

# Peter Smielewski

## List of Publications by Citations

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291  
papers

12,487  
citations

58  
h-index

104  
g-index

301  
ext. papers

15,167  
ext. citations

4.1  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
291	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology, The</i> , <b>2017</b> , 16, 987-1048	24.1	851
290	Continuous assessment of cerebral autoregulation with near-infrared spectroscopy in adults after subarachnoid hemorrhage. <i>Stroke</i> , <b>2010</b> , 41, 1963-8	6.7	643
289	Use of drains versus no drains after burr-hole evacuation of chronic subdural haematoma: a randomised controlled trial. <i>Lancet, The</i> , <b>2009</b> , 374, 1067-73	4.0	424
288	Continuous determination of optimal cerebral perfusion pressure in traumatic brain injury. <i>Critical Care Medicine</i> , <b>2012</b> , 40, 2456-63	1.4	348
287	Limbic hypometabolism in Alzheimer® disease and mild cognitive impairment. <i>Annals of Neurology</i> , <b>2003</b> , 54, 343-51	9.4	331
286	Diffusion limited oxygen delivery following head injury. <i>Critical Care Medicine</i> , <b>2004</b> , 32, 1384-90	1.4	328
285	Cerebral extracellular chemistry and outcome following traumatic brain injury: a microdialysis study of 223 patients. <i>Brain</i> , <b>2011</b> , 134, 484-94	11.2	278
284	Effect of hyperventilation on cerebral blood flow in traumatic head injury: clinical relevance and monitoring correlates. <i>Critical Care Medicine</i> , <b>2002</b> , 30, 1950-9	1.4	263
283	Real-time continuous monitoring of cerebral blood flow autoregulation using near-infrared spectroscopy in patients undergoing cardiopulmonary bypass. <i>Stroke</i> , <b>2010</b> , 41, 1951-6	6.7	259
282	Hyperventilation following head injury: effect on ischemic burden and cerebral oxidative metabolism. <i>Critical Care Medicine</i> , <b>2007</b> , 35, 568-78	1.4	244
281	Consensus statement from the 2014 International Microdialysis Forum. <i>Intensive Care Medicine</i> , <b>2015</b> , 41, 1517-28	14.5	197
280	Cerebrovascular reactivity measured by near-infrared spectroscopy. <i>Stroke</i> , <b>2009</b> , 40, 1820-6	6.7	177
279	Effect of hyperoxia on regional oxygenation and metabolism after severe traumatic brain injury: preliminary findings. <i>Critical Care Medicine</i> , <b>2008</b> , 36, 273-81	1.4	176
278	Impairment of cerebral autoregulation predicts delayed cerebral ischemia after subarachnoid hemorrhage: a prospective observational study. <i>Stroke</i> , <b>2012</b> , 43, 3230-7	6.7	174
277	Transcranial Doppler pulsatility index: what it is and what it isn't. <i>Neurocritical Care</i> , <b>2012</b> , 17, 58-66	3.3	169
276	Severe traumatic brain injury: targeted management in the intensive care unit. <i>Lancet Neurology, The</i> , <b>2017</b> , 16, 452-464	24.1	165
275	Cerebral perfusion in sepsis-associated delirium. <i>Critical Care</i> , <b>2008</b> , 12, R63	10.8	161

274	Effect of cerebral perfusion pressure augmentation on regional oxygenation and metabolism after head injury. <i>Critical Care Medicine</i> , <b>2005</b> , 33, 189-95; discussion 255-7	1.4	161
273	Assessment of cerebrovascular autoregulation in head-injured patients: a validation study. <i>Stroke</i> , <b>2003</b> , 34, 2404-9	6.7	154
272	Effect of decompressive craniectomy on intracranial pressure and cerebrospinal compensation following traumatic brain injury. <i>Journal of Neurosurgery</i> , <b>2008</b> , 108, 66-73	3.2	152
271	Defining ischemic burden after traumatic brain injury using 15O PET imaging of cerebral physiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2004</b> , 24, 191-201	7.3	151
270	Near-infrared spectroscopy can monitor dynamic cerebral autoregulation in adults. <i>Neurocritical Care</i> , <b>2009</b> , 10, 122-8	3.3	144
269	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. <i>Lancet Neurology</i> , <b>2019</b> , 18, 923-934	24.1	139
268	Continuous monitoring of cerebrovascular pressure reactivity in patients with head injury. <i>Neurosurgical Focus</i> , <b>2008</b> , 25, E2	4.2	138
267	Clinical relevance of cerebral autoregulation following subarachnoid haemorrhage. <i>Nature Reviews Neurology</i> , <b>2013</b> , 9, 152-63	15	131
266	Predictive value of initial computerized tomography scan, intracranial pressure, and state of autoregulation in patients with traumatic brain injury. <i>Journal of Neurosurgery</i> , <b>2006</b> , 104, 731-7	3.2	114
265	Regulation of the cerebral circulation: bedside assessment and clinical implications. <i>Critical Care</i> , <b>2016</b> , 20, 129	10.8	114
264	Noninvasive monitoring of cerebrovascular reactivity with near infrared spectroscopy in head-injured patients. <i>Journal of Neurotrauma</i> , <b>2010</b> , 27, 1951-8	5.4	111
263	Impaired autoregulation of cerebral blood flow during rewarming from hypothermic cardiopulmonary bypass and its potential association with stroke. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 110, 321-8	3.9	109
262	Optic nerve sheath diameter on computed tomography is correlated with simultaneously measured intracranial pressure in patients with severe traumatic brain injury. <i>Intensive Care Medicine</i> , <b>2014</b> , 40, 1267-74	14.5	107
261	Reliability of the blood flow velocity pulsatility index for assessment of intracranial and cerebral perfusion pressures in head-injured patients. <i>Neurosurgery</i> , <b>2012</b> , 71, 853-61	3.2	106
260	Assessment of cerebral autoregulation using carotid artery compression. <i>Stroke</i> , <b>1996</b> , 27, 2197-203	6.7	104
259	Predicting delayed ischemic deficits after aneurysmal subarachnoid hemorrhage using a transient hyperemic response test of cerebral autoregulation. <i>Neurosurgery</i> , <b>2000</b> , 47, 819-25; discussions 825-6	3.2	103
258	Critical thresholds for transcranial Doppler indices of cerebral autoregulation in traumatic brain injury. <i>Neurocritical Care</i> , <b>2011</b> , 14, 188-93	3.3	100
257	Monitoring of spinal cord perfusion pressure in acute spinal cord injury: initial findings of the injured spinal cord pressure evaluation study*. <i>Critical Care Medicine</i> , <b>2014</b> , 42, 646-55	1.4	99

256	Continuous monitoring of cerebrovascular pressure reactivity after traumatic brain injury in children. <i>Pediatrics</i> , <b>2009</b> , 124, e1205-12	7.4	95
255	Assessment of cerebrospinal fluid outflow resistance. <i>Medical and Biological Engineering and Computing</i> , <b>2007</b> , 45, 719-35	3.1	93
254	Can cerebrovascular reactivity be measured with near-infrared spectroscopy?. <i>Stroke</i> , <b>1995</b> , 26, 2285-92	6.7	91
253	Patient-specific thresholds of intracranial pressure in severe traumatic brain injury. <i>Journal of Neurosurgery</i> , <b>2014</b> , 120, 893-900	3.2	87
252	The relationship between cerebral blood flow autoregulation and cerebrovascular pressure reactivity after traumatic brain injury. <i>Neurosurgery</i> , <b>2012</b> , 71, 652-60; discussion 660-1	3.2	86
251	Intracranial pressure: more than a number. <i>Neurosurgical Focus</i> , <b>2007</b> , 22, E10	4.2	78
250	Cerebral blood flow and cerebrovascular autoregulation in a swine model of pediatric cardiac arrest and hypothermia. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 2337-45	1.4	77
249	Intersubject variability and reproducibility of 15O PET studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2006</b> , 26, 48-57	7.3	77
248	Optimal Cerebral Perfusion Pressure Management at Bedside: A Single-Center Pilot Study. <i>Neurocritical Care</i> , <b>2015</b> , 23, 92-102	3.3	75
247	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. <i>Critical Care Medicine</i> , <b>2017</b> , 45, 1464-1471	1.4	72
246	Monitoring cerebral autoregulation after head injury. Which component of transcranial Doppler flow velocity is optimal?. <i>Neurocritical Care</i> , <b>2012</b> , 17, 211-8	3.3	71
245	Clinical evaluation of near-infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. <i>Stroke</i> , <b>1997</b> , 28, 331-8	6.7	71
244	Impaired cerebral autoregulation: measurement and application to stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2017</b> , 88, 520-531	5.5	69
243	Continuous monitoring of cerebrovascular reactivity using pulse waveform of intracranial pressure. <i>Neurocritical Care</i> , <b>2012</b> , 17, 67-76	3.3	68
242	Cerebral autoregulation after subarachnoid hemorrhage: comparison of three methods. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 449-56	7.3	67
241	What shapes pulse amplitude of intracranial pressure?. <i>Journal of Neurotrauma</i> , <b>2010</b> , 27, 317-24	5.4	65
240	The lower limit of cerebral blood flow autoregulation is increased with elevated intracranial pressure. <i>Anesthesia and Analgesia</i> , <b>2009</b> , 108, 1278-83	3.9	64
239	Predictors of Outcome With Cerebral Autoregulation Monitoring: A Systematic Review and Meta-Analysis. <i>Critical Care Medicine</i> , <b>2017</b> , 45, 695-704	1.4	61

238	Critical closing pressure determined with a model of cerebrovascular impedance. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 235-43	7.3	61
237	Index of cerebrospinal compensatory reserve in hydrocephalus. <i>Neurosurgery</i> , <b>2009</b> , 64, 494-501; discussion 501-2	3.2	61
236	Responses of posttraumatic pericontusional cerebral blood flow and blood volume to an increase in cerebral perfusion pressure. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2003</b> , 23, 1371-7	7.3	61
235	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. <i>Brain</i> , <b>2012</b> , 135, 2399-408	11.2	59
234	"Optimal cerebral perfusion pressure" in poor grade patients after subarachnoid hemorrhage. <i>Neurocritical Care</i> , <b>2010</b> , 13, 17-23	3.3	59
233	Comparison of frequency and time domain methods of assessment of cerebral autoregulation in traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 248-56	7.3	56
232	Magnetic field interactions in adjustable hydrocephalus shunts. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2008</b> , 2, 222-8	2.1	56
231	Renovascular reactivity measured by near-infrared spectroscopy. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 307-14	3.7	54
230	Feasibility of individualised severe traumatic brain injury management using an automated assessment of optimal cerebral perfusion pressure: the COGiTATE phase II study protocol. <i>BMJ Open</i> , <b>2019</b> , 9, e030727	3	54
229	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 792-802	5.4	53
228	Twenty-Five Years of Intracranial Pressure Monitoring After Severe Traumatic Brain Injury: A Retrospective, Single-Center Analysis. <i>Neurosurgery</i> , <b>2019</b> , 85, E75-E82	3.2	53
227	Critical Thresholds of Intracranial Pressure-Derived Continuous Cerebrovascular Reactivity Indices for Outcome Prediction in Noncraniectomized Patients with Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 1107-1115	5.4	53
226	Internal and external carotid contributions to near-infrared spectroscopy during carotid endarterectomy. <i>Stroke</i> , <b>1997</b> , 28, 906-11	6.7	49
225	Continuous time-domain monitoring of cerebral autoregulation in neurocritical care. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 638-45	2.4	48
224	The Burden of Brain Hypoxia and Optimal Mean Arterial Pressure in Patients With Hypoxic Ischemic Brain Injury After Cardiac Arrest. <i>Critical Care Medicine</i> , <b>2019</b> , 47, 960-969	1.4	48
223	The limitations of near-infrared spectroscopy to assess cerebrovascular reactivity: the role of slow frequency oscillations. <i>Anesthesia and Analgesia</i> , <b>2011</b> , 113, 849-57	3.9	47
222	Continuous Autoregulatory Indices Derived from Multi-Modal Monitoring: Each One Is Not Like the Other. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 3070-3080	5.4	44
221	Temporal profile of intracranial pressure and cerebrovascular reactivity in severe traumatic brain injury and association with fatal outcome: An observational study. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002353	11.6	44

220	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part II: A Scoping Review of Continuous Methods. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 3224-3237	5.4	44
219	The monitoring of relative changes in compartmental compliances of brain. <i>Physiological Measurement</i> , <b>2009</b> , 30, 647-59	2.9	44
218	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 1173-81	1.4	44
217	Intraspinal pressure and spinal cord perfusion pressure after spinal cord injury: an observational study. <i>Journal of Neurosurgery: Spine</i> , <b>2015</b> , 23, 763-71	2.8	43
216	Noninvasive autoregulation monitoring in a swine model of pediatric cardiac arrest. <i>Anesthesia and Analgesia</i> , <b>2012</b> , 114, 825-36	3.9	43
215	Between-centre variability in transfer function analysis, a widely used method for linear quantification of the dynamic pressure-flow relation: the CARNet study. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 620-7	2.4	42
214	Sustained moderate reductions in arterial CO <sub>2</sub> after brain trauma time-course of cerebral blood flow velocity and intracranial pressure. <i>Intensive Care Medicine</i> , <b>2004</b> , 30, 2180-7	14.5	42
213	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. <i>Resuscitation</i> , <b>2016</b> , 106, 120-5	4	41
212	The frequency response of cerebral autoregulation. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 52-6	3.7	40
211	Univariate comparison of performance of different cerebrovascular reactivity indices for outcome association in adult TBI: a CENTER-TBI study. <i>Acta Neurochirurgica</i> , <b>2019</b> , 161, 1217-1227	3	37
210	A noninvasive estimation of cerebral perfusion pressure using critical closing pressure. <i>Journal of Neurosurgery</i> , <b>2015</b> , 123, 638-48	3.2	37
209	Monitoring of Cerebrovascular Reactivity for Determination of Optimal Blood Pressure in Preterm Infants. <i>Journal of Pediatrics</i> , <b>2015</b> , 167, 86-91	3.6	37
208	Validation of Pressure Reactivity and Pulse Amplitude Indices against the Lower Limit of Autoregulation, Part I: Experimental Intracranial Hypertension. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 2803-2811	5.4	35
207	Continuous Multimodality Monitoring in Children after Traumatic Brain Injury-Preliminary Experience. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148817	3.7	35
206	Cessation of diastolic cerebral blood flow velocity: the role of critical closing pressure. <i>Neurocritical Care</i> , <b>2014</b> , 20, 40-8	3.3	34
205	Bilateral failure of cerebral autoregulation is related to unfavorable outcome after subarachnoid hemorrhage. <i>Neurocritical Care</i> , <b>2015</b> , 22, 65-73	3.3	32
204	Cerebrovascular pressure reactivity monitoring using wavelet analysis in traumatic brain injury patients: A retrospective study. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002348	11.6	32
203	Noninvasive autoregulation monitoring with and without intracranial pressure in the naive piglet brain. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 111, 191-5	3.9	32

202	The Effect of Red Blood Cell Transfusion on Cerebral Autoregulation in Patients with Severe Traumatic Brain Injury. <i>Neurocritical Care</i> , <b>2015</b> , 23, 210-6	3-3	31
201	Doppler Non-invasive Monitoring of ICP in an Animal Model of Acute Intracranial Hypertension. <i>Neurocritical Care</i> , <b>2015</b> , 23, 419-26	3-3	31
200	Validation of Intracranial Pressure-Derived Cerebrovascular Reactivity Indices against the Lower Limit of Autoregulation, Part II: Experimental Model of Arterial Hypotension. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 2812-2819	5-4	31
199	Comparison of Performance of Different Optimal Cerebral Perfusion Pressure Parameters for Outcome Prediction in Adult Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 1505-1517	5-4	31
198	A Description of a New Continuous Physiological Index in Traumatic Brain Injury Using the Correlation between Pulse Amplitude of Intracranial Pressure and Cerebral Perfusion Pressure. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 963-974	5-4	31
197	Critical closing pressure during intracranial pressure plateau waves. <i>Neurocritical Care</i> , <b>2013</b> , 18, 341-8	3-3	30
196	Post-traumatic multimodal brain monitoring: response to hypertonic saline. <i>Journal of Neurotrauma</i> , <b>2014</b> , 31, 1872-80	5-4	30
195	Vasospasm shortens cerebral arterial time constant. <i>Neurocritical Care</i> , <b>2012</b> , 16, 213-8	3-3	30
194	A comparison of non-invasive versus invasive measures of intracranial pressure in hypoxic ischaemic brain injury after cardiac arrest. <i>Resuscitation</i> , <b>2019</b> , 137, 221-228	4	29
193	Model-based indices describing cerebrovascular dynamics. <i>Neurocritical Care</i> , <b>2014</b> , 20, 142-57	3-3	29
192	Effect of hyper- and hypocapnia on cerebral arterial compliance in normal subjects. <i>Journal of Neuroimaging</i> , <b>2011</b> , 21, 121-5	2.8	29
191	Reactivity of brain tissue oxygen to change in cerebral perfusion pressure in head injured patients. <i>Neurocritical Care</i> , <b>2009</b> , 10, 274-9	3-3	29
190	Continuous Monitoring and Visualization of Optimum Spinal Cord Perfusion Pressure in Patients with Acute Cord Injury. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 2941-2949	5-4	28
189	Cerebrovascular reactivity is not associated with therapeutic intensity in adult traumatic brain injury: a CENTER-TBI analysis. <i>Acta Neurochirurgica</i> , <b>2019</b> , 161, 1955-1964	3	28
188	Positive end-expiratory pressure oscillation facilitates brain vascular reactivity monitoring. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 1362-8	3-7	28
187	Monitoring of Optimal Cerebral Perfusion Pressure in Traumatic Brain Injured Patients Using a Multi-Window Weighting Algorithm. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 3081-3088	5-4	27
186	Kidney-brain link in traumatic brain injury patients? A preliminary report. <i>Neurocritical Care</i> , <b>2015</b> , 22, 192-201	3-3	27
185	Transcranial Doppler Systolic Flow Index and ICP-Derived Cerebrovascular Reactivity Indices in Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 314-322	5-4	27

184	Cerebrovascular Signal Complexity Six Hours after Intensive Care Unit Admission Correlates with Outcome after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 2011-2018	5.4	27
183	Early Asymmetric Cardio-Cerebral Causality and Outcome after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 2743-2752	5.4	26
182	Continuous cerebrovascular reactivity monitoring in moderate/severe traumatic brain injury: a narrative review of advances in neurocritical care. <i>British Journal of Anaesthesia</i> , <b>2020</b> ,	5.4	26
181	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part I: A Scoping Review of Intermittent/Semi-Intermittent Methods. <i>Journal of Neurotrauma</i> , <b>2017</b> , 34, 3207-3223	5.4	26
180	Clinical and Physiological Events That Contribute to the Success Rate of Finding "Optimal" Cerebral Perfusion Pressure in Severe Brain Trauma Patients. <i>Critical Care Medicine</i> , <b>2015</b> , 43, 1952-63	1.4	26
179	Association between Cerebrovascular Reactivity Monitoring and Mortality Is Preserved When Adjusting for Baseline Admission Characteristics in Adult Traumatic Brain Injury: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1233-1241	5.4	25
178	Patient-specific ICP Epidemiologic Thresholds in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2021</b> , 33, 28-38	3	25
177	Transcranial Doppler Monitoring of Intracranial Pressure Plateau Waves. <i>Neurocritical Care</i> , <b>2017</b> , 26, 330-338	3.3	24
176	Time constant of the cerebral arterial bed in normal subjects. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 1129-37	3.5	24
175	Time constant of the cerebral arterial bed. <i>Acta Neurochirurgica Supplementum</i> , <b>2012</b> , 114, 17-21	1.7	24
174	Non-invasively estimated ICP pulse amplitude strongly correlates with outcome after TBI. <i>Acta Neurochirurgica Supplementum</i> , <b>2012</b> , 114, 121-5	1.7	23
173	Enhanced Visualization of Optimal Cerebral Perfusion Pressure Over Time to Support Clinical Decision Making. <i>Critical Care Medicine</i> , <b>2016</b> , 44, e996-9	1.4	23
172	A comparison study of cerebral autoregulation assessed with transcranial Doppler and cortical laser Doppler flowmetry. <i>Neurological Research</i> , <b>2010</b> , 32, 425-8	2.7	22
171	Intracranial and Extracranial Injury Burden as Drivers of Impaired Cerebrovascular Reactivity in Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 1569-1577	5.4	21
170	Genetic drivers of cerebral blood flow dysfunction in TBI: a speculative synthesis. <i>Nature Reviews Neurology</i> , <b>2019</b> , 15, 25-39	15	21
169	Cerebral haemodynamics during experimental intracranial hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 694-705	7.3	20
168	Increased blood glucose is related to disturbed cerebrovascular pressure reactivity after traumatic brain injury. <i>Neurocritical Care</i> , <b>2015</b> , 22, 20-5	3.3	20
167	Non-invasive Intracranial Pressure Assessment in Brain Injured Patients Using Ultrasound-Based Methods. <i>Acta Neurochirurgica Supplementum</i> , <b>2018</b> , 126, 69-73	1.7	20



166	Integrated image analysis solutions for PET datasets in damaged brain. <i>Journal of Clinical Monitoring and Computing</i> , <b>2002</b> , 17, 427-40	2	20
165	Short pressure reactivity index versus long pressure reactivity index in the management of traumatic brain injury. <i>Journal of Neurosurgery</i> , <b>2015</b> , 122, 588-94	3.2	19
164	ICM+: a versatile software for assessment of CSF dynamics. <i>Acta Neurochirurgica Supplementum</i> , <b>2012</b> , 114, 75-9	1.7	19
163	Pressures, flow, and brain oxygenation during plateau waves of intracranial pressure. <i>Neurocritical Care</i> , <b>2014</b> , 21, 124-32	3.3	18
162	Critical closing pressure: comparison of three methods. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 987-93	7.3	18
161	A synopsis of brain pressures: which? when? are they all useful?. <i>Neurological Research</i> , <b>2007</b> , 29, 672-9	2.7	18
160	. <i>Journal of Clinical Monitoring and Computing</i> , <b>1997</b> , 14, 185-198		18
159	Measurement of Intraspinal Pressure After Spinal Cord Injury: Technical Note from the Injured Spinal Cord Pressure Evaluation Study. <i>Acta Neurochirurgica Supplementum</i> , <b>2016</b> , 122, 323-8	1.7	18
158	Brain Tissue Oxygen and Cerebrovascular Reactivity in Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Exploratory Analysis of Insult Burden. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1854-1863	5.4	17
157	Estimating Pressure Reactivity Using Noninvasive Doppler-Based Systolic Flow Index. <i>Journal of Neurotrauma</i> , <b>2018</b> , 35, 1559-1568	5.4	17
156	Non-Invasive Pressure Reactivity Index Using Doppler Systolic Flow Parameters: A Pilot Analysis. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 713-720	5.4	17
155	Relationship of vascular wall tension and autoregulation following traumatic brain injury. <i>Neurocritical Care</i> , <b>2014</b> , 21, 266-74	3.3	17
154	Transient changes in brain tissue oxygen in response to modifications of cerebral perfusion pressure: an observational study. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 110, 165-73	3.9	16
153	Monitoring of the association between cerebral blood flow velocity and intracranial pressure. <i>Acta Neurochirurgica Supplementum</i> , <b>2012</b> , 114, 147-51	1.7	16
152	Validation of a New Noninvasive Intracranial Pressure Monitoring Method by Direct Comparison with an Invasive Technique. <i>Acta Neurochirurgica Supplementum</i> , <b>2016</b> , 122, 93-6	1.7	16
151	Observation of Autoregulation Indices During Ventricular CSF Drainage After Aneurysmal Subarachnoid Hemorrhage: A Pilot Study. <i>Neurocritical Care</i> , <b>2015</b> , 23, 347-54	3.3	15
150	Principles of cerebral hemodynamics when intracranial pressure is raised: lessons from the peripheral circulation. <i>Journal of Hypertension</i> , <b>2015</b> , 33, 1233-41	1.9	15
149	Relationship Between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute TBI Patients: an Exploratory Analysis. <i>Neurocritical Care</i> , <b>2020</b> , 32, 373-382	3.3	15

148	Elevated Diastolic Closing Margin Is Associated with Intraventricular Hemorrhage in Premature Infants. <i>Journal of Pediatrics</i> , <b>2016</b> , 174, 52-6	3.6	15
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16	External Hydrocephalus After Traumatic Brain Injury: Retrospective Study of 102 Patients. <i>Acta Neurochirurgica Supplementum</i> , <b>2021</b> , 131, 35-38	1.7	o
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- 3 Impact of duration and magnitude of raised intracranial pressure on outcome after severe traumatic brain injury: A CENTER-TBI high-resolution group study **2020**, 15, e0243427
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