ischemic Attack or Transient Neurological Attack. <i>Stroke</i> , 2017, 48, 3323-3328.	2.0	13
93	Cognitive consequences of regression of cerebral small vessel disease. <i>European Stroke Journal</i> , 2019, 4, 85-89.	5.5	12
94	Use of antihypertensive medication after ischemic stroke in young adults and its association with long-term outcome. <i>Annals of Medicine</i> , 2019, 51, 68-77.	3.8	12
95	Metabolomic profiling in small vessel disease identifies multiple associations with disease severity. <i>Brain</i> , 2022, 145, 2461-2471.	7.6	12
96	Prothrombotic factors do not increase the risk of recurrent ischemic events after cryptogenic stroke at young age: the FUTURE study. <i>Journal of Thrombosis and Thrombolysis</i> , 2018, 45, 504-511.	2.1	11
97	Longitudinal Relation Between Structural Network Efficiency, Cognition, and Gait in Cerebral Small Vessel Disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 554-560.	3.6	11
98	Subjective Cognitive Impairment, Depressive Symptoms, and Fatigue after a TIA or Transient Neurological Attack: A Prospective Study. <i>Behavioural Neurology</i> , 2017, 2017, 1-7.	2.1	10
99	Thalamus: a key player in alcohol use disorder and Korsakoff's syndrome. <i>Brain</i> , 2019, 142, 1170-1172.	7.6	9
100	Diffusion-weighted imaging lesions and risk of recurrent stroke after intracerebral haemorrhage. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 950-955.	1.9	9
101	Association of cerebral small vessel disease burden with brain structure and cognitive and vascular risk trajectories in mid-to-late life. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 600-612.	4.3	9
102	Systematic validation of structural brain networks in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1020-1032.	4.3	9
103	The effect of repeated remote ischemic postconditioning after an ischemic stroke (REPOST): A randomized controlled trial. <i>International Journal of Stroke</i> , 2023, 18, 296-303.	5.9	9
104	The very long-term risk and predictors of recurrent ischaemic events after a stroke at a young age: The FUTURE study. <i>European Stroke Journal</i> , 2016, 1, 337-345.	5.5	8
105	Higher Incidence of Ischemic Stroke in Young Women Than in Young Men. <i>Stroke</i> , 2020, 51, 3195-3196.	2.0	8
106	Relation between physical activity and cerebral small vessel disease: A nine-year prospective cohort study. <i>International Journal of Stroke</i> , 2021, 16, 962-971.	5.9	8
107	Pro-inflammatory Monocyte Phenotype During Acute Progression of Cerebral Small Vessel Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 639361.	2.4	8
108	Cohort study ON Neuroimaging, Etiology and Cognitive consequences of Transient neurological attacks (CONNECT): study rationale and protocol. <i>BMC Neurology</i> , 2015, 15, 36.	1.8	7

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109	Clinical application of Half Fourier Acquisition Single Shot Turbo Spin Echo (HASTE) imaging accelerated by simultaneous multi-slice acquisition. <i>European Journal of Radiology</i> , 2018, 98, 200-206.	2.6	7
110	Global Outcome Assessment Life-long after stroke in young adults initiative—the GOAL initiative: study protocol and rationale of a multicentre retrospective individual patient data meta-analysis. <i>BMJ Open</i> , 2019, 9, e031144.	1.9	7
111	Impact of the lockdown on acute stroke treatments during the first surge of the COVID-19 outbreak in the Netherlands. <i>BMC Neurology</i> , 2022, 22, 22.	1.8	5
112	Circle of Willis Collateral Flow in Carotid Artery Occlusion Is Depicted by 4D-CTA. <i>World Neurosurgery</i> , 2018, 114, 421-426.e1.	1.3	4
113	Long-term mortality in young patients with spontaneous intracerebral haemorrhage: Predictors and causes of death. <i>European Stroke Journal</i> , 2021, 6, 185-193.	5.5	4
114	Assessing cortical cerebral microinfarcts on iron-sensitive MRI in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3391-3399.	4.3	4
115	Risk of Nursing Home Admission in Cerebral Small Vessel Disease. <i>Stroke</i> , 2018, 49, 2659-2665.	2.0	3
116	Differences in cerebral small vessel disease magnetic resonance imaging markers between lacunar stroke and non-lobar intracerebral hemorrhage. <i>European Stroke Journal</i> , 2021, 6, 239698732110317.	5.5	3
117	CT perfusion hypervolemia: brain ischemia or stroke mimic?. <i>Neuroradiology</i> , 2019, 61, 361-363.	2.2	2
118	Brain atrophy and strategic lesion location increases risk of parkinsonism in cerebral small vessel disease. <i>Parkinsonism and Related Disorders</i> , 2019, 61, 94-100.	2.2	2
119	Vascular reserve in brain resilience: pipes or perfusion?. <i>Brain</i> , 2020, 143, 390-392.	7.6	2
120	Prevalence, risk factors, and long-term outcomes of cerebral ischemia in hospitalized COVID-19 patients – study rationale and protocol of the CORONIS study: A multicentre prospective cohort study. <i>European Stroke Journal</i> , 0, , 239698732210925.	5.5	2
121	Neuroimaging Parameters Are Not Associated With Chronic Post-stroke Fatigue in Young Stroke Patients. <i>Frontiers in Neurology</i> , 2022, 13, 831357.	2.4	2
122	The Hyperintense study: Assessing the effects of induced blood pressure increase and decrease on MRI markers of cerebral small vessel disease: Study rationale and protocol. <i>European Stroke Journal</i> , 2022, 7, 331-338.	5.5	2
123	Waxing and waning of white matter hyperintensities. <i>Neurology</i> , 2017, 89, 984-985.	1.1	1
124	Letter by Rutten-Jacobs and de Leeuw Regarding Article, “Long-Term Mortality After First-Ever and Recurrent Stroke in Young Adults”. <i>Stroke</i> , 2014, 45, e301.	2.0	0
125	[P4394]: ASSOCIATIONS OF PLASMA AMYLOID BETA LEVELS WITH SEVERITY AND PROGRESSION OF CEREBRAL SMALL VESSEL DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1479.	0.8	0