

# Andrew Bivard

## List of Publications by Year in descending order

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112  
papers

4,249  
citations

136950

32  
h-index

128289

60  
g-index

114  
all docs

114  
docs citations

114  
times ranked

4081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thrombolysis Guided by Perfusion Imaging up to 9 Hours after Onset of Stroke. <i>New England Journal of Medicine</i> , 2019, 380, 1795-1803.	27.0	653
2	Extending thrombolysis to 4.5-9 h and wake-up stroke using perfusion imaging: a systematic review and meta-analysis of individual patient data. <i>Lancet</i> , The, 2019, 394, 139-147.	13.7	321
3	Perfusion CT in Acute Stroke: A Comprehensive Analysis of Infarct and Penumbra. <i>Radiology</i> , 2013, 267, 543-550.	7.3	239
4	Perfusion computer tomography: imaging and clinical validation in acute ischaemic stroke. <i>Brain</i> , 2011, 134, 3408-3416.	7.6	149
5	Automated CT perfusion imaging for acute ischemic stroke. <i>Neurology</i> , 2019, 93, 888-898.	1.1	133
6	Whole-Brain CT Perfusion to Quantify Acute Ischemic Penumbra and Core. <i>Radiology</i> , 2016, 279, 876-887.	7.3	124
7	Perfusion computed tomography to assist decision making for stroke thrombolysis. <i>Brain</i> , 2015, 138, 1919-1931.	7.6	118
8	Defining the Extent of Irreversible Brain Ischemia Using Perfusion Computed Tomography. <i>Cerebrovascular Diseases</i> , 2011, 31, 238-245.	1.7	110
9	The Basilar Artery on Computed Tomography Angiography Prognostic Score for Basilar Artery Occlusion. <i>Stroke</i> , 2017, 48, 631-637.	2.0	105
10	Review of Stroke Thrombolytics. <i>Journal of Stroke</i> , 2013, 15, 90.	3.2	90
11	Ischemic core thresholds change with time to reperfusion: A case control study. <i>Annals of Neurology</i> , 2017, 82, 995-1003.	5.3	89
12	Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials. <i>Stroke</i> , 2016, 47, 1389-1398.	2.0	88
13	Evaluation of hyperacute infarct volume using ASPECTS and brain CT perfusion core volume. <i>Neurology</i> , 2017, 88, 2248-2253.	1.1	81
14	Comparison of Computed Tomographic and Magnetic Resonance Perfusion Measurements in Acute Ischemic Stroke. <i>Stroke</i> , 2014, 45, 1727-1732.	2.0	73
15	Arterial Spin Labeling Versus Bolus-Tracking Perfusion in Hyperacute Stroke. <i>Stroke</i> , 2014, 45, 127-133.	2.0	72
16	Comparison of tenecteplase with alteplase for the early treatment of ischaemic stroke in the Melbourne Mobile Stroke Unit (TASTE-A): a phase 2, randomised, open-label trial. <i>Lancet Neurology</i> , The, 2022, 21, 520-527.	10.2	69
17	MIDAS (Modafinil in Debilitating Fatigue After Stroke). <i>Stroke</i> , 2017, 48, 1293-1298.	2.0	63
18	Tenecteplase in ischemic stroke offers improved recanalization. <i>Neurology</i> , 2017, 89, 62-67.	1.1	59

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19	Association of Collateral Status and Ischemic Core Growth in Patients With Acute Ischemic Stroke. <i>Neurology</i> , 2021, 96, e161-e170.	1.1	52
20	Artificial intelligence for decision support in acute stroke – current roles and potential. <i>Nature Reviews Neurology</i> , 2020, 16, 575-585.	10.1	47
21	Validating a Predictive Model of Acute Advanced Imaging Biomarkers in Ischemic Stroke. <i>Stroke</i> , 2017, 48, 645-650.	2.0	45
22	Correction for Delay and Dispersion Results in More Accurate Cerebral Blood Flow Ischemic Core Measurement in Acute Stroke. <i>Stroke</i> , 2018, 49, 924-930.	2.0	44
23	Growth Hormone Improves Cognitive Function After Experimental Stroke. <i>Stroke</i> , 2018, 49, 1257-1266.	2.0	44
24	The ischemic penumbra: From concept to reality. <i>International Journal of Stroke</i> , 2021, 16, 497-509.	5.9	44
25	Arterial Spin Labeling Identifies Tissue Salvage and Good Clinical Recovery After Acute Ischemic Stroke. <i>Journal of Neuroimaging</i> , 2013, 23, 391-396.	2.0	43
26	Intraarterial Versus Intravenous Tirofiban as an Adjunct to Endovascular Thrombectomy for Acute Ischemic Stroke. <i>Stroke</i> , 2020, 51, 2925-2933.	2.0	43
27	Perfusion Patterns of Ischemic Stroke on Computed Tomography Perfusion. <i>Journal of Stroke</i> , 2013, 15, 164.	3.2	42
28	Delay of late-venous phase cortical vein filling in acute ischemic stroke patients: Associations with collateral status. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 671-682.	4.3	40
29	Transient Ischemic Attack Results in Delayed Brain Atrophy and Cognitive Decline. <i>Stroke</i> , 2018, 49, 384-390.	2.0	38
30	Collateral response modulates the time-penumbra relationship in proximal arterial occlusions. <i>Neurology</i> , 2018, 90, e316-e322.	1.1	37
31	Impact of Computed Tomography Perfusion Imaging on the Response to Tenecteplase in Ischemic Stroke. <i>Circulation</i> , 2017, 135, 440-448.	1.6	36
32	The blood pressure paradox in acute ischemic stroke. <i>Annals of Neurology</i> , 2019, 85, 331-339.	5.3	36
33	Influence of occlusion site and baseline ischemic core on outcome in patients with ischemic stroke. <i>Neurology</i> , 2019, 92, e2626-e2643.	1.1	36
34	Relationship Between Collateral Status, Contrast Transit, and Contrast Density in Acute Ischemic Stroke. <i>Stroke</i> , 2016, 47, 742-749.	2.0	35
35	Perfusion Computed Tomography Accurately Quantifies Collateral Flow After Acute Ischemic Stroke. <i>Stroke</i> , 2020, 51, 1006-1009.	2.0	31
36	The influence of initial stroke severity on mortality, overall functional outcome and in-hospital placement at 90 days following acute ischemic stroke: A tertiary hospital stroke register study. <i>Neurology India</i> , 2017, 65, 1252.	0.4	31

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37	Too good to treat? ischemic stroke patients with small computed tomography perfusion lesions may not benefit from thrombolysis. <i>Annals of Neurology</i> , 2016, 80, 286-293.	5.3	29
38	Computed Tomographic Perfusion Predicts Poor Outcomes in a Randomized Trial of Endovascular Therapy. <i>Stroke</i> , 2018, 49, 1426-1433.	2.0	29
39	Validation of the National Institutes of Health Stroke Scale-8 to Detect Large Vessel Occlusion in Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 1419-1426.	1.6	28
40	Perfusion computed tomography in patients with stroke thrombolysis. <i>Brain</i> , 2017, 140, aww338.	7.6	27
41	Spectroscopy of Reperfused Tissue after Stroke Reveals Heightened Metabolism in Patients with Good Clinical Outcomes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1944-1950.	4.3	26
42	Multi-Modal CT in Acute Stroke: Wait for a Serum Creatinine before Giving Intravenous Contrast? No!. <i>International Journal of Stroke</i> , 2015, 10, 1014-1017.	5.9	26
43	Contralesional Thalamic Surface Atrophy and Functional Disconnection 3 Months after Ischemic Stroke. <i>Cerebrovascular Diseases</i> , 2015, 39, 232-241.	1.7	26
44	Baseline collateral status and infarct topography in post-ischaemic perilesional hyperperfusion: An arterial spin labelling study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1148-1162.	4.3	26
45	Cerebral blood volume lesion extent predicts functional outcome in patients with vertebral and basilar artery occlusion. <i>International Journal of Stroke</i> , 2019, 14, 540-547.	5.9	25
46	Peripheral Immune Cell Counts and Advanced Imaging as Biomarkers of Stroke Outcome. <i>Cerebrovascular Diseases Extra</i> , 2017, 6, 120-128.	1.5	23
47	White Matter Degeneration after Ischemic Stroke: A Longitudinal Diffusion Tensor Imaging Study. <i>Journal of Neuroimaging</i> , 2019, 29, 111-118.	2.0	23
48	Implementation of multimodal computed tomography in a telestroke network: Five-year experience. <i>CNS Neuroscience and Therapeutics</i> , 2020, 26, 367-373.	3.9	22
49	Predicting Modafinil-Treatment Response in Poststroke Fatigue Using Brain Morphometry and Functional Connectivity. <i>Stroke</i> , 2019, 50, 602-609.	2.0	20
50	Permeability Measures Predict Hemorrhagic Transformation after Ischemic Stroke. <i>Annals of Neurology</i> , 2020, 88, 466-476.	5.3	20
51	Influence of Penumbra Reperfusion on Clinical Outcome Depends on Baseline Ischemic Core Volume. <i>Stroke</i> , 2017, 48, 2739-2745.	2.0	19
52	Visibility of CT Early Ischemic Change Is Significantly Associated with Time from Stroke Onset to Baseline Scan beyond the First 3 Hours of Stroke Onset. <i>Journal of Stroke</i> , 2017, 19, 340-346.	3.2	19
53	Association of Cortical Vein Filling with Clot Location and Clinical Outcomes in Acute Ischaemic Stroke Patients. <i>Scientific Reports</i> , 2016, 6, 38525.	3.3	18
54	Cluster-randomized Trial of Thrombolysis Implementation Support in Metropolitan and Regional Australian Stroke Centers: Lessons for Individual and Systems Behavior Change. <i>Journal of the American Heart Association</i> , 2020, 9, e012732.	3.7	18

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55	Acute stroke thrombolysis: time to dispense with the clock and move to tissue-based decision making?. Expert Review of Cardiovascular Therapy, 2011, 9, 451-461.	1.5	17
56	Global White Matter Hypoperfusion on <scp>CT</scp> Predicts Larger Infarcts and Hemorrhagic Transformation after Acute Ischemia. CNS Neuroscience and Therapeutics, 2016, 22, 238-243.	3.9	17
57	The establishment of a telestroke service using multimodal CT imaging decision assistance: â€œTurning on the fog lightsâ€. Journal of Clinical Neuroscience, 2017, 37, 1-5.	1.5	17
58	Exploring the relationship between ischemic core volume and clinical outcomes after thrombectomy or thrombolysis. Neurology, 2019, 93, e283-e292.	1.1	17
59	Endovascular Thrombectomy Versus Medical Management in Isolated <scp>M2</scp> Occlusions: Pooled <scp>Patientâ€™level</scp> Analysis from the <scp>EXTENDâ€™A</scp> Trials, <scp>INSPIRE</scp>, and <scp>SELECT</scp> Studies. Annals of Neurology, 2022, 91, 629-639.	5.3	17
60	Perfusion Abnormalities are Frequently Detected by Early CT Perfusion and Predict Unfavourable Outcome Following Severe Traumatic Brain Injury. World Journal of Surgery, 2017, 41, 2512-2520.	1.6	16
61	Tissue is more important than time: insights into acute ischemic stroke from modern brain imaging. Current Opinion in Neurology, 2018, 31, 23-27.	3.6	16
62	Tissue Is More Important than Time in Stroke Patients Being Assessed for Thrombolysis. Frontiers in Neurology, 2018, 9, 41.	2.4	14
63	Short- and Long-Term Efficacy of Modafinil at Improving Quality of Life in Stroke Survivors: A Post Hoc Sub Study of the Modafinil in Debilitating Fatigue After Stroke Trial. Frontiers in Neurology, 2018, 9, 269.	2.4	14
64	Association of Endovascular Thrombectomy With Functional Outcome in Patients With Acute Stroke With a Large Ischemic Core. Neurology, 2022, 99, .	1.1	13
65	A comprehensive analysis of metabolic changes in the salvaged penumbra. Neuroradiology, 2016, 58, 409-415.	2.2	12
66	Immunity and stroke, the hurdles of stroke research translation. International Journal of Stroke, 2017, 12, 123-131.	5.9	12
67	Growth Hormone Deficiency Is Frequent After Recent Stroke. Frontiers in Neurology, 2018, 9, 713.	2.4	12
68	Modafinil treatment modulates functional connectivity in stroke survivors with severe fatigue. Scientific Reports, 2019, 9, 9660.	3.3	12
69	Association of Reperfusion After Thrombolysis With Clinical Outcome Across the 4.5- to 9-Hours and Wake-up Stroke Time Window. JAMA Neurology, 2021, 78, 236.	9.0	12
70	Modafinil In Debilitating fatigue After Stroke (MIDAS): study protocol for a randomised, double-blinded, placebo-controlled, crossover trial. Trials, 2016, 17, 410.	1.6	11
71	Computed Tomography Perfusion Identifies Patients With Stroke With Impaired Cardiac Function. Stroke, 2020, 51, 498-503.	2.0	11
72	Quantifying reperfusion of the ischemic region on whole-brain computed tomography perfusion. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2125-2136.	4.3	10

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73	Do powered over-ground lower limb robotic exoskeletons affect outcomes in the rehabilitation of people with acquired brain injury?. <i>Disability and Rehabilitation: Assistive Technology</i> , 2019, 14, 764-775.	2.2	10
74	Multimodal Computed Tomography Increases the Detection of Posterior Fossa Strokes Compared to Brain Non-contrast Computed Tomography. <i>Frontiers in Neurology</i> , 2020, 11, 588064.	2.4	10
75	Automated estimation of ischemic core prior to thrombectomy: comparison of two current algorithms. <i>Neuroradiology</i> , 2021, 63, 1645-1649.	2.2	10
76	Stroke Patients With Faster Core Growth Have Greater Benefit From Endovascular Therapy. <i>Stroke</i> , 2021, 52, 3998-4006.	2.0	10
77	Optimal Tissue Reperfusion Estimation by Computed Tomography Perfusion Post-Thrombectomy in Acute Ischemic Stroke. <i>Stroke</i> , 2021, 52, e760-e763.	2.0	10
78	Whole blood viscosity is associated with baseline cerebral perfusion in acute ischemic stroke. <i>Neurological Sciences</i> , 2022, 43, 2375-2381.	1.9	10
79	Use of computed tomography perfusion for acute stroke in routine clinical practice: Complex scenarios, mimics, and artifacts. <i>International Journal of Stroke</i> , 2018, 13, 469-472.	5.9	9
80	Single-phase CT angiography: collateral grade is independent of scan weighting. <i>Neuroradiology</i> , 2019, 61, 19-28.	2.2	9
81	Air vs. Road Decision for Endovascular Clot Retrieval in a Rural Telestroke Network. <i>Frontiers in Neurology</i> , 2020, 11, 628.	2.4	9
82	Association between baseline peri-infarct magnetic resonance spectroscopy and regional white matter atrophy after stroke. <i>Neuroradiology</i> , 2016, 58, 3-10.	2.2	8
83	Gradient of Tissue Injury after Stroke: Rethinking the Infarct versus Noninfarcted Dichotomy. <i>Cerebrovascular Diseases</i> , 2020, 49, 32-38.	1.7	8
84	Multiphase CT Angiography: A Poor Man's Perfusion CT?. <i>Radiology</i> , 2015, 277, 922-924.	7.3	7
85	A model based on the Pennes bioheat transfer equation is valid in normal brain tissue but not brain tissue suffering focal ischaemia. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017, 40, 841-850.	1.3	7
86	Role of Computed Tomography Perfusion in Identification of Acute Lacunar Stroke Syndromes. <i>Stroke</i> , 2021, 52, 339-343.	2.0	7
87	Comparison of Computed Tomography Perfusion and Multiphase Computed Tomography Angiogram in Predicting Clinical Outcomes in Endovascular Thrombectomy. <i>Stroke</i> , 2022, 53, 2926-2934.	2.0	7
88	Dynamic CT but Not Optimized Multiphase CT Angiography Accurately Identifies CT Perfusion Target Mismatch Ischemic Stroke Patients. <i>Frontiers in Neurology</i> , 2019, 10, 1130.	2.4	6
89	Comparing mismatch strategies for patients being considered for ischemic stroke tenecteplase trials. <i>International Journal of Stroke</i> , 2020, 15, 507-515.	5.9	6
90	No Evidence of the "Weekend Effect" in the Northern New South Wales Telestroke Network. <i>Frontiers in Neurology</i> , 2020, 11, 130.	2.4	6

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91	Does variability in automated perfusion software outputs for acute ischemic stroke matter? Reanalysis of EXTEND perfusion imaging. <i>CNS Neuroscience and Therapeutics</i> , 2022, 28, 139-144.	3.9	6
92	Cost-effectiveness of targeted thrombolytic therapy for stroke patients using multi-modal CT compared to usual practice. <i>PLoS ONE</i> , 2018, 13, e0206203.	2.5	5
93	Reduced Impact of Endovascular Thrombectomy on Disability in Real-World Practice, Relative to Randomized Controlled Trial Evidence in Australia. <i>Frontiers in Neurology</i> , 2020, 11, 593238.	2.4	5
94	Physiotherapy using a free-standing robotic exoskeleton for patients with spinal cord injury: a feasibility study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021, 18, 180.	4.6	5
95	Tenecteplase versus Alteplase for Stroke Thrombolysis Evaluation Trial in the Ambulance (Mobile) Tj ETQq1 1 0.784314 rgBT /Overl... superiority trial of tenecteplase versus alteplase for ischaemic stroke patients presenting within 4.5 hours of symptom onset to the mobile stroke unit. <i>BMI Open</i> , 2022, 12, e056573.	1.9	5
96	Identification of Corticospinal Tract Lesion for Predicting Outcome in Small Perfusion Stroke. <i>Stroke</i> , 2018, 49, 2683-2691.	2.0	4
97	Intravenous Thrombolysis May Not Improve Clinical Outcome of Acute Ischemic Stroke Patients Without a Baseline Vessel Occlusion. <i>Frontiers in Neurology</i> , 2018, 9, 405.	2.4	4
98	Plasmin Generation Potential and Recanalization in Acute Ischaemic Stroke; an Observational Cohort Study of Stroke Biobank Samples. <i>Frontiers in Neurology</i> , 2020, 11, 589628.	2.4	4
99	Does Intravenous Thrombolysis Within 4.5 to 9 Hours Increase Clot Migration Leading to Endovascular Inaccessibility?. <i>Stroke</i> , 2021, 52, 1083-1086.	2.0	4
100	Real-World Cost-Effectiveness of Late Time Window Thrombectomy for Patients With Ischemic Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 780894.	2.4	4
101	International benchmarking for acute thrombolytic therapy implementation in Australia and Japan. <i>Journal of Clinical Neuroscience</i> , 2016, 29, 87-91.	1.5	3
102	Abnormalities on Perfusion CT and Intervention for Intracranial Hypertension in Severe Traumatic Brain Injury. <i>Journal of Clinical Medicine</i> , 2020, 9, 2000.	2.4	3
103	The Need for Structured Strategies to Improve Stroke Care in a Rural Telestroke Network in Northern New South Wales, Australia: An Observational Study. <i>Frontiers in Neurology</i> , 2021, 12, 645088.	2.4	3
104	Bringing CT Scanners to the Skies: Design of a CT Scanner for an Air Mobile Stroke Unit. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1560.	2.5	3
105	Response by Bivard et al to Letter Regarding Article, "Impact of Computed Tomography Perfusion Imaging on the Response to Tenecteplase in Ischemic Stroke: Analysis of 2 Randomized Controlled Trials". <i>Circulation</i> , 2017, 135, e1141-e1142.	1.6	2
106	Thrombolysis implementation intervention and clinical outcome: a secondary analysis of a cluster randomized trial. <i>BMC Cardiovascular Disorders</i> , 2020, 20, 432.	1.7	2
107	TACTICS - Trial of Advanced CT Imaging and Combined Education Support for Drip and Ship: evaluating the effectiveness of an "implementation intervention"™ in providing better patient access to reperfusion therapies: protocol for a non-randomised controlled stepped wedge cluster trial in acute stroke. <i>BMJ Open</i> , 2022, 12, e055461.	1.9	2
108	Response by Bivard et al to Letter Regarding Article, "Validating a Predictive Model of Acute Advanced Imaging Biomarkers in Ischemic Stroke". <i>Stroke</i> , 2017, 48, e226.	2.0	1

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109	Assessing the Relative Value of CT Perfusion Compared to Non-contrast CT and CT Angiography in Prognosticating Reperfusion-Eligible Acute Ischemic Stroke Patients. <i>Frontiers in Neurology</i> , 2021, 12, 736768.	2.4	1
110	When a Slice Is Not Enough! Comparison of Whole-Brain versus Standard Limited-Slice Perfusion Computed Tomography in Patients with Severe Traumatic Brain Injury. <i>Journal of Clinical Medicine</i> , 2019, 8, 701.	2.4	0
111	Effects of therapy with a free-standing robotic exoskeleton on motor function and other health indicators in people with severe mobility impairment due to chronic stroke: A quasi-controlled study. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2021, 8, 205566832110458.	0.9	0
112	Ischemic Lesion Growth in Patients with a Persistent Target Mismatch After Large Vessel Occlusion. <i>Clinical Neuroradiology</i> , 0, , .	1.9	0