

# Xinyi Leng

## List of Publications by Year in descending order

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91  
papers

1,881  
citations

279798

23  
h-index

315739

38  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual antiplatelet therapy in stroke and ICAS. <i>Neurology</i> , 2015, 85, 1154-1162.	1.1	158
2	Early Dual Versus Mono Antiplatelet Therapy for Acute Non-Cardioembolic Ischemic Stroke or Transient Ischemic Attack. <i>Circulation</i> , 2013, 128, 1656-1666.	1.6	118
3	Impact of collaterals on the efficacy and safety of endovascular treatment in acute ischaemic stroke: a systematic review and meta-analysis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 537-544.	1.9	106
4	Guidelines for evaluation and management of cerebral collateral circulation in ischaemic stroke 2017. <i>Stroke and Vascular Neurology</i> , 2018, 3, 117-130.	3.3	85
5	Evaluating Intracranial Atherosclerosis Rather Than Intracranial Stenosis. <i>Stroke</i> , 2014, 45, 645-651.	2.0	84
6	Impact of Collateral Status on Successful Revascularization in Endovascular Treatment: A Systematic Review and Meta-Analysis. <i>Cerebrovascular Diseases</i> , 2016, 41, 27-34.	1.7	84
7	Current Status of Endovascular Treatment for Acute Large Vessel Occlusion in China. <i>Stroke</i> , 2021, 52, 1203-1212.	2.0	71
8	Hemodynamics and stroke risk in intracranial atherosclerotic disease. <i>Annals of Neurology</i> , 2019, 85, 752-764.	5.3	65
9	Good collateral circulation predicts favorable outcomes in intravenous thrombolysis: a systematic review and meta-analysis. <i>European Journal of Neurology</i> , 2016, 23, 1738-1749.	3.3	57
10	Computational Fluid Dynamics Modeling of Symptomatic Intracranial Atherosclerosis May Predict Risk of Stroke Recurrence. <i>PLoS ONE</i> , 2014, 9, e97531.	2.5	54
11	Stroke Mechanisms in Symptomatic Intracranial Atherosclerotic Disease. <i>Stroke</i> , 2019, 50, 2692-2699.	2.0	54
12	Post-Stroke Cognitive Impairment: Epidemiology, Risk Factors, and Management. <i>Journal of Alzheimer's Disease</i> , 2022, 86, 983-999.	2.6	49
13	Functional assessment of cerebral artery stenosis: A pilot study based on computational fluid dynamics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2567-2576.	4.3	42
14	Sustaining cerebral perfusion in intracranial atherosclerotic stenosis: The roles of antegrade residual flow and leptomeningeal collateral flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 126-134.	4.3	42
15	Risk factors for intracranial atherosclerosis: A systematic review and meta-analysis. <i>Atherosclerosis</i> , 2019, 281, 71-77.	0.8	37
16	Modifiable risk factors for carotid atherosclerosis: a meta-analysis and systematic review. <i>Annals of Translational Medicine</i> , 2019, 7, 632-632.	1.7	37
17	Characteristics of Wall Shear Stress and Pressure of Intracranial Atherosclerosis Analyzed by a Computational Fluid Dynamics Model: A Pilot Study. <i>Frontiers in Neurology</i> , 2019, 10, 1372.	2.4	36
18	Comparison of Newtonian and Non-newtonian Fluid Models in Blood Flow Simulation in Patients With Intracranial Arterial Stenosis. <i>Frontiers in Physiology</i> , 2021, 12, 718540.	2.8	33

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19	Fractional Flow Assessment for the Evaluation of Intracranial Atherosclerosis: A Feasibility Study. <i>Interventional Neurology</i> , 2016, 5, 65-75.	1.8	31
20	Early Identification of High-Risk TIA or Minor Stroke Using Artificial Neural Network. <i>Frontiers in Neurology</i> , 2019, 10, 171.	2.4	31
21	State-of-the-Art Computational Models of Circle of Willis With Physiological Applications: A Review. <i>IEEE Access</i> , 2020, 8, 156261-156273.	4.2	30
22	Regional High Wall Shear Stress Associated With Stenosis Regression in Symptomatic Intracranial Atherosclerotic Disease. <i>Stroke</i> , 2020, 51, 3064-3073.	2.0	29
23	Magnetic Resonance Angiography Signal Intensity as a Marker of Hemodynamic Impairment in Intracranial Arterial Stenosis. <i>PLoS ONE</i> , 2013, 8, e80124.	2.5	27
24	Intracranial arterial stenosis in Caucasian versus Chinese patients with TIA and minor stroke: two contemporaneous cohorts and a systematic review. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 590-597.	1.9	26
25	Correlation of Large Artery Intracranial Occlusive Disease With Carotid Intima-Media Thickness and Presence of Carotid Plaque. <i>Stroke</i> , 2013, 44, 68-72.	2.0	25
26	Translesional pressure gradient and leptomeningeal collateral status in symptomatic middle cerebral artery stenosis. <i>European Journal of Neurology</i> , 2018, 25, 404-410.	3.3	25
27	Association Between Metabolic Syndrome and Carotid Atherosclerosis: A Community-Based Study in Hong Kong. <i>Metabolic Syndrome and Related Disorders</i> , 2013, 11, 109-114.	1.3	21
28	Interobserver Reproducibility of Signal Intensity Ratio on Magnetic Resonance Angiography for Hemodynamic Impact of Intracranial Atherosclerosis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2013, 22, e615-e619.	1.6	20
29	Asia Pacific Stroke Conference 2017. Abstracts of the Annual Conference of the Asia Pacific Stroke Organization (APSO) Combined with Stroke Society of Australasia. Nanjing, China, October 26-28, 2017: Abstracts. <i>Cerebrovascular Diseases</i> , 2017, 44, 1-52.	1.7	18
30	Estimating current and long-term risks of coronary artery in silico by fractional flow reserve, wall shear stress and low-density lipoprotein filtration rate. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 025006.	1.2	18
31	Signal Intensity Ratio as a Novel Measure of Hemodynamic Significance for Intracranial Atherosclerosis. <i>International Journal of Stroke</i> , 2013, 8, E46-E46.	5.9	17
32	Diminished Signal Intensities Distal to Intracranial Arterial Stenosis on Time-of-Flight MR Angiography Might Indicate Delayed Cerebral Perfusion. <i>Cerebrovascular Diseases</i> , 2016, 42, 232-239.	1.7	17
33	Adverse Outcomes Associated With Higher Mean Blood Pressure and Greater Blood Pressure Variability Immediately After Successful Embolectomy in Those With Acute Ischemic Stroke, and the Influence of Pretreatment Collateral Circulation Status. <i>Journal of the American Heart Association</i> , 2021, 10, e019350.	3.7	17
34	Intracranial atherosclerosis: From anatomy to pathophysiology. <i>International Journal of Stroke</i> , 2017, 12, 236-245.	5.9	16
35	Cortical Microinfarcts Associated With Worse Outcomes in Patients With Acute Ischemic Stroke Receiving Endovascular Treatment. <i>Stroke</i> , 2020, 51, 2742-2751.	2.0	16
36	Identifying Biomarkers Associated with Venous Infarction in Acute/Subacute Cerebral Venous Thrombosis. , 2021, 12, 93.		15

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37	Hemodynamic Impact of Systolic Blood Pressure and Hematocrit Calculated by Computational Fluid Dynamics in Patients with Intracranial Atherosclerosis. <i>Journal of Neuroimaging</i> , 2016, 26, 331-338.	2.0	14
38	Translesional Pressure Gradient Alters Relationship Between Blood Pressure and Recurrent Stroke in Intracranial Stenosis. <i>Stroke</i> , 2020, 51, 1862-1864.	2.0	13
39	Endovascular treatment with or without intravenous alteplase for acute ischaemic stroke due to basilar artery occlusion. <i>Stroke and Vascular Neurology</i> , 2022, 7, 190-199.	3.3	13
40	Computational fluid dynamics of computed tomography angiography to detect the hemodynamic impact of intracranial atherosclerotic stenosis. <i>Neurovascular Imaging</i> , 2015, 1, .	2.4	12
41	Effect of microcirculatory resistance on coronary blood flow and instantaneous wave-free ratio: A computational study. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105632.	4.7	12
42	Noninvasive fractional flow in intracranial atherosclerotic stenosis: Reproducibility, limitations, and perspectives. <i>Journal of the Neurological Sciences</i> , 2017, 381, 150-152.	0.6	11
43	Hemodynamic Significance of Middle Cerebral Artery Stenosis Associated With the Severity of Ipsilateral White Matter Changes. <i>Frontiers in Neurology</i> , 2020, 11, 214.	2.4	11
44	Inclusion in the World Health Organization Model List of Essential Medicines of Non-Vitamin K Anticoagulants for Treatment of Non-Valvular Atrial Fibrillation: A Step Towards Reducing the Burden of Cardiovascular Morbidity and Mortality. <i>Global Heart</i> , 2020, 15, 52.	2.3	11
45	Antiplatelet therapy after stroke: should it differ in the acute and chronic phase after stroke. <i>Current Opinion in Neurology</i> , 2018, 31, 14-22.	3.6	10
46	Impact of Side Branches on the Computation of Fractional Flow in Intracranial Arterial Stenosis Using the Computational Fluid Dynamics Method. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 44-52.	1.6	10
47	Cortical Microinfarcts in Patients with Middle Cerebral Artery Stenosis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 1760-1765.	1.6	8
48	Collaterals 2016: Translating the collaterome around the globe. <i>International Journal of Stroke</i> , 2017, 12, 338-342.	5.9	8
49	Plaque morphology in acute symptomatic intracranial atherosclerotic disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 370-376.	1.9	8
50	Prolonged Perfusion Predicts Recurrent Ischemic Stroke but not Transient Ischemic Attack in Patients with Symptomatic Intracranial Stenosis. <i>Current Neurovascular Research</i> , 2017, 14, 149-157.	1.1	8
51	Bacterial Signatures of Cerebral Thrombi in Large Vessel Occlusion Stroke. <i>MBio</i> , 2022, 13, .	4.1	8
52	Collateral circulation alters downstream hemodynamic stress caused by intracranial atherosclerotic stenosis. <i>Neurological Research</i> , 2017, 39, 498-503.	1.3	7
53	Evolving ischemic stroke subtypes in 15 years: A hospital-based observational study. <i>International Journal of Stroke</i> , 2022, 17, 444-454.	5.9	7
54	Stability of unruptured intracranial aneurysms in the anterior circulation: nomogram models for risk assessment. <i>Journal of Neurosurgery</i> , 2022, 137, 675-684.	1.6	7

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55	A Data-Driven Approach to Transfer Function Analysis for Superior Discriminative Power: Optimized Assessment of Dynamic Cerebral Autoregulation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 909-921.	6.3	6
56	Fasting glucose and HbA1c levels as risk factors for the presence of intracranial atherosclerotic stenosis. <i>Annals of Translational Medicine</i> , 2019, 7, 804-804.	1.7	6
57	NOACs Added to WHO's Essential Medicines List: Recommendations for Future Policy Actions. <i>Global Heart</i> , 2020, 15, 67.	2.3	6
58	Small vessel disease burden may not portend unfavorable outcome after thrombectomy for acute large vessel occlusion. <i>European Radiology</i> , 2022, 32, 7824-7832.	4.5	6
59	Collateral Flow in Intracranial Atherosclerotic Disease. <i>Translational Stroke Research</i> , 2023, 14, 38-52.	4.2	6
60	Elevated Neutrophil to Lymphocyte Ratio Associated With Increased Risk of Recurrent Vascular Events in Older Minor Stroke or TIA Patients. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 646961.	3.4	5
61	High-Degree Middle Cerebral Artery Stenosis. <i>Clinical Neuroradiology</i> , 2021, 31, 51-59.	1.9	4
62	Intraluminal Thrombus and Outcomes of Patients With Acute Large Vessel Occlusive Stroke Undergoing Endovascular Treatment. <i>Stroke</i> , 2021, 52, 1473-1477.	2.0	4
63	Validation of external and internal exposome of the findings associated to cerebral small vessel disease: A Mendelian randomization study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1078-1090.	4.3	4
64	Cerebral perfusion difference between hemispheres with symptomatic and asymptomatic intracranial arterial stenosis. <i>International Journal of Stroke</i> , 2017, 12, NP19-NP20.	5.9	3
65	A prediction of hematoma expansion in hemorrhagic patients using a novel dual-modal machine learning strategy. <i>Physiological Measurement</i> , 2021, 42, 074005.	2.1	3
66	The contemporary management of intracranial atherosclerotic disease. <i>Expert Review of Neurotherapeutics</i> , 2016, 16, 701-709.	2.8	2
67	Intracranial Atherosclerosis. , 2016, , 205-232.		2
68	Editorial: Intracranial Atherosclerotic Disease: Epidemiology, Imaging, Treatment and Prognosis. <i>Frontiers in Neurology</i> , 2021, 12, 729377.	2.4	2
69	Abstract 158: Magnetic Resonance Angiography Signal Intensity as a Marker of Hemodynamic Impairment in Intracranial Arterial Stenosis. <i>Stroke</i> , 2013, 44, .	2.0	2
70	Genome sequencing reveals the role of rare genomic variants in Chinese patients with symptomatic intracranial atherosclerotic disease. <i>Stroke and Vascular Neurology</i> , 2021, , svn-2021-001157.	3.3	2
71	Collateral status as the fifth dimension: warping the time clock for endovascular treatment in acute ischaemic stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 899-899.	1.9	1
72	Response by Feng et al to Letter Regarding Article, "Stroke Mechanisms in Symptomatic Intracranial Atherosclerotic Disease: Classification and Clinical Implications" <i>Stroke</i> , 2019, 50, e437.	2.0	1

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73	Screening for chronic conditions with reproductive factors using a machine learning based approach. <i>Scientific Reports</i> , 2020, 10, 2848.	3.3	1
74	Intracranial Atherosclerosis. , 2014, , 1-30.		1
75	Abstract WP169: Symptomatic Intracranial Atherosclerotic Stenosis: The Associations Between Cerebral Hemodynamics and the Stroke Mechanisms. <i>Stroke</i> , 2020, 51, .	2.0	1
76	Response to Letter Regarding Article, "Early Dual Versus Mono Antiplatelet Therapy for Acute Non-Cardioembolic Ischemic Stroke or Transient Ischemic Attack: An Updated Systematic Review and Meta-Analysis" <i>Circulation</i> , 2014, 130, e74.	1.6	0
77	Dataset on blood flow and instantaneous wave-free ratio in normal and stenosed coronary arteries. <i>Data in Brief</i> , 2020, 32, 106011.	1.0	0
78	Acute Anticoagulant Therapy for the Treatment of Acute Ischaemic Stroke and Transient Ischaemic Attack. , 2020, , 179-198.		0
79	Response by Lan et al to Letter Regarding Article, "Regional High Wall Shear Stress Associated With Stenosis Regression in Symptomatic Intracranial Atherosclerotic Disease" <i>Stroke</i> , 2021, 52, e80-e81.	2.0	0
80	Abstract P549: Total Small Vessel Disease Burden Not Associated With Functional Independence After Endovascular Treatment in Acute Ischemic Stroke Patients. <i>Stroke</i> , 2021, 52, .	2.0	0
81	Abstract P572: Cerebral Hemodynamics Underlying Artery-To-Artery Embolism in Symptomatic Intracranial Atherosclerotic Disease. <i>Stroke</i> , 2021, 52, .	2.0	0
82	Abstract P678: Elevated Neutrophil to Lymphocyte Ratio Associated With Increased Risk of Recurrent Vascular Events in Older Minor Stroke or TIA Patients. <i>Stroke</i> , 2021, 52, .	2.0	0
83	Combined Approach of QSAR and Docking Studies for the Design of Local Anaesthetic Agents. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2017, 20, 272-276.	1.1	0
84	Abstract TP127: Morphology of Acute Symptomatic Intracranial Atherosclerotic Plaques. <i>Stroke</i> , 2018, 49, .	2.0	0
85	Abstract 86: Morphological Evolution of Symptomatic Intracranial Atherosclerotic Plaques: a 10-year Longitudinal Study by 3-Dimensional Rotational Angiography. <i>Stroke</i> , 2018, 49, .	2.0	0
86	Abstract TP414: Early and Delayed Onset Poststroke Depression. <i>Stroke</i> , 2018, 49, .	2.0	0
87	Abstract 81: Translesional Pressure Gradient Alters the Relationship Between Blood Pressure and Stroke Recurrence in Symptomatic Intracranial Atherosclerotic Disease. <i>Stroke</i> , 2020, 51, .	2.0	0
88	Abstract 82: Differences Between Caucasians and Asians in Intracranial Arterial Stenosis Among TIA and Minor Stroke Patients: Comparisons of Two Contemporary Cohorts. <i>Stroke</i> , 2020, 51, .	2.0	0
89	Intracranial artery calcification to screen patients at high risk of recurrent stroke: abridged secondary publication. <i>Hong Kong Medical Journal</i> , 2020, 26 Suppl 7, 42-44.	0.1	0
90	Abstract W P109: CT Angiography of Symptomatic Intracranial Atherosclerosis: Anatomical Predictors of Fractional Flow. <i>Stroke</i> , 2014, 45, .	2.0	0

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91	Abstract WP123: Changes of Signal Intensities Across Intracranial Arterial Stenosis on Magnetic Resonance Angiography Are Associated With Ipsilateral Cerebral Perfusion.. Stroke, 2016, 47, .	2.0	0