

# Jorn Fierstra

## List of Publications by Year in descending order

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37  
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citations

394421

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37  
docs citations

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times ranked

1371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring cerebrovascular reactivity: what stimulus to use?. <i>Journal of Physiology</i> , 2013, 591, 5809-5821.	2.9	248
2	A conceptual model for CO <sub>2</sub> -induced redistribution of cerebral blood flow with experimental confirmation using BOLD MRI. <i>NeuroImage</i> , 2014, 92, 56-68.	4.2	126
3	Impaired Cerebrovascular Reactivity With Steal Phenomenon Is Associated With Increased Diffusion in White Matter of Patients With Moyamoya Disease. <i>Stroke</i> , 2010, 41, 1610-1616.	2.0	90
4	Quantitative Measurement of Cerebrovascular Reactivity by Blood Oxygen Level-Dependent MR Imaging in Patients with Intracranial Stenosis: Preoperative Cerebrovascular Reactivity Predicts the Effect of Extracranial-Intracranial Bypass Surgery. <i>American Journal of Neuroradiology</i> , 2011, 32, 721-727.	2.4	80
5	Impaired peri-nidal cerebrovascular reserve in seizure patients with brain arteriovenous malformations. <i>Brain</i> , 2011, 134, 100-109.	7.6	79
6	Assessing Cerebrovascular Reactivity Abnormality by Comparison to a Reference Atlas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 213-220.	4.3	79
7	Neuroimaging Assessment of Cerebrovascular Reactivity in Concussion: Current Concepts, Methodological Considerations, and Review of the Literature. <i>Frontiers in Neurology</i> , 2016, 7, 61.	2.4	76
8	Surgical Revascularization Reverses Cerebral Cortical Thinning in Patients With Severe Cerebrovascular Steno-Occlusive Disease. <i>Stroke</i> , 2011, 42, 1631-1637.	2.0	64
9	Severely impaired cerebrovascular reserve in patients with cerebral proliferative angiopathy. <i>Journal of Neurosurgery: Pediatrics</i> , 2011, 8, 310-315.	1.3	39
10	Iterative analysis of cerebrovascular reactivity dynamic response by temporal decomposition. <i>Brain and Behavior</i> , 2017, 7, e00705.	2.2	39
11	Temporal Profile of Cerebrovascular Reactivity Impairment, Gray Matter Volumes, and Persistent Symptoms after Mild Traumatic Head Injury. <i>Frontiers in Neurology</i> , 2016, 7, 70.	2.4	34
12	Distal outflow occlusion with bypass revascularization: last resort measure in managing complex MCA and PICA aneurysms. <i>Acta Neurochirurgica</i> , 2016, 158, 1523-1531.	1.7	33
13	Fine tuning breath-hold-based cerebrovascular reactivity analysis models. <i>Brain and Behavior</i> , 2016, 6, e00426.	2.2	30
14	End-inspiratory rebreathing reduces the end-tidal to arterial PCO <sub>2</sub> gradient in mechanically ventilated pigs. <i>Intensive Care Medicine</i> , 2011, 37, 1543-1550.	8.2	28
15	Preoperative angiotensin converting enzyme inhibitor usage in patients with chronic subdural hematoma: Associations with initial presentation and clinical outcome. <i>Journal of Clinical Neuroscience</i> , 2016, 28, 82-86.	1.5	27
16	â€œSTA-MCA bypass with encephalo-duro-myo-synangiosis combined with bifrontal encephalo-duro-periosteal-synangiosisâ€•as a one-staged revascularization strategy for pediatric moyamoya vasculopathy. <i>Child's Nervous System</i> , 2015, 31, 765-772.	1.1	23
17	Impact of baseline CO <sub>2</sub> on Blood-Oxygenation-Level-Dependent MRI measurements of cerebrovascular reactivity and task-evoked signal activation. <i>Magnetic Resonance Imaging</i> , 2018, 49, 123-130.	1.8	23
18	Blood Velocity Calculated From Volumetric Dynamic Computed Tomography Angiography. <i>Investigative Radiology</i> , 2010, 45, 778-781.	6.2	21

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19	Altered intraoperative cerebrovascular reactivity in brain areas of high-grade glioma recurrence. <i>Magnetic Resonance Imaging</i> , 2016, 34, 803-808.	1.8	21
20	Crossed Cerebellar Diaschisis Indicates Hemodynamic Compromise in Ischemic Stroke Patients. <i>Translational Stroke Research</i> , 2021, 12, 39-48.	4.2	16
21	Intra-vascular blood velocity and volumetric flow rate calculated from dynamic 4D CT angiography using a time of flight technique. <i>International Journal of Cardiovascular Imaging</i> , 2014, 30, 1383-1392.	1.5	15
22	Anatomical features of primary brain tumors affect seizure risk and semiology. <i>NeuroImage: Clinical</i> , 2019, 22, 101688.	2.7	14
23	BOLD MRI and early impairment of cerebrovascular reserve after aneurysmal subarachnoid hemorrhage. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 972-979.	3.4	12
24	High-Frequency Intra-operative Ultrasound-Guided Surgery of Superficial Intra-cerebral Lesions via a Single-Burr-Hole Approach. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1469-1475.	1.5	11
25	Blood oxygenâ€level dependent functional assessment of cerebrovascular reactivity: Feasibility for intraoperative 3 Tesla MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 806-813.	3.0	10
26	Mapping Cerebrovascular Reactivity Impairment in Patients With Symptomatic Unilateral Carotid Artery Disease. <i>Journal of the American Heart Association</i> , 2021, 10, e020792.	3.7	9
27	Feasibility and precision of cerebral blood flow and cerebrovascular reactivity MRI measurements using a computerâ€controlled gas delivery system in an anesthetised juvenile animal model. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 1068-1075.	3.4	8
28	A comment on â€Contralateral cerebral hemodynamic changes after unilateral direct revascularization in patients with moyamoya diseaseâ€. <i>Neurosurgical Review</i> , 2012, 35, 141-143.	2.4	8
29	Crossed Cerebellar Diaschisis in Patients with Diffuse Glioma Is Associated with Impaired Supratentorial Cerebrovascular Reactivity and Worse Clinical Outcome. <i>Cerebellum</i> , 2020, 19, 824-832.	2.5	8
30	Systematic review of brain arteriovenous malformation grading systems evaluating microsurgical treatment recommendation. <i>Neurosurgical Review</i> , 2021, 44, 2571-2582.	2.4	8
31	Intravascular Functional Maps of Common Neurovascular Lesions Derived From Volumetric 4D CT Data. <i>Investigative Radiology</i> , 2010, 45, 370-377.	6.2	8
32	Hypermetabolism and impaired cerebrovascular reactivity beyond the standard MRI-identified tumor border indicate diffuse glioma extended tissue infiltration. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab048.	0.7	6
33	Hemodynamic Imaging in Cerebral Diffuse Gliomaâ€Part A: Concept, Differential Diagnosis and Tumor Grading. <i>Cancers</i> , 2022, 14, 1432.	3.7	6
34	Amended Intraoperative Neuronavigation: Three-Dimensional Vascular Roadmapping with Selective Rotational Digital Subtraction Angiography. <i>World Neurosurgery</i> , 2020, 135, 183-187.	1.3	5
35	Hemodynamic Imaging in Cerebral Diffuse Gliomaâ€Part B: Molecular Correlates, Treatment Effect Monitoring, Prognosis, and Future Directions. <i>Cancers</i> , 2022, 14, 1342.	3.7	5
36	Outcome Comparison Between Surgically Treated Brain Arteriovenous Malformation Hemorrhage and Spontaneous Intracerebral Hemorrhage. <i>World Neurosurgery</i> , 2020, 139, e807-e811.	1.3	4

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37	Distinct Cerebrovascular Reactivity Patterns for Brain Radiation Necrosis. <i>Cancers</i> , 2021, 13, 1840.	3.7	3