

# William J Powers

## List of Publications by Year in descending order

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89  
papers

9,499  
citations

136950

32  
h-index

62596

80  
g-index

91  
all docs

91  
docs citations

91  
times ranked

8615  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Guidelines for the Early Management of Patients With Acute Ischemic Stroke: 2019 Update to the 2018 Guidelines for the Early Management of Acute Ischemic Stroke: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association. <i>Stroke</i> , 2019, 50, e344-e418. | 2.0  | 3,733     |
| 2  | Cerebral hemodynamics in ischemic cerebrovascular disease. <i>Annals of Neurology</i> , 1991, 29, 231-240.   | 5.3  | 806       |
| 3  | Extracranial-Intracranial Bypass Surgery for Stroke Prevention in Hemodynamic Cerebral Ischemia. <i>JAMA - Journal of the American Medical Association</i> , 2011, 306, 1983.  | 7.4  | 658       |
| 4  | Cerebral Blood Flow and Cerebral Metabolic Rate of Oxygen Requirements for Cerebral Function and Viability in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1985, 5, 600-608.   | 4.3  | 462       |
| 5  | The Effect of Hemodynamically Significant Carotid Artery Disease on the Hemodynamic Status of the Cerebral Circulation. <i>Annals of Internal Medicine</i> , 1987, 106, 27.  | 3.9  | 433       |
| 6  | Progression of Mass Effect After Intracerebral Hemorrhage. <i>Stroke</i> , 1999, 30, 1167-1173.  | 2.0  | 371       |
| 7  | Hypoperfusion without Ischemia Surrounding Acute Intracerebral Hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 804-810.   | 4.3  | 355       |
| 8  | Physiological responses to focal cerebral ischemia in humans. <i>Annals of Neurology</i> , 1984, 16, 546-552.  | 5.3  | 267       |
| 9  | Cerebral blood flow requirement for brain viability in newborn infants is lower than in adults. <i>Annals of Neurology</i> , 1988, 24, 218-226.  | 5.3  | 182       |
| 10 | Cerebral Blood Volume Measured with Inhaled C <sup>15</sup> O and Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1987, 7, 421-426.   | 4.3  | 163       |
| 11 | Selective defect of in vivo glycolysis in early Huntington's disease striatum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2945-2949.  | 7.1  | 149       |
| 12 | Primary Angiitis of the Central Nervous System at Conventional Angiography. <i>Radiology</i> , 2004, 233, 878-882.   | 7.3  | 139       |
| 13 | Acute Ischemic Stroke. <i>New England Journal of Medicine</i> , 2020, 383, 252-260.  | 27.0 | 136       |
| 14 | Cerebral Oxygen Metabolism after Aneurysmal Subarachnoid Hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991, 11, 837-844.   | 4.3  | 135       |
| 15 | Influence of cerebral hemodynamics on stroke risk: One-year follow-up of 30 medically treated patients. <i>Annals of Neurology</i> , 1989, 25, 325-330.  | 5.3  | 133       |
| 16 | Compensatory Mechanisms for Chronic Cerebral Hypoperfusion in Patients With Carotid Occlusion. <i>Stroke</i> , 1999, 30, 1019-1024.  | 2.0  | 116       |
| 17 | Quantitative measurements of cerebral blood flow in patients with unilateral carotid artery occlusion: A PET and MR study. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 659-667.   | 3.4  | 107       |
| 18 | Count-based PET Method for Predicting Ischemic Stroke in Patients with Symptomatic Carotid Arterial Occlusion. <i>Radiology</i> , 1999, 212, 499-506.  | 7.3  | 80        |

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|----|--|-----|-----------|
| 19 | Cerebral Glucose Transport and Metabolism in Preterm Human Infants. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 632-638.  | 4.3 | 64        |
| 20 | ACR Appropriateness Criteria® Headache. <i>Journal of the American College of Radiology</i> , 2019, 16, S364-S377.   | 1.8 | 52        |
| 21 | Experimental hypoxemic hypoxia: Changes in R2* of brain parenchyma accurately reflect the combined effects of changes in arterial and cerebral venous oxygen saturation. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 474-481.  | 3.0 | 50        |
| 22 | Defining the Ischemic Penumbra Using Magnetic Resonance Oxygen Metabolic Index. <i>Stroke</i> , 2015, 46, 982-988.   | 2.0 | 49        |
| 23 | Autoregulation after ischaemic stroke. <i>Journal of Hypertension</i> , 2009, 27, 2218-2222.   | 0.5 | 45        |
| 24 | Quantitative Magnetic Resonance Imaging in Experimental Hypercapnia: Improvement in the Relation between Changes in Brain R2* and the Oxygen Saturation of Venous Blood after Correction for Changes in Cerebral Blood Volume. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 853-862. | 4.3 | 43        |
| 25 | The use of positron emission tomography in cerebrovascular disease. <i>Neuroimaging Clinics of North America</i> , 2003, 13, 741-758.  | 1.0 | 42        |
| 26 | Prognosis of patients with suspected primary CNS angiitis and negative brain biopsy. <i>Neurology</i> , 2003, 61, 831-833.   | 1.1 | 40        |
| 27 | Lower stroke risk with lower blood pressure in hemodynamic cerebral ischemia. <i>Neurology</i> , 2014, 82, 1027-1032.  | 1.1 | 40        |
| 28 | Primary Angiitis of the Central Nervous System. <i>Neurologic Clinics</i> , 2015, 33, 515-526.   | 1.8 | 40        |
| 29 | Oxygen metabolism in acute ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1481-1499.  | 4.3 | 37        |
| 30 | Quantitative regional brain water measurement with magnetic resonance imaging in a focal ischemia model. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 303-310.  | 3.0 | 36        |
| 31 | Effect of High-Dose Simvastatin on Cerebral Blood Flow and Static Autoregulation in Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2016, 25, 56-63.  | 2.4 | 36        |
| 32 | Intracerebral Hemorrhage and Head Trauma: Common Effects and Common Mechanisms of Injury. <i>Stroke</i> , 2010, 41, S107-S110.   | 2.0 | 35        |
| 33 | Mirror Movements Complicate Interpretation of Cerebral Activation Changes during Recovery from Subcortical Infarction. <i>Neurorehabilitation and Neural Repair</i> , 2000, 14, 213-221.   | 2.9 | 33        |
| 34 | Cerebral Mitochondrial Metabolism in Early Parkinson's Disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1754-1760.  | 4.3 | 32        |
| 35 | Normal platelet mitochondrial complex I activity in Huntington's Disease. <i>Neurobiology of Disease</i> , 2007, 27, 99-101.   | 4.4 | 28        |
| 36 | Effects of acute normovolemic hemodilution on T2* - weighted images of rat brain. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 857-864.   | 3.0 | 26        |

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|----|--|-----|-----------|
| 37 | ACR Appropriateness Criteria® Low Back Pain: 2021 Update. Journal of the American College of Radiology, 2021, 18, S361-S379.   | 1.8 | 24        |
| 38 | Cerebral transport and metabolism of 1-11C-D-glucose during stepped hypoglycemia. Annals of Neurology, 1995, 38, 599-609.  | 5.3 | 23        |
| 39 | Dynamic measurements of local blood flow and metabolism in the study of higher cortical function in humans with positron emission tomography. Annals of Neurology, 1984, 15, 48-49.      | 5.3 | 21        |
| 40 | Atherosclerotic carotid artery occlusion. Current Treatment Options in Cardiovascular Medicine, 2003, 5, 501-509.  | 0.9 | 20        |
| 41 | Metabolic Control of Resting Hemispheric Cerebral Blood Flow is Oxidative, not Glycolytic. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1223-1228.                           | 4.3 | 20        |
| 42 | Management of Patients With Atherosclerotic Carotid Occlusion. Current Treatment Options in Neurology, 2011, 13, 608-615.  | 1.8 | 17        |
| 43 | Clinically Relevant Reperfusion in Acute Ischemic Stroke: MTT Performs Better than Tmax and TTP. Translational Stroke Research, 2014, 5, 415-421.  | 4.2 | 16        |
| 44 | High-Pressure Transvenous Perfusion of the Upper Extremity in Human Muscular Dystrophy: A Safety Study with 0.9% Saline. Human Gene Therapy, 2015, 26, 614-621.                          | 2.7 | 16        |
| 45 | Intra-Arterial Thrombolysis for Basilar Artery Thrombosis. Stroke, 2007, 38, 704-706.  | 2.0 | 15        |
| 46 | ACR Appropriateness Criteria® Orbits Vision and Visual Loss. Journal of the American College of Radiology, 2018, 15, S116-S131.  | 1.8 | 13        |
| 47 | Relative Mean Transit Time Predicts Subsequent Stroke in Symptomatic Carotid Occlusion. Journal of Stroke and Cerebrovascular Diseases, 2016, 25, 1421-1424.                             | 1.6 | 11        |
| 48 | Reperfusion Beyond 6 Hours Reduces Infarct Probability in Moderately Ischemic Brain Tissue. Stroke, 2016, 47, 99-105.  | 2.0 | 11        |
| 49 | ACR Appropriateness Criteria® Dementia. Journal of the American College of Radiology, 2020, 17, S100-S112.   | 1.8 | 11        |
| 50 | Platelet Mitochondrial Complex I and I+III Activities Do Not Correlate with Cerebral Mitochondrial Oxidative Metabolism. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, e1-e5. | 4.3 | 10        |
| 51 | Increased Cortical Cerebral Blood Flow in Asymptomatic Human Immunodeficiency Virus-Infected Subjects. Journal of Stroke and Cerebrovascular Diseases, 2016, 25, 1891-1895.              | 1.6 | 10        |
| 52 | ACR Appropriateness Criteria® Neuroendocrine Imaging. Journal of the American College of Radiology, 2019, 16, S161-S173.   | 1.8 | 10        |
| 53 | ACR Appropriateness Criteria® Cerebrovascular Diseases-Aneurysm, Vascular Malformation, and Subarachnoid Hemorrhage. Journal of the American College of Radiology, 2021, 18, S283-S304.  | 1.8 | 9         |
| 54 | Additional Factors in Considering Patent Foramen Ovale Closure to Prevent Recurrent Ischemic Stroke. JAMA Neurology, 2018, 75, 895.  | 9.0 | 7         |

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|----|---|-----|-----------|
| 55 | ACR Appropriateness Criteria® Ataxia. Journal of the American College of Radiology, 2019, 16, S44-S56.  | 1.8 | 7         |
| 56 | Letter by Powers Regarding Article, "Failure of Cerebral Hemodynamic Selection in General or of Specific Positron Emission Tomography Methodology? Carotid Occlusion Surgery Study (COSS)" Stroke, 2012, 43, e43. | 2.0 | 6         |
| 57 | Dissociation Between Hormonal Counterregulatory Responses and Cerebral Glucose Metabolism During Hypoglycemia. Diabetes, 2017, 66, 2964-2972.   | 0.6 | 6         |
| 58 | Intravenous Alteplase for Mild Nondisabling Acute Ischemic Stroke. JAMA - Journal of the American Medical Association, 2018, 320, 141.  | 7.4 | 6         |
| 59 | Endovascular (Intraarterial) Treatment of Acute Ischemic Stroke: Efficacy Not Supported by Clinical Trials. Southern Medical Journal, 2014, 107, 101-106.   | 0.7 | 6         |
| 60 | Thrombolysis for Acute Ischemic Stroke: Is Intra-arterial Better than Intravenous? A Treatment Effects Model. Journal of Stroke and Cerebrovascular Diseases, 2012, 21, 401-403.                                  | 1.6 | 5         |
| 61 | Perfusion-Diffusion Mismatch: Does It Identify Who Will Benefit from Reperfusion Therapy?. Translational Stroke Research, 2012, 3, 182-187.   | 4.2 | 5         |
| 62 | PET studies of cerebral metabolism in Parkinson Disease. Journal of Bioenergetics and Biomembranes, 2009, 41, 505-508.  | 2.3 | 4         |
| 63 | ACR Appropriateness Criteria® Movement Disorders and Neurodegenerative Diseases. Journal of the American College of Radiology, 2020, 17, S175-S187.   | 1.8 | 4         |
| 64 | William M. Feinberg Award for Excellence in Clinical Stroke. Stroke, 2014, 45, 3123-3128.   | 2.0 | 3         |
| 65 | Time Since Stroke and Risk of Adverse Outcomes After Surgery. JAMA - Journal of the American Medical Association, 2014, 312, 1930.  | 7.4 | 3         |
| 66 | Nonstenotic carotid plaques. Neurology, 2016, 87, 650-651.  | 1.1 | 3         |
| 67 | ACR Appropriateness Criteria® Syncope. Journal of the American College of Radiology, 2021, 18, S229-S238.   | 1.8 | 3         |
| 68 | Strokelore: Angiographic Diagnosis of Primary Angiitis of the Central Nervous System. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 106060.   | 1.6 | 3         |
| 69 | Intra-arterial therapies for acute ischemic stroke: unsafe and without proven value. Journal of NeuroInterventional Surgery, 2012, 4, 164-166.  | 3.3 | 2         |
| 70 | Cerebrovascular Diseases: Controversies and Challenges. Neurologic Clinics, 2015, 33, xiii.   | 1.8 | 2         |
| 71 | Diagnostic accuracy of acute infarcts in multiple cerebral circulations for cardioembolic stroke: Literature review and meta-analysis. Journal of Stroke and Cerebrovascular Diseases, 2020, 29, 104849.          | 1.6 | 2         |
| 72 | Clinical utility of echocardiography in secondary ischemic stroke prevention. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 177, 359-375.  | 1.8 | 2         |

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|----|--|-----|-----------|
| 73 | Strokelore: Antithrombotic therapy and hemorrhagic infarction. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106395.   | 1.6 | 2         |
| 74 | Intravenous thrombolysis of basilar artery thrombosis. Annals of Neurology, 2014, 75, 456-457.   | 5.3 | 1         |
| 75 | Letter by Sen and Powers Regarding Article, "Adherence to Third European Cooperative Acute Stroke Study 3- to 4.5-Hour Exclusions and Association With Outcome: Data From Get With The Guidelines-Stroke" Stroke, 2015, 46, e15. | 2.0 | 1         |
| 76 | Pupil-sparing third nerve palsies and hemiataxia: Claude's and reverse Claude's syndrome. Journal of Clinical Neuroscience, 2016, 28, 178-180.   | 1.5 | 1         |
| 77 | "Disappearing Infarct" Is Late-Onset <scp>MELAS</scp>. Annals of Neurology, 2021, 90, 1001-1002.   | 5.3 | 1         |
| 78 | Strokelore: Therapeutic Relevance of Lacunar Infarcts. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106594.   | 1.6 | 1         |
| 79 | Strokelore: Intracranial volumes and pressures following cerebral hemorrhage. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106637.  | 1.6 | 1         |
| 80 | Hyperglycemia is not associated with mortality in bacterial meningitis. Annals of Neurology, 1983, 14, 82-83.  | 5.3 | 0         |
| 81 | Atherosclerotic carotid artery occlusion. Current Treatment Options in Neurology, 2003, 5, 381-389.  | 1.8 | 0         |
| 82 | 10 Most Commonly Asked Questions About Carotid Artery Occlusion. Neurologist, 2003, 9, 167-169.  | 0.7 | 0         |
| 83 | Note on Levels of Clinical Efficacy. Neurologic Clinics, 2015, 33, xv-xvii.  | 1.8 | 0         |
| 84 | Strokelore: Early Anticoagulation for Large Ischemic Strokes. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 106085.  | 1.6 | 0         |
| 85 | Commentary on "Inpatient Rehabilitation Centers and Concern for Increasing Volume of Ischemic Stroke Patients Requiring Rehabilitation" Southern Medical Journal, 2013, 106, 697.  | 0.7 | 0         |
| 86 | 15O PET Imaging: Methods and Applications. , 2022, , 197-216.  |     | 0         |
| 87 | Data Do Not Support Selection by Target Perfusion Mismatch of Patients for Endovascular Stroke Treatment Within the 16- to 24-Hour Interval. JAMA Neurology, 2022, , .   | 9.0 | 0         |
| 88 | Strokelore: Outcome of Basilar Artery Occlusion. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106437.   | 1.6 | 0         |
| 89 | Traditional risk factors and combined genetic markers of recurrent ischemic stroke in adults: Comment from Wilson et al.. Journal of Thrombosis and Haemostasis, 2022, 20, 263-264.  | 3.8 | 0         |