Marek Czosnyka

List of Publications by Year
in descending order

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		3919	7718
614	32,735	88	150
papers	citations	h-index	g-index

624	624	624	12830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	4.9	1,571
2	Trial of Decompressive Craniectomy for Traumatic Intracranial Hypertension. New England Journal of Medicine, 2016, 375, 1119-1130.	13.9	901
3	Continuous Assessment of the Cerebral Vasomotor Reactivity in Head Injury. Neurosurgery, 1997, 41, 11-19.	0.6	732
4	Continuous Assessment of Cerebral Autoregulation With Near-Infrared Spectroscopy in Adults After Subarachnoid Hemorrhage. Stroke, 2010, 41, 1963-1968.	1.0	673
5	Continuous monitoring of cerebrovascular pressure reactivity allows determination of optimal cerebral perfusion pressure in patients with traumatic brain injury. Critical Care Medicine, 2002, 30, 733-738.	0.4	646
6	Monitoring and interpretation of intracranial pressure. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 813-821.	0.9	613
7	Monitoring of Cerebral Autoregulation in Head-Injured Patients. Stroke, 1996, 27, 1829-1834.	1.0	448
8	Continuous determination of optimal cerebral perfusion pressure in traumatic brain injury*. Critical Care Medicine, 2012, 40, 2456-2463.	0.4	447
9	Effects of Acute Treatment With Pravastatin on Cerebral Vasospasm, Autoregulation, and Delayed Ischemic Deficits After Aneurysmal Subarachnoid Hemorrhage. Stroke, 2005, 36, 1627-1632.	1.0	422
10	Real-Time Continuous Monitoring of Cerebral Blood Flow Autoregulation Using Near-Infrared Spectroscopy in Patients Undergoing Cardiopulmonary Bypass. Stroke, 2010, 41, 1951-1956.	1.0	357
11	Critical Thresholds for Cerebrovascular Reactivity After Traumatic Brain Injury. Neurocritical Care, 2012, 16, 258-266.	1.2	339
12	Consensus Summary Statement of the International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care. Neurocritical Care, 2014, 21, 1-26.	1.2	339
13	Cerebral extracellular chemistry and outcome following traumatic brain injury: a microdialysis study of 223 patients. Brain, 2011, 134, 484-494.	3.7	326
14	Monitoring of Cerebrovascular Autoregulation: Facts, Myths, and Missing Links. Neurocritical Care, 2009, 10, 373-386.	1.2	303
15	Continuous Time-Domain Analysis of Cerebrovascular Autoregulation Using Near-Infrared Spectroscopy. Stroke, 2007, 38, 2818-2825.	1.0	300
16	Impact of Intracranial Pressure and Cerebral Perfusion Pressure on Severe Disability and Mortality After Head Injury. Neurocritical Care, 2006, 4, 008-013.	1.2	298
17	Cerebrovascular Reactivity Measured by Near-Infrared Spectroscopy. Stroke, 2009, 40, 1820-1826.	1.0	269
18	Cerebral autoregulation following head injury. Journal of Neurosurgery, 2001, 95, 756-763.	0.9	266

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19	Consensus statement from the 2014 International Microdialysis Forum. Intensive Care Medicine, 2015, 41, 1517-1528.	3.9	263
20	Consensus summary statement of the International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care. Intensive Care Medicine, 2014, 40, 1189-1209.	3.9	258
21	Optic nerve sheath diameter measured sonographically as non-invasive estimator of intracranial pressure: a systematic review and meta-analysis. Intensive Care Medicine, 2018, 44, 1284-1294.	3.9	250
22	Transcranial Doppler Pulsatility Index: What it is and What it Isnâ€™t. Neurocritical Care, 2012, 17, 58-66.	1.2	227
23	Cerebral perfusion pressure in head-injured patients: a noninvasive assessment using transcranial Doppler ultrasonography. Journal of Neurosurgery, 1998, 88, 802-808.	0.9	214
24	Pattern of white matter regional cerebral blood flow and autoregulation in normal pressure hydrocephalus. Brain, 2004, 127, 965-972.	3.7	212
25	Effect of decompressive craniectomy on intracranial pressure and cerebrospinal compensation following traumatic brain injury. Journal of Neurosurgery, 2008, 108, 66-73.	0.9	207
26	The pathophysiology and treatment of delayed cerebral ischaemia following subarachnoid haemorrhage. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 1343-1353.	0.9	206
27	Impairment of Cerebral Autoregulation Predicts Delayed Cerebral Ischemia After Subarachnoid Hemorrhage. Stroke, 2012, 43, 3230-3237.	1.0	202
28	Assessment of Cerebrovascular Autoregulation in Head-Injured Patients. Stroke, 2003, 34, 2404-2409.	1.0	176
29	Ultrasound non-invasive measurement of intracranial pressure in neurointensive care: A prospective observational study. PLoS Medicine, 2017, 14, e1002356.	3.9	174
30	Predictive value of Glasgow Coma Scale after brain trauma: change in trend over the past ten years. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 161-2.	0.9	174
31	Continuous monitoring of cerebrovascular pressure reactivity in patients with head injury. Neurosurgical Focus, 2008, 25, E2.	1.0	173
32	Cerebrospinal fluid dynamics. Physiological Measurement, 2004, 25, R51-R76.	1.2	172
33	Near-Infrared Spectroscopy can Monitor Dynamic Cerebral Autoregulation in Adults. Neurocritical Care, 2009, 10, 122-128.	1.2	171
34	Relationship between transcranial Doppler-determined pulsatility index and cerebrovascular resistance: an experimental study. Journal of Neurosurgery, 1996, 84, 79-84.	0.9	169
35	Bifrontal decompressive craniectomy in the management of posttraumatic intracranial hypertension. British Journal of Neurosurgery, 2001, 15, 500-507.	0.4	167
36	Non-invasive Monitoring of Intracranial Pressure Using Transcranial Doppler Ultrasonography: Is It Possible?. Neurocritical Care, 2016, 25, 473-491.	1.2	165

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37	Age, intracranial pressure, autoregulation, and outcome after brain trauma. Journal of Neurosurgery, 2005, 102, 450-454.	0.9	163
38	Clinical relevance of cerebral autoregulation following subarachnoid haemorrhage. Nature Reviews Neurology, 2013, 9, 152-163.	4.9	162
39	Specific patterns of cognitive impairment in patients with idiopathic normal pressure hydrocephalus and Alzheimer's disease: a pilot study. Journal of Neurology, Neurosurgery and Psychiatry, 1999, 67, 723-732.	0.9	160
40	Predictive value of initial computerized tomography scan, intracranial pressure, and state of autoregulation in patients with traumatic brain injury. Journal of Neurosurgery, 2006, 104, 731-737.	0.9	152
41	Intracranial hypertension: what additional information can be derived from ICP waveform after head injury?. Acta Neurochirurgica, 2004, 146, 131-141.	0.9	151
42	Impaired Autoregulation of Cerebral Blood Flow During Rewarming from Hypothermic Cardiopulmonary Bypass and Its Potential Association with Stroke. Anesthesia and Analgesia, 2010, 110, 321-328.	1.1	147
43	Near-infrared spectroscopy use in patients with head injury. Journal of Neurosurgery, 1995, 83, 963-970.	0.9	146
44	Regulation of the cerebral circulation: bedside assessment and clinical implications. Critical Care, 2016, 20, 129.	2.5	146
45	Significance of intracranial pressure waveform analysis after head injury. Acta Neurochirurgica, 1996, 138, 531-542.	0.9	144
46	Consensus statement from the International Consensus Meeting on the Role of Decompressive Craniectomy in the Management of Traumatic Brain Injury. Acta Neurochirurgica, 2019, 161, 1261-1274.	0.9	143
47	Noninvasive Monitoring of Cerebrovascular Reactivity with Near Infrared Spectroscopy in Head-Injured Patients. Journal of Neurotrauma, 2010, 27, 1951-1958.	1.7	142
48	Optic nerve sheath diameter on computed tomography is correlated with simultaneously measured intracranial pressure in patients with severe traumatic brain injury. Intensive Care Medicine, 2014, 40, 1267-1274.	3.9	141
49	Contribution of mathematical modelling to the interpretation of bedside tests of cerebrovascular autoregulation. Journal of Neurology, Neurosurgery and Psychiatry, 1997, 63, 721-731.	0.9	140
50	Monitoring of Spinal Cord Perfusion Pressure in Acute Spinal Cord Injury. Critical Care Medicine, 2014, 42, 646-655.	0.4	140
51	Dynamic Cerebral Autoregulation in Acute Ischemic Stroke Assessed From Spontaneous Blood Pressure Fluctuations. Stroke, 2005, 36, 1684-1689.	1.0	135
52	Reliability of the Blood Flow Velocity Pulsatility Index for Assessment of Intracranial and Cerebral Perfusion Pressures in Head-Injured Patients. Neurosurgery, 2012, 71, 853-861.	0.6	134
53	Dynamic cerebral autoregulation associates with infarct size and outcome after ischemic stroke. Acta Neurologica Scandinavica, 2012, 125, 156-162.	1.0	133
54	Brain ultrasonography: methodology, basic and advanced principles and clinical applications. A narrative review. Intensive Care Medicine, 2019, 45, 913-927.	3.9	132

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55	Normal Pressure Hydrocephalus and Cerebral Blood Flow: A PET Study of Baseline Values. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 17-23.	2.4	129
56	Cerebral Autoregulation in Carotid Artery Occlusive Disease Assessed From Spontaneous Blood Pressure Fluctuations by the Correlation Coefficient Index. Stroke, 2003, 34, 2138-2144.	1.0	126
57	Assessment of Cerebral Autoregulation Using Carotid Artery Compression. Stroke, 1996, 27, 2197-2203.	1.0	126
58	Continuous Assessment of Cerebral Autoregulation in Subarachnoid Hemorrhage. Anesthesia and Analgesia, 2004, 98, 1133-1139.	1.1	123
59	Continuous Monitoring of Cerebrovascular Pressure Reactivity After Traumatic Brain Injury in Children. Pediatrics, 2009, 124, e1205-e1212.	1.0	122
60	Patient-specific thresholds of intracranial pressure in severe traumatic brain injury. Journal of Neurosurgery, 2014, 120, 893-900.	0.9	121
61	A Phase-Contrast MRI Study of Physiologic Cerebral Venous Flow. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1208-1215.	2.4	119
62	Testing of cerebrospinal compensatory reserve in shunted and non-shunted patients: a guide to interpretation based on an observational study.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 60, 549-558.	0.9	116
63	Evaluation of the transient hyperemic response test in head-injured patients. Journal of Neurosurgery, 1997, 86, 773-778.	0.9	116
64	Expansion Duroplasty Improves Intraspinal Pressure, Spinal Cord Perfusion Pressure, and Vascular Pressure Reactivity Index in Patients with Traumatic Spinal Cord Injury: Injured Spinal Cord Pressure Evaluation Study. Journal of Neurotrauma, 2015, 32, 865-874.	1.7	116
65	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. Critical Care Medicine, 2017, 45, 1464-1471.	0.4	116
66	Adaptive Noninvasive Assessment of Intracranial Pressure and Cerebral Autoregulation. Stroke, 2003, 34, 84-89.	1.0	115
67	Critical Thresholds for Transcranial Doppler Indices of Cerebral Autoregulation in Traumatic Brain Injury. Neurocritical Care, 2011, 14, 188-193.	1.2	115
68	Can Cerebrovascular Reactivity Be Measured With Near-Infrared Spectroscopy?. Stroke, 1995, 26, 2285-2292.	1.0	115
69	Impaired cerebral autoregulation: measurement and application to stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, 520-531.	0.9	114
70	Cerebrovascular reactivity during hypothermia and rewarming. British Journal of Anaesthesia, 2007, 99, 237-244.	1.5	112
71	The Relationship Between Cerebral Blood Flow Autoregulation and Cerebrovascular Pressure Reactivity After Traumatic Brain Injury. Neurosurgery, 2012, 71, 652-661.	0.6	111
72	Continuous monitoring of cerebrovascular autoregulation: a validation study. Journal of Neurology, Neurosurgery and Psychiatry, 2002, 72, 583-586.	0.9	110

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73	Assessment of cerebrospinal fluid outflow resistance. Medical and Biological Engineering and Computing, 2007, 45, 719-735.	1.6	108
74	Laboratory Testing of Three Intracranical Pressure Microtransducers: Technical Report. Neurosurgery, 1996, 38, 219-224.	0.6	107
75	Non-invasive assessment of intracranial pressure. Acta Neurologica Scandinavica, 2016, 134, 4-21.	1.0	107
76	Management of raised intracranial pressure.. Journal of Neurology, Neurosurgery and Psychiatry, 1993, 56, 845-858.	0.9	104
77	Positron Emission Tomographic Cerebral Perfusion Disturbances and Transcranial Doppler Findings among Patients with Neurological Deterioration after Subarachnoid Hemorrhage. Neurosurgery, 2003, 52, 1017-1024.	0.6	104
78	Monitoring of Cerebral Autoregulation. Neurocritical Care, 2014, 21, 95-102.	1.2	104
79	The Surgical Approach to the Management of Increased Intracranial Pressure After Traumatic Brain Injury. Anesthesia and Analgesia, 2010, 111, 736-748.	1.1	103
80	Optimal Cerebral Perfusion Pressure Management at Bedside: A Single-Center Pilot Study. Neurocritical Care, 2015, 23, 92-102.	1.2	103
81	Neonatal cerebrovascular autoregulation. Pediatric Research, 2018, 84, 602-610.	1.1	103
82	Posture-related Overdrainage: Comparison of the Performance of 10 Hydrocephalus Shunts in Vitro. Neurosurgery, 1998, 42, 327-334.	0.6	102
83	ICM+: software for on-line analysis of bedside monitoring data after severe head trauma. Acta Neurochirurgica Supplementum, 2005, 95, 43-49.	0.5	102
84	Tissue oxygen reactivity and cerebral autoregulation after severe traumatic brain injury*. Critical Care Medicine, 2003, 31, 267-271.	0.4	99
85	Intracranial Pressure: More Than a Number. Neurosurgical Focus, 2007, 22, 1-7.	1.0	99
86	The Burden of Brain Hypoxia and Optimal Mean Arterial Pressure in Patients With Hypoxic Ischemic Brain Injury After Cardiac Arrest*. Critical Care Medicine, 2019, 47, 960-969.	0.4	97
87	Hemodynamic characterization of intracranial pressure plateau waves in head-injured patients. Journal of Neurosurgery, 1999, 91, 11-19.	0.9	95
88	Age dependence of cerebrospinal pressureâ€”volume compensation in patients with hydrocephalus. Journal of Neurosurgery, 2001, 94, 482-486.	0.9	94
89	Feasibility of individualised severe traumatic brain injury management using an automated assessment of optimal cerebral perfusion pressure: the COGiTATE phase II study protocol. BMJ Open, 2019, 9, e030727.	0.8	94
90	Model-Based Noninvasive Estimation of Intracranial Pressure from Cerebral Blood Flow Velocity and Arterial Pressure. Science Translational Medicine, 2012, 4, 129ra44.	5.8	92

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91	Twenty-Five Years of Intracranial Pressure Monitoring After Severe Traumatic Brain Injury: A Retrospective, Single-Center Analysis. Neurosurgery, 2019, 85, E75-E82.	0.6	92
92	Continuous Monitoring of Cerebrovascular Reactivity Using Pulse Waveform of Intracranial Pressure. Neurocritical Care, 2012, 17, 67-76.	1.2	91
93	Decompressive craniectomy following traumatic brain injury: developing the evidence base. British Journal of Neurosurgery, 2016, 30, 246-250.	0.4	91
94	Clinical Evaluation of Near-Infrared Spectroscopy for Testing Cerebrovascular Reactivity in Patients With Carotid Artery Disease. Stroke, 1997, 28, 331-338.	1.0	89
95	Targeting Autoregulation-Guided Cerebral Perfusion Pressure after Traumatic Brain Injury (COGiTATE): A Feasibility Randomized Controlled Clinical Trial. Journal of Neurotrauma, 2021, 38, 2790-2800.	1.7	88
96	Critical closing pressure in cerebrovascular circulation. Journal of Neurology, Neurosurgery and Psychiatry, 1999, 66, 606-611.	0.9	86
97	Effect of Carotid Endarterectomy or Stenting on Impairment of Dynamic Cerebral Autoregulation. Stroke, 2004, 35, 1381-1387.	1.0	85
98	What Shapes Pulse Amplitude of Intracranial Pressure?. Journal of Neurotrauma, 2010, 27, 317-324.	1.7	84
99	Monitoring cerebral autoregulation after head injury. Which component of transcranial Doppler flow velocity is optimal?. Neurocritical Care, 2012, 17, 211-218.	1.2	84
100	Cerebral Perfusion Pressure Targets Individualized to Pressure-Reactivity Index in Moderate to Severe Traumatic Brain Injury: A Systematic Review. Journal of Neurotrauma, 2017, 34, 963-970.	1.7	84
101	The Continuous Assessment of Cerebrovascular Reactivity: A Validation of the Method in Healthy Volunteers. Anesthesia and Analgesia, 1999, 89, 944.	1.1	83
102	Transcranial Doppler: a stethoscope for the brainâ€neurocritical care use. Journal of Neuroscience Research, 2018, 96, 720-730.	1.3	83
103	Cerebral Autoregulation after Subarachnoid Hemorrhage: Comparison of Three Methods. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 449-456.	2.4	82
104	Effects of pneumoperitoneum and Trendelenburg position on intracranial pressure assessed using different non-invasive methods. British Journal of Anaesthesia, 2016, 117, 783-791.	1.5	81
105	Secondary decline of cerebral autoregulation is associated with worse outcome after intracerebral hemorrhage. Intensive Care Medicine, 2010, 36, 264-271.	3.9	80
106	Relationship between cerebrovascular dysautoregulation and arterial blood pressure in the premature infant. Journal of Perinatology, 2011, 31, 722-729.	0.9	80
107	The International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care: Evidentiary Tables. Neurocritical Care, 2014, 21, 297-361.	1.2	80
108	Computerized infusion test compared to steady pressure constant infusion test in measurement of resistance to CSF outflow. Acta Neurochirurgica, 1992, 119, 12-16.	0.9	77

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109	Critical Thresholds of Intracranial Pressure-Derived Continuous Cerebrovascular Reactivity Indices for Outcome Prediction in Noncraniectomized Patients with Traumatic Brain Injury. Journal of Neurotrauma, 2018, 35, 1107-1115.	1.7	77
110	Preliminary experience of the estimation of cerebral perfusion pressure using transcranial Doppler ultrasonography. Journal of Neurology, Neurosurgery and Psychiatry, 2001, 70, 198-204.	0.9	75
111	An Assessment of Dynamic Autoregulation from Spontaneous Fluctuations of Cerebral Blood Flow Velocity: A Comparison of Two Models, Index of Autoregulation and Mean Flow Index. Anesthesia and Analgesia, 2008, 106, 234-239.	1.1	74
112	Interaction between Brain Chemistry and Physiology after Traumatic Brain Injury: Impact of Autoregulation and Microdialysis Catheter Location. Journal of Neurotrauma, 2011, 28, 849-860.	1.7	74
113	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. Journal of Neurotrauma, 2016, 33, 792-802.	1.7	74
114	Predictors of Outcome With Cerebral Autoregulation Monitoring: A Systematic Review and Meta-Analysis. Critical Care Medicine, 2017, 45, 695-704.	0.4	74
115	Computer supported multimodal bed-side monitoring for neuro intensive care. Journal of Clinical Monitoring and Computing, 1994, 11, 223-232.	0.3	73
116	Nonlinear Assessment of Cerebral Autoregulation from Spontaneous Blood Pressure and Cerebral Blood Flow Fluctuations. Cardiovascular Engineering (Dordrecht, Netherlands), 2008, 8, 60-71.	1.0	73
117	INDEX OF CEREBROSPINAL COMPENSATORY RESERVE IN HYDROCEPHALUS. Neurosurgery, 2009, 64, 494-502.	0.6	73
118	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. Brain, 2012, 135, 2399-2408.	3.7	73
119	Monitoring and interpretation of intracranial pressure after head injury. , 2006, 96, 114-118.		73
120	The frequency response of cerebral autoregulation. Journal of Applied Physiology, 2013, 115, 52-56.	1.2	72
121	Responses of Posttraumatic Pericontusional Cerebral Blood Flow and Blood Volume to an Increase in Cerebral Perfusion Pressure. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1371-1377.	2.4	71
122	Critical Closing Pressure Determined with a Model of Cerebrovascular Impedance. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 235-243.	2.4	71
123	The International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care: A List of Recommendations and Additional Conclusions. Neurocritical Care, 2014, 21, 282-296.	1.2	71
124	A computer system for the identification of the cerebrospinal compensatory model. Acta Neurochirurgica, 1990, 105, 112-116.	0.9	70
125	Renovascular reactivity measured by near-infrared spectroscopy. Journal of Applied Physiology, 2012, 113, 307-314.	1.2	70
126	Further understanding of cerebral autoregulation at the bedside: possible implications for future therapy. Expert Review of Neurotherapeutics, 2015, 15, 169-185.	1.4	70

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127	Cerebral autoregulation in patients with obstructive sleep apnea syndrome during wakefulness. European Journal of Neurology, 2009, 16, 386-391.	1.7	69
128	Comparison of Frequency and Time Domain Methods of Assessment of Cerebral Autoregulation in Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 248-256.	2.4	69
129	Continuous time-domain monitoring of cerebral autoregulation in neurocritical care. Medical Engineering and Physics, 2014, 36, 638-645.	0.8	68
130	Continuous Autoregulatory Indices Derived from Multi-Modal Monitoring: Each One Is Not Like the Other. Journal of Neurotrauma, 2017, 34, 3070-3080.	1.7	67
131	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part II: A Scoping Review of Continuous Methods. Journal of Neurotrauma, 2017, 34, 3224-3237.	1.7	67
132	Cerebrovascular pressure reactivity is related to global cerebral oxygen metabolism after head injury. Journal of Neurology, Neurosurgery and Psychiatry, 2003, 74, 765-770.	0.9	66
133	Asymmetry of pressure autoregulation after traumatic brain injury. Journal of Neurosurgery, 2003, 99, 991-998.	0.9	66
134	Value of Overnight Monitoring of Intracranial Pressure in Hydrocephalic Children. Pediatric Neurosurgery, 2008, 44, 269-279.	0.4	66
135	Cerebral dysautoregulation and the risk of ischemic events in occlusive carotid artery disease. Journal of Neurology, 2008, 255, 1182-1189.	1.8	65
136	Continuous Monitoring of Cerebrovascular Pressure-Reactivity in Head Injury. , 1998, 71, 74-77.		64
137	The hyperaemic response to a transient reduction in cerebral perfusion pressure. Acta Neurochirurgica, 1992, 115, 90-97.	0.9	63
138	Computerised transient hyperaemic response testâ€"A method for the assessment of cerebral autoregulation. Ultrasound in Medicine and Biology, 1995, 21, 599-611.	0.7	63
139	Early Effects of Mannitol in Patients with Head Injuries Assessed Using Bedside Multimodality Monitoring. Neurosurgery, 1996, 39, 714-721.	0.6	63
140	Using the relationship between brain tissue regional saturation of oxygen and mean arterial pressure to determine the optimal mean arterial pressure in patients following cardiac arrest: A pilot proof-of-concept study. Resuscitation, 2016, 106, 120-125.	1.3	63
141	Measuring cerebrovascular autoregulation in preterm infants using near-infrared spectroscopy: an overview of the literature. Expert Review of Neurotherapeutics, 2017, 17, 801-818.	1.4	63
142	Elastance Correlates with Outcome after Endoscopic Third Ventriculostomy in Adults with Hydrocephalus Caused by Primary Aqueductal Stenosis. Neurosurgery, 2002, 50, 70-77.	0.6	62
143	â€œOptimal Cerebral Perfusion Pressureâ€•in Poor Grade Patients After Subarachnoid Hemorrhage. Neurocritical Care, 2010, 13, 17-23.	1.2	62
144	Experimental Aspects of Cerebrospinal Hemodynamics. Neurosurgery, 1992, 31, 705-710.	0.6	62

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145	The Effects of Large-Dose Propofol on Cerebrovascular Pressure Autoregulation in Head-Injured Patients. Anesthesia and Analgesia, 2003, 97, 572-576.	1.1	61
146	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. Critical Care Medicine, 2016, 44, 1173-1181.	0.4	61
147	Analysis of intracranial pressure waveform during infusion test. Acta Neurochirurgica, 1988, 93, 140-145.	0.9	59
148	Hydrodynamic properties of hydrocephalus shunts: United Kingdom Shunt Evaluation Laboratory.. Journal of Neurology, Neurosurgery and Psychiatry, 1997, 62, 43-50.	0.9	59
149	Changes in Cerebral Blood Flow during Cerebrospinal Fluid Pressure Manipulation in Patients with Normal Pressure Hydrocephalus: A Methodological Study. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 579-587.	2.4	59
150	Plateau Waves in Head Injured Patients Requiring Neurocritical Care. Neurocritical Care, 2009, 11, 143-150.	1.2	59
151	Temporal profile of intracranial pressure and cerebrovascular reactivity in severe traumatic brain injury and association with fatal outcome: An observational study. PLoS Medicine, 2017, 14, e1002353.	3.9	59
152	Predictive value of initial clinical status, intracranial pressure and transcranial Doppler pulsatility after subarachnoid haemorrhage. Acta Neurochirurgica, 2007, 149, 575-583.	0.9	58
153	The monitoring of relative changes in compartmental compliances of brain. Physiological Measurement, 2009, 30, 647-659.	1.2	58
154	The Limitations of Near-Infrared Spectroscopy to Assess Cerebrovascular Reactivity. Anesthesia and Analgesia, 2011, 113, 849-857.	1.1	58
155	What comes first? The dynamics of cerebral oxygenation and blood flow in response to changes in arterial pressure and intracranial pressure after head injury. British Journal of Anaesthesia, 2012, 108, 89-99.	1.5	58
156	Intraspinal pressure and spinal cord perfusion pressure after spinal cord injury: an observational study. Journal of Neurosurgery: Spine, 2015, 23, 763-771.	0.9	58
157	Impact of duration and magnitude of raised intracranial pressure on outcome after severe traumatic brain injury: A CENTER-TBI high-resolution group study. PLoS ONE, 2020, 15, e0243427.	1.1	58
158	Enhancement of cerebral blood flow using systemic hypertonic saline therapy improves outcome in patients with poor-grade spontaneous subarachnoid hemorrhage. Journal of Neurosurgery, 2007, 107, 274-282.	0.9	57
159	Cerebral Autoregulation among Patients with Symptoms of Hydrocephalus. Neurosurgery, 2002, 50, 526-533.	0.6	56
160	Prediction of Delayed Cerebral Ischemia After Subarachnoid Hemorrhage Using Cerebral Blood Flow Velocities and Cerebral Autoregulation Assessment. Neurocritical Care, 2015, 23, 253-258.	1.2	56
161	Univariate comparison of performance of different cerebrovascular reactivity indices for outcome association in adult TBI: a CENTER-TBI study. Acta Neurochirurgica, 2019, 161, 1217-1227.	0.9	56
162	Imaging normal pressure hydrocephalus: theories, techniques, and challenges. Neurosurgical Focus, 2016, 41, E11.	1.0	55

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163	Effects of Prone Position and Positive End-Expiratory Pressure on Noninvasive Estimators of ICP: A Pilot Study. Journal of Neurosurgical Anesthesiology, 2017, 29, 243-250.	0.6	55
164	Cerebrovascular Pressure Reactivity in Children With Traumatic Brain Injury*. Pediatric Critical Care Medicine, 2015, 16, 739-749.	0.2	54
165	Clinical assessment of cerebrospinal fluid dynamics in hydrocephalus. Guide to interpretation based on observational study. Acta Neurologica Scandinavica, 2011, 124, 85-98.	1.0	53
166	Between-centre variability in transfer function analysis, a widely used method for linear quantification of the dynamic pressureâ€“flow relation: The CARNet study. Medical Engineering and Physics, 2014, 36, 620-627.	0.8	53
167	A systematic review of cerebral microdialysis and outcomes in TBI: relationships to patient functional outcome, neurophysiologic measures, and tissue outcome. Acta Neurochirurgica, 2017, 159, 2245-2273.	0.9	53
168	Continuous cerebrovascular reactivity monitoring in moderate/severe traumatic brain injury: a narrative review of advances in neurocritical care. British Journal of Anaesthesia, 2020, 124, 440-453.	1.5	53
169	Continuous monitoring of cortical perfusion by laser Doppler flowmetry in ventilated patients with head injury.. Journal of Neurology, Neurosurgery and Psychiatry, 1994, 57, 1382-1388.	0.9	52
170	Continuous Monitoring of the Monro-Kellie Doctrine: Is It Possible?. Journal of Neurotrauma, 2012, 29, 1354-1363.	1.7	52
171	Intracranial pressure, its components and cerebrospinal fluid pressure-volume compensation. Acta Neurologica Scandinavica, 2016, 134, 168-180.	1.0	52
172	A comparison of non-invasive versus invasive measures of intracranial pressure in hypoxic ischaemic brain injury after cardiac arrest. Resuscitation, 2019, 137, 221-228.	1.3	52
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