

Bastian Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

4,296
citations

159585

30
h-index

128289

60
g-index

135
all docs

135
docs citations

135
times ranked

5034
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI-Guided Thrombolysis for Stroke with Unknown Time of Onset. <i>New England Journal of Medicine</i> , 2018, 379, 611-622.	27.0	912
2	DWI-FLAIR mismatch for the identification of patients with acute ischaemic stroke within 4-5 h of symptom onset (PRE-FLAIR): a multicentre observational study. <i>Lancet Neurology</i> , The, 2011, 10, 978-986.	10.2	468
3	Influence of Stroke Infarct Location on Functional Outcome Measured by the Modified Rankin Scale. <i>Stroke</i> , 2014, 45, 1695-1702.	2.0	193
4	A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial to Test Efficacy and Safety of Magnetic Resonance Imaging-Based Thrombolysis in Wake-up Stroke (WAKE-UP). <i>International Journal of Stroke</i> , 2014, 9, 829-836.	5.9	130
5	Multi-organ assessment in mainly non-hospitalized individuals after SARS-CoV-2 infection: The Hamburg City Health Study COVID programme. <i>European Heart Journal</i> , 2022, 43, 1124-1137.	2.2	111
6	Intravenous alteplase for stroke with unknown time of onset guided by advanced imaging: systematic review and meta-analysis of individual patient data. <i>Lancet</i> , The, 2020, 396, 1574-1584.	13.7	107
7	Parietofrontal motor pathways and their association with motor function after stroke. <i>Brain</i> , 2015, 138, 1949-1960.	7.6	94
8	Modeling of Large-Scale Functional Brain Networks Based on Structural Connectivity from DTI: Comparison with EEG Derived Phase Coupling Networks and Evaluation of Alternative Methods along the Modeling Path. <i>PLoS Computational Biology</i> , 2016, 12, e1005025.	3.2	90
9	Voxel-based lesion-symptom mapping of stroke lesions underlying somatosensory deficits. <i>NeuroImage: Clinical</i> , 2016, 10, 257-266.	2.7	88
10	Overtraining following intensified training with normal muscle glycogen. <i>Medicine and Science in Sports and Exercise</i> , 1995, 27, 1063-1070.	0.4	84
11	Somatosensory Deficits After Ischemic Stroke. <i>Stroke</i> , 2019, 50, 1116-1123.	2.0	78
12	Characterization of White Matter Hyperintensities in Large-Scale MRI-Studies. <i>Frontiers in Neurology</i> , 2019, 10, 238.	2.4	71
13	Functional Outcome of Intravenous Thrombolysis in Patients With Lacunar Infarcts in the WAKE-UP Trial. <i>JAMA Neurology</i> , 2019, 76, 641.	9.0	63
14	ANTONIA Perfusion and Stroke. <i>Methods of Information in Medicine</i> , 2014, 53, 469-481.	1.2	62
15	Enhanced Effective Connectivity Between Primary Motor Cortex and Intraparietal Sulcus in Well-Recovered Stroke Patients. <i>Stroke</i> , 2016, 47, 482-489.	2.0	61
16	Altered intrahemispheric structural connectivity in Gilles de la Tourette syndrome. <i>NeuroImage: Clinical</i> , 2014, 4, 174-181.	2.7	60
17	Hyperintense Vessels on Acute Stroke Fluid-Attenuated Inversion Recovery Imaging. <i>Stroke</i> , 2012, 43, 2957-2961.	2.0	59
18	Cortico-Cerebellar Structural Connectivity Is Related to Residual Motor Output in Chronic Stroke. <i>Cerebral Cortex</i> , 2017, 27, bhv251.	2.9	56

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19	Stroke With Unknown Time of Symptom Onset. <i>Stroke</i> , 2017, 48, 770-773.	2.0	51
20	Pretreatment Diffusion-Weighted Imaging Lesion Volume Predicts Favorable Outcome After Intravenous Thrombolysis With Tissue-Type Plasminogen Activator in Acute Ischemic Stroke. <i>Stroke</i> , 2011, 42, 1251-1254.	2.0	50
21	Quantitative Measurements of Relative Fluid-Attenuated Inversion Recovery (FLAIR) Signal Intensities in Acute Stroke for the Prediction of Time from Symptom Onset. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 76-84.	4.3	46
22	Structural Plasticity of Remote Cortical Brain Regions is Determined by Connectivity to the Primary Lesion in Subcortical Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1507-1514.	4.3	46
23	Comparison of 10 TTP and Tmax Estimation Techniques for MR Perfusion-Diffusion Mismatch Quantification in Acute Stroke. <i>American Journal of Neuroradiology</i> , 2013, 34, 1697-1703.	2.4	43
24	Low-Frequency Brain Oscillations Track Motor Recovery in Human Stroke. <i>Annals of Neurology</i> , 2019, 86, 853-865.	5.3	39
25	Multiclass Support Vector Machine-Based Lesion Mapping Predicts Functional Outcome in Ischemic Stroke Patients. <i>PLoS ONE</i> , 2015, 10, e0129569.	2.5	39
26	Cortical atrophy and transcallosal diaschisis following isolated subcortical stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 611-621.	4.3	38
27	Silent Brain Infarctions and Leukoaraiosis in Patients With Retinal Ischemia. <i>Stroke</i> , 2017, 48, 1392-1396.	2.0	37
28	Validity of Acute Stroke Lesion Volume Estimation by Diffusion-Weighted Imaging—Alberta Stroke Program Early Computed Tomographic Score Depends on Lesion Location in 496 Patients With Middle Cerebral Artery Stroke. <i>Stroke</i> , 2014, 45, 3583-3588.	2.0	36
29	Parietofrontal network upregulation after motor stroke. <i>NeuroImage: Clinical</i> , 2018, 18, 720-729.	2.7	36
30	Dynamics of brain perfusion and cognitive performance in revascularization of carotid artery stenosis. <i>NeuroImage: Clinical</i> , 2019, 22, 101779.	2.7	36
31	Visual and Region of Interest-Based Inter-Rater Agreement in the Assessment of the Diffusion-Weighted Imaging—Fluid-Attenuated Inversion Recovery Mismatch. <i>Stroke</i> , 2014, 45, 1170-1172.	2.0	33
32	Structural brain networks and functional motor outcome after stroke—a prospective cohort study. <i>Brain Communications</i> , 2020, 2, fcaa001.	3.3	33
33	Dynamics of Regional Distribution of Ischemic Lesions in Middle Cerebral Artery Trunk Occlusion Relates to Collateral Circulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 36-40.	4.3	30
34	Early infarct FLAIR hyperintensity is associated with increased hemorrhagic transformation after thrombolysis. <i>European Journal of Neurology</i> , 2013, 20, 281-285.	3.3	30
35	Stroke Lesion Segmentation in FLAIR MRI Datasets Using Customized Markov Random Fields. <i>Frontiers in Neurology</i> , 2019, 10, 541.	2.4	30
36	Mapping causal functional contributions derived from the clinical assessment of brain damage after stroke. <i>NeuroImage: Clinical</i> , 2015, 9, 83-94.	2.7	29

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37	Network Localisation of White Matter Damage in Cerebral Small Vessel Disease. <i>Scientific Reports</i> , 2020, 10, 9210.	3.3	28
38	Clinical Characteristics and Outcome of Patients With Hemorrhagic Transformation After Intravenous Thrombolysis in the WAKE-UP Trial. <i>Frontiers in Neurology</i> , 2020, 11, 957.	2.4	24
39	Different Mismatch Concepts for Magnetic Resonance Imaging-Guided Thrombolysis in Unknown Onset Stroke. <i>Annals of Neurology</i> , 2020, 87, 931-938.	5.3	24
40	Functional connectivity changes in cerebral small vessel disease - a systematic review of the resting-state MRI literature. <i>BMC Medicine</i> , 2021, 19, 103.	5.5	24
41	Older Age and Greater Carotid Intima-Media Thickness Predict Ischemic Events Associated with Carotid-Artery Stenting. <i>Cerebrovascular Diseases</i> , 2010, 30, 567-572.	1.7	23
42	Predictors of Periprocedural Brain Lesions Associated with Carotid Stenting. <i>Cerebrovascular Diseases</i> , 2012, 33, 30-36.	1.7	23
43	Reduced rich-club connectivity is related to disability in primary progressive MS. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2017, 4, e375.	6.0	23
44	Altered topology of large-scale structural brain networks in chronic stroke. <i>Brain Communications</i> , 2019, 1, fcz020.	3.3	21
45	Is There Full or Proportional Somatosensory Recovery in the Upper Limb After Stroke? Investigating Behavioral Outcome and Neural Correlates. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 691-700.	2.9	20
46	White matter integrity and structural brain network topology in cerebral small vessel disease: The Hamburg city health study. <i>Human Brain Mapping</i> , 2021, 42, 1406-1415.	3.6	20
47	Cerebral Microbleeds and Treatment Effect of Intravenous Thrombolysis in Acute Stroke. <i>Neurology</i> , 2022, 98, .	1.1	19
48	High-resolution myocardial perfusion imaging at 3ÅT: comparison to 1.5ÅT in healthy volunteers. <i>European Radiology</i> , 2007, 17, 1829-1835.	4.5	18
49	Functional network connectivity is altered in patients with upper limb somatosensory impairments in the acute phase post stroke: A cross-sectional study. <i>PLoS ONE</i> , 2018, 13, e0205693.	2.5	18
50	Quantitative Signal Intensity in Fluid-Attenuated Inversion Recovery and Treatment Effect in the WAKE-UP Trial. <i>Stroke</i> , 2020, 51, 209-215.	2.0	18
51	Linking cortical atrophy to white matter hyperintensities of presumed vascular origin. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1682-1691.	4.3	18
52	Effect of informed consent on patient characteristics in a stroke thrombolysis trial. <i>Neurology</i> , 2017, 89, 1400-1407.	1.1	17
53	Ischemic lesion water homeostasis after thrombectomy for large vessel occlusion stroke within the anterior circulation: The impact of age. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 45-52.	4.3	17
54	Carotid Plaque Surface Irregularity Predicts Cerebral Embolism during Carotid Artery Stenting. <i>Cerebrovascular Diseases</i> , 2011, 32, 163-169.	1.7	16

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55	The role of functional and structural interhemispheric auditory connectivity for language lateralization - A combined EEG and DTI study. <i>Scientific Reports</i> , 2018, 8, 15428.	3.3	16
56	Higher white matter hyperintensity lesion load is associated with reduced long-range functional connectivity. <i>Brain Communications</i> , 2020, 2, fcaa111.	3.3	16
57	Effect of Balloon Guide Catheter Utilization on the Incidence of Sub-angiographic Peripheral Emboli on High-Resolution DWI After Thrombectomy: A Prospective Observational Study. <i>Frontiers in Neurology</i> , 2020, 11, 386.	2.4	15
58	Fixel based analysis of white matter alterations in early stage cerebral small vessel disease. <i>Scientific Reports</i> , 2022, 12, 1581.	3.3	15
59	Premotor-motor excitability is altered in dopa-responsive dystonia. <i>Movement Disorders</i> , 2015, 30, 1705-1709.	3.9	14
60	Cortical thickness and cognitive performance in asymptomatic unilateral carotid artery stenosis. <i>BMC Cardiovascular Disorders</i> , 2019, 19, 154.	1.7	14
61	Preserved structural connectivity mediates the clinical effect of thrombolysis in patients with anterior-circulation stroke. <i>Nature Communications</i> , 2021, 12, 2590.	12.8	14
62	Prefrontal-Premotor Pathways and Motor Output in Well-Recovered Stroke Patients. <i>Frontiers in Neurology</i> , 2019, 10, 105.	2.4	13
63	Normalization of reduced functional connectivity after revascularization of asymptomatic carotid stenosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1838-1848.	4.3	13
64	Association of Extrapyramidal Tracts™ Integrity With Performance in Fine Motor Skills After Stroke. <i>Stroke</i> , 2018, 49, 2928-2932.	2.0	12
65	Clinical Outcome of Isolated Cerebellar Stroke—A Prospective Observational Study. <i>Frontiers in Neurology</i> , 2018, 9, 580.	2.4	12
66	Evolution of brain activation after stroke in a constant-effort versus constant-output motor task. <i>Restorative Neurology and Neuroscience</i> , 2015, 33, 845-64.	0.7	12
67	Sensitivity of Hyperdense Basilar Artery Sign on Non-Enhanced Computed Tomography. <i>PLoS ONE</i> , 2015, 10, e0141096.	2.5	11
68	Free-water diffusion MRI detects structural alterations surrounding white matter hyperintensities in the early stage of cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, , 0271678X2210935.	4.3	11
69	Impact of Severe Extracranial ICA Stenosis on MRI Perfusion and Diffusion Parameters in Acute Ischemic Stroke. <i>Frontiers in Neurology</i> , 2014, 5, 254.	2.4	10
70	Stroke subtype classification by geometrical descriptors of lesion shape. <i>PLoS ONE</i> , 2017, 12, e0185063.	2.5	10
71	Association of lipid levels with motor and cognitive function and decline in advanced Parkinson's disease in the Mark-PD study. <i>Parkinsonism and Related Disorders</i> , 2021, 85, 5-10.	2.2	10
72	Quantitative Lesion Water Uptake as Stroke Imaging Biomarker: A Tool for Treatment Selection in the Extended Time Window?. <i>Stroke</i> , 2022, 53, 201-209.	2.0	10

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73	Sub-angiographic peripheral emboli in high resolution DWI after endovascular recanalization. <i>Journal of Neurology</i> , 2020, 267, 1401-1406.	3.6	10
74	OUP accepted manuscript. <i>Cerebral Cortex</i> , 2022, , .	2.9	10
75	Stroke Lesion Volumes and Outcome Are Not Different in Hemispheric Stroke Side Treated With Intravenous Thrombolysis Based on Magnetic Resonance Imaging Criteria. <i>Stroke</i> , 2015, 46, 1004-1008.	2.0	9
76	Altered topology of structural brain networks in patients with Gilles de la Tourette syndrome. <i>Scientific Reports</i> , 2017, 7, 10606.	3.3	9
77	Treatment-Relevant Findings in Transesophageal Echocardiography After Stroke: A Prospective Multicenter Cohort Study. <i>Stroke</i> , 2022, 53, 177-184.	2.0	9
78	Outcome of MRI-based intravenous thrombolysis in carotid-T occlusion. <i>Journal of Neurology</i> , 2012, 259, 2141-2146.	3.6	8
79	Automated DWI analysis can identify patients within the thrombolysis time window of 4.5 hours. <i>Neurology</i> , 2018, 90, e1570-e1577.	1.1	8
80	White matter degeneration revealed by fiber-specific analysis relates to recovery of hand function after stroke. <i>Human Brain Mapping</i> , 2021, 42, 5423-5432.	3.6	8
81	Association of Age and Structural Brain Changes With Functional Connectivity and Executive Function in a Middle-Aged to Older Population-Based Cohort. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 782738.	3.4	8
82	Association of COVID-19 with Intracranial Hemorrhage during Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome: A 10-Year Retrospective Observational Study. <i>Journal of Clinical Medicine</i> , 2022, 11, 28.	2.4	8
83	Technical considerations of a game-theoretical approach for lesion symptom mapping. <i>BMC Neuroscience</i> , 2016, 17, 40.	1.9	7
84	Safety and efficacy of intravenous thrombolysis in stroke patients on prior antiplatelet therapy in the WAKE-UP trial. <i>Neurological Research and Practice</i> , 2020, 2, 40.	2.0	7
85	Equalization of Brain State Occupancy Accompanies Cognitive Impairment in Cerebral Small Vessel Disease. <i>Biological Psychiatry</i> , 2022, 92, 592-602.	1.3	7
86	Extent of FLAIR Hyperintense Vessels May Modify Treatment Effect of Thrombolysis: A Post hoc Analysis of the WAKE-UP Trial. <i>Frontiers in Neurology</i> , 2020, 11, 623881.	2.4	6
87	Impact of intravenous alteplase on sub-angiographic emboli in high-resolution diffusion-weighted imaging following successful thrombectomy. <i>European Radiology</i> , 2021, 31, 8228-8235.	4.5	6
88	Influence of stroke infarct location on quality of life assessed in a multivariate lesion-symptom mapping study. <i>Scientific Reports</i> , 2021, 11, 13490.	3.3	6
89	Grey and white matter network disruption is associated with sensory deficits after stroke. <i>NeuroImage: Clinical</i> , 2021, 31, 102698.	2.7	6
90	Clinical characteristics of unknown symptom onset stroke patients with and without diffusion-weighted imaging and fluid-attenuated inversion recovery mismatch. <i>International Journal of Stroke</i> , 2018, 13, 66-73.	5.9	5

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91	Game-theoretical mapping of fundamental brain functions based on lesion deficits in acute stroke. <i>Brain Communications</i> , 2021, 3, fcab204.	3.3	5
92	Effect of intravenous alteplase on post-stroke depression in the WAKE UP trial. <i>European Journal of Neurology</i> , 2021, 28, 2017-2025.	3.3	5
93	Estimating nocturnal stroke onset times by magnetic resonance imaging in the WAKE-UP trial. <i>International Journal of Stroke</i> , 2022, 17, 323-330.	5.9	5
94	The Extent of Perfusion Deficit Does Not Relate to the Visibility of Acute Ischemic Lesions on Fluid-Attenuated Inversion Recovery Imaging. <i>Journal of Neuroimaging</i> , 2013, 23, 215-218.	2.0	4
95	Hypointense Vessels Detected by Susceptibility-Weighted Imaging Identifies Tissue at Risk of Infarction in Anterior Circulation Stroke. <i>Journal of Neuroimaging</i> , 2017, 27, 414-420.	2.0	4
96	Polypharmacy, functional outcome and treatment effect of intravenous alteplase for acute ischaemic stroke. <i>European Journal of Neurology</i> , 2021, 28, 532-539.	3.3	4
97	Diffusion-Weighted Imaging and Fluid-Attenuated Inversion Recovery Quantification to Predict Diffusion-Weighted Imaging-Fluid-Attenuated Inversion Recovery Mismatch Status in Ischemic Stroke With Unknown Onset. <i>Stroke</i> , 2022, 53, 1665-1673.	2.0	4
98	Brain network topology early after stroke relates to recovery. <i>Brain Communications</i> , 2022, 4, fcac049.	3.3	4
99	Beyond cost function masking: RPCA-based non-linear registration in the context of VLSM. , 2016, , .		3
100	White Matter Microstructure of the Human Mirror Neuron System is Related to Symptom Severity in Adults with Autism. <i>Journal of Autism and Developmental Disorders</i> , 2018, 48, 417-429.	2.7	3
101	Total mismatch in diffusion negative patients in the WAKE-UP trial. <i>International Journal of Stroke</i> , 2019, 14, NP20-NP22.	5.9	3
102	Post-hoc Analysis of Outcome of Intravenous Thrombolysis in Infarcts of Infratentorial Localization in the WAKE-UP Trial. <i>Frontiers in Neurology</i> , 2019, 10, 983.	2.4	3
103	Clinical Characteristics and Outcome of Patients with Lacunar Infarcts and Concurrent Embolic Ischemic Lesions. <i>Clinical Neuroradiology</i> , 2020, 30, 511-516.	1.9	3
104	Hyperintense acute reperfusion marker associated with hemorrhagic transformation in the WAKE-UP trial. <i>European Stroke Journal</i> , 2021, 6, 128-133.	5.5	3
105	Reversible Edema in the Penumbra Correlates With Severity of Hypoperfusion. <i>Stroke</i> , 2021, 52, 2338-2346.	2.0	3
106	Corticospinal Tract Microstructure Correlates With Beta Oscillatory Activity in the Primary Motor Cortex After Stroke. <i>Stroke</i> , 2021, 52, 3839-3847.	2.0	3
107	Serious Adverse Events and Their Impact on Functional Outcome in Acute Ischemic Stroke in the WAKE-UP Trial. <i>Stroke</i> , 2021, 52, 3768-3776.	2.0	3
108	Comprehensive Evaluation of Cerebral Hemodynamics and Oxygen Metabolism in Revascularization of Asymptomatic High-Grade Carotid Stenosis. <i>Clinical Neuroradiology</i> , 2022, 32, 163-173.	1.9	3

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109	Association of White Blood Cell Count With Clinical Outcome Independent of Treatment With Alteplase in Acute Ischemic Stroke. <i>Frontiers in Neurology</i> , 0, 13, .	2.4	3
110	Homogeneous application of imaging criteria in a multicenter trial supported by investigator training: A report from the WAKE-UP study. <i>European Journal of Radiology</i> , 2018, 104, 115-119.	2.6	2
111	Impact of Lesion Load Thresholds on Alberta Stroke Program Early Computed Tomographic Score in Diffusion-Weighted Imaging. <i>Frontiers in Neurology</i> , 2018, 9, 273.	2.4	2
112	Symptoms and probabilistic anatomical mapping of lacunar infarcts. <i>Neurological Research and Practice</i> , 2020, 2, 21.	2.0	2
113	24-hour blood pressure variability and treatment effect of intravenous alteplase in acute ischaemic stroke. <i>European Stroke Journal</i> , 2021, 6, 168-175.	5.5	2
114	Association of stroke lesion shape with newly detected atrial fibrillation – Results from the MonDAFIS study. <i>European Stroke Journal</i> , 2022, 7, 230-237.	5.5	2
115	Intrinsic functional brain connectivity is resilient to chronic hypoperfusion caused by unilateral carotid artery stenosis. <i>NeuroImage: Clinical</i> , 2022, 34, 103014.	2.7	1
116	New remote cerebral microbleeds in acute ischemic stroke: an analysis of the randomized, placebo-controlled WAKE-UP trial. <i>Journal of Neurology</i> , 2022, 269, 5660-5667.	3.6	1
117	P109. Parietofrontal motor pathways and their association with motor function after stroke. <i>Clinical Neurophysiology</i> , 2015, 126, e102.	1.5	0
118	Automatic classification of cardioembolic and arteriosclerotic ischemic strokes from apparent diffusion coefficient datasets using texture analysis and deep learning. , 2017, , .		0
119	Exploring DeepMedic for the purpose of segmenting white matter hyperintensity lesions. , 2018, , .		0
120	Data Pooling and Sampling of Heterogeneous Image Data for White Matter Hyperintensity Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 86-94.	1.3	0
121	Akuttherapie. , 2020, , 131-147.		0
122	Intrakranielle Blutungen während extrakorporaler Membranoxygenierung zur Therapie schweren ARDS – eine retrospektive Kohortenstudie bei Patienten mit ohne COVID-19-assoziiertem ARDS. <i>Pneumologie</i> , 2022, , .	0.1	0