

Peter Smielewski

List of Publications by Year in descending order

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297
papers

17,459
citations

15466

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301
all docs

301
docs citations

301
times ranked

9784
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Brain-Heart Crosstalk Information in Patients with Traumatic Brain Injury. <i>Neurocritical Care</i> , 2022, 36, 738-750.	1.2	7
2	Technical considerations on the use of Granger causality in neuromonitoring. <i>Brain Multiphysics</i> , 2022, 3, 100044.	0.8	1
3	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation. <i>Lancet Neurology</i> , The, 2022, 21, 153-162.	4.9	34
4	Feasibility of non-invasive neuromonitoring in general intensive care patients using a multi-parameter transcranial Doppler approach. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 1805-1815.	0.7	1
5	Clinical determinants of cerebrovascular reactivity in very preterm infants during the transitional period. <i>Pediatric Research</i> , 2022, 92, 135-141.	1.1	5
6	Serum metabolome associated with severity of acute traumatic brain injury. <i>Nature Communications</i> , 2022, 13, 2545.	5.8	29
7	Comparison of different metrics of cerebral autoregulation in association with major morbidity and mortality after cardiac surgery. <i>British Journal of Anaesthesia</i> , 2022, 129, 22-32.	1.5	6
8	Comparative effectiveness of intracranial hypertension management guided by ventricular versus intraparenchymal pressure monitoring: a CENTER-TBI study. <i>Acta Neurochirurgica</i> , 2022, 164, 1693-1705.	0.9	7
9	Inducing oscillations in positive end-expiratory pressure improves assessment of cerebrovascular pressure reactivity in patients with traumatic brain injury. <i>Journal of Applied Physiology</i> , 2022, 133, 585-592.	1.2	4
10	Association Between Physiologic Signal Complexity and Outcomes in Moderate and Severe Traumatic Brain Injury: A CENTER-TBI Exploratory Analysis of Multiscale Entropy. <i>Journal of Neurotrauma</i> , 2021, 38, 272-282.	1.7	16
11	Evaluation of the relationship between slow-waves of intracranial pressure, mean arterial pressure and brain tissue oxygen in TBI: a CENTER-TBI exploratory analysis. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 711-722.	0.7	14
12	Visualising the pressure-time burden of elevated intracranial pressure after severe traumatic brain injury: a retrospective confirmatory study. <i>British Journal of Anaesthesia</i> , 2021, 126, e15-e17.	1.5	14
13	Continuous Monitoring of Cerebral Autoregulation in Children Supported by Extracorporeal Membrane Oxygenation: A Pilot Study. <i>Neurocritical Care</i> , 2021, 34, 935-945.	1.2	26
14	Autonomic Nervous System Activity during Refractory Rise in Intracranial Pressure. <i>Journal of Neurotrauma</i> , 2021, 38, 1662-1669.	1.7	6
15	The Effect of Temperature Increases on Brain Tissue Oxygen Tension in Patients with Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Substudy. <i>Therapeutic Hypothermia and Temperature Management</i> , 2021, 11, 122-131.	0.3	3
16	Systemic Markers of Injury and Injury Response Are Not Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A Collaborative European Neurotrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. <i>Journal of Neurotrauma</i> , 2021, 38, 870-878.	1.7	13
17	Patient-specific ICP Epidemiologic Thresholds in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. <i>Journal of Neurosurgical Anesthesiology</i> , 2021, 33, 28-38.	0.6	47
18	Errors and Consequences of Inaccurate Estimation of Mean Blood Flow Velocity in Cerebral Arteries. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 23-25.	0.5	0

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19	Patient's Clinical Presentation and CPPopt Availability: Any Association?. Acta Neurochirurgica Supplementum, 2021, 131, 167-172.	0.5	2
20	Comparison of Two Intracranial Pressure Calculation Methods and Their Effects on the Mean Intracranial Pressure and Intracranial Pressure Dose. Acta Neurochirurgica Supplementum, 2021, 131, 31-33.	0.5	1
21	Optimal Cerebral Perfusion Pressure Assessed with a Multi-Window Weighted Approach Adapted for Prospective Use: A Validation Study. Acta Neurochirurgica Supplementum, 2021, 131, 181-185.	0.5	7
22	Cerebrovascular Consequences of Elevated Intracranial Pressure After Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2021, 131, 43-48.	0.5	6
23	Automatic Pulse Classification for Artefact Removal Using SAX Strings, a CENTER-TBI Study. Acta Neurochirurgica Supplementum, 2021, 131, 231-234.	0.5	0
24	Lower Limit of Reactivity Assessed with PRx in an Experimental Setting. Acta Neurochirurgica Supplementum, 2021, 131, 275-278.	0.5	9
25	DeepClean: Self-Supervised Artefact Rejection for Intensive Care Waveform Data Using Deep Generative Learning. Acta Neurochirurgica Supplementum, 2021, 131, 235-241.	0.5	4
26	An Update on the COGiTATE Phase II Study: Feasibility and Safety of Targeting an Optimal Cerebral Perfusion Pressure as a Patient-Tailored Therapy in Severe Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2021, 131, 143-147.	0.5	12
27	Spectral Cerebral Blood Volume Accounting for Noninvasive Estimation of Changes in Cerebral Perfusion Pressure in Patients with Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2021, 131, 193-199.	0.5	1
28	Visualization of Intracranial Pressure Insults After Severe Traumatic Brain Injury: Influence of Individualized Limits of Reactivity. Acta Neurochirurgica Supplementum, 2021, 131, 7-10.	0.5	2
29	Methodological Consideration on Monitoring Refractory Intracranial Hypertension and Autonomic Nervous System Activity. Acta Neurochirurgica Supplementum, 2021, 131, 211-215.	0.5	1
30	Delay of cerebral autoregulation in traumatic brain injury patients. Clinical Neurology and Neurosurgery, 2021, 202, 106478.	0.6	3
31	Association of transcranial Doppler blood flow velocity slow waves with delayed cerebral ischemia in patients suffering from subarachnoid hemorrhage: a retrospective study. Intensive Care Medicine Experimental, 2021, 9, 11.	0.9	6
32	Impact of Arterial Carbon Dioxide and Oxygen Content on Cerebral Autoregulation Monitoring Among Children Supported by ECMO. Neurocritical Care, 2021, 35, 480-490.	1.2	7
33	CSF Dynamics for Shunt Prognostication and Revision in Normal Pressure Hydrocephalus. Journal of Clinical Medicine, 2021, 10, 1711.	1.0	3
34	Compliance of the cerebrospinal space: comparison of three methods. Acta Neurochirurgica, 2021, 163, 1979-1989.	0.9	27
35	Cerebral autoregulation in the operating room and intensive care unit after cardiac surgery. British Journal of Anaesthesia, 2021, 126, 967-974.	1.5	18
36	Brain Temperature Influences Intracranial Pressure and Cerebral Perfusion Pressure After Traumatic Brain Injury: A CENTER-TBI Study. Neurocritical Care, 2021, 35, 651-661.	1.2	15

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37	Management of arterial partial pressure of carbon dioxide in the first week after traumatic brain injury: results from the CENTER-TBI study. <i>Intensive Care Medicine</i> , 2021, 47, 961-973.	3.9	11
38	Targeting Autoregulation-Guided Cerebral Perfusion Pressure after Traumatic Brain Injury (COGITATE): A Feasibility Randomized Controlled Clinical Trial. <i>Journal of Neurotrauma</i> , 2021, 38, 2790-2800.	1.7	88
39	Midline shift in patients with closed traumatic brain injury may be driven by cerebral perfusion pressure not intracranial pressure. <i>Journal of Neurosurgical Sciences</i> , 2021, 65, 383-390.	0.3	5
40	External Hydrocephalus After Traumatic Brain Injury: Retrospective Study of 102 Patients. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 35-38.	0.5	3
41	Usability of Noninvasive Counterparts of Traditional Autoregulation Indices in Traumatic Brain Injury. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 163-166.	0.5	0
42	Analysis of Cardio-Cerebral Crosstalk Events in an Adult Cohort from the CENTER-TBI Study. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 39-42.	0.5	2
43	Python-Embedded Plugin Implementation in ICM+: Novel Tools for Neuromonitoring Time Series Analysis with Examples Using CENTER-TBI Datasets. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 255-260.	0.5	0
44	Optimal Cerebral Perfusion Pressure Based on Intracranial Pressure-Derived Indices of Cerebrovascular Reactivity: Which One Is Better for Outcome Prediction in Moderate/Severe Traumatic Brain Injury?. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 173-179.	0.5	2
45	Determining Thresholds for Three Indices of Autoregulation to Identify the Lower Limit of Autoregulation During Cardiac Surgery*. <i>Critical Care Medicine</i> , 2021, 49, 650-660.	0.4	20
46	Causal relationship between slow waves of arterial, intracranial pressures and blood velocity in brain. <i>Computers in Biology and Medicine</i> , 2021, 139, 104970.	3.9	10
47	Relationship Between Baroreflex and Cerebral Autoregulation in Patients With Cerebral Vasospasm After Aneurysmal Subarachnoid Hemorrhage. <i>Frontiers in Neurology</i> , 2021, 12, 740338.	1.1	2
48	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. <i>Neurocritical Care</i> , 2021, , 1.	1.2	3
49	Characterising the dynamics of cerebral metabolic dysfunction following traumatic brain injury: A microdialysis study in 619 patients. <i>PLoS ONE</i> , 2021, 16, e0260291.	1.1	23
50	Observations on the Cerebral Effects of Refractory Intracranial Hypertension After Severe Traumatic Brain Injury. <i>Neurocritical Care</i> , 2020, 32, 437-447.	1.2	18
51	Hypocapnia after traumatic brain injury: how does it affect the time constant of the cerebral circulation?. <i>Journal of Clinical Monitoring and Computing</i> , 2020, 34, 461-468.	0.7	7
52	Optic nerve sheath diameter ultrasonography at admission as a predictor of intracranial hypertension in traumatic brain injured patients: a prospective observational study. <i>Journal of Neurosurgery</i> , 2020, 132, 1279-1285.	0.9	30
53	Burden of hypoxia and intraventricular haemorrhage in extremely preterm infants. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2020, 105, 242-247.	1.4	13
54	Influence of mild-moderate hypocapnia on intracranial pressure slow waves activity in TBI. <i>Acta Neurochirurgica</i> , 2020, 162, 345-356.	0.9	6

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55	Relationship Between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute TBI Patients: an Exploratory Analysis. <i>Neurocritical Care</i> , 2020, 32, 373-382.	1.2	21
56	Signal Information Prediction of Mortality Identifies Unique Patient Subsets after Severe Traumatic Brain Injury: A Decision-Tree Analysis Approach. <i>Journal of Neurotrauma</i> , 2020, 37, 1011-1019.	1.7	12
57	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> , 2020, 37, 1233-1241.	1.7	50
58	Validation of non-invasive cerebrovascular pressure reactivity and pulse amplitude reactivity indices in traumatic brain injury. <i>Acta Neurochirurgica</i> , 2020, 162, 337-344.	0.9	5
59	Near-Infrared Spectroscopy to Assess Cerebral Autoregulation and Optimal Mean Arterial Pressure in Patients With Hypoxic-Ischemic Brain Injury: A Prospective Multicenter Feasibility Study. , 2020, 2, e0217.		12
60	Introducing brain-heart crosstalks information in clinical decision support systems for TBI patients, through ICM+. , 2020, , .		0
61	Heart rate entropy is associated with mortality after intracerebral hemorrhage. <i>Journal of the Neurological Sciences</i> , 2020, 418, 117033.	0.3	8
62	Descriptive analysis of low versus elevated intracranial pressure on cerebral physiology in adult traumatic brain injury: a CENTER-TBI exploratory study. <i>Acta Neurochirurgica</i> , 2020, 162, 2695-2706.	0.9	13
63	Transcranial Doppler-derived indices of cerebrovascular haemodynamics are independent of depth and angle of insonation. <i>Journal of Clinical Neuroscience</i> , 2020, 82, 115-121.	0.8	3
64	Intracranial Pressure Monitoring in Head Injury. , 2020, , 110-131.		1
65	Low-resolution pressure reactivity index and its derived optimal cerebral perfusion pressure in adult traumatic brain injury: a CENTER-TBI study. <i>Critical Care</i> , 2020, 24, 266.	2.5	20
66	Assessment of cerebral autoregulation indices " a modelling perspective. <i>Scientific Reports</i> , 2020, 10, 9600.	1.6	19
67	Treatment targets based on autoregulation parameters in neurocritical care patients. <i>Current Opinion in Critical Care</i> , 2020, 26, 109-114.	1.6	17
68	Diffuse Intracranial Injury Patterns Are Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. <i>Journal of Neurotrauma</i> , 2020, 37, 1597-1608.	1.7	17
69	Predictive and Discriminative Power of Pressure Reactivity Indices in Traumatic Brain Injury. <i>Neurosurgery</i> , 2020, 87, 655-663.	0.6	17
70	Cardiovascular and cerebrovascular responses to cardiorespiratory events in preterm infants during the transitional period. <i>Journal of Physiology</i> , 2020, 598, 4107-4119.	1.3	6
71	Continuous cerebrovascular reactivity monitoring in moderate/severe traumatic brain injury: a narrative review of advances in neurocritical care. <i>British Journal of Anaesthesia</i> , 2020, 124, 440-453.	1.5	53
72	Statistical Cerebrovascular Reactivity Signal Properties after Secondary Decompressive Craniectomy in Traumatic Brain Injury: A CENTER-TBI Pilot Analysis. <i>Journal of Neurotrauma</i> , 2020, 37, 1306-1314.	1.7	23

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73	Relationship between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute Traumatic Brain Injury Patients: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , 2020, 37, 1556-1565.	1.7	16
74	Comparison of wavelet and correlation indices of cerebral autoregulation in a pediatric swine model of cardiac arrest. <i>Scientific Reports</i> , 2020, 10, 5926.	1.6	9
75	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> , 2020, 37, 1854-1863.	1.7	29
76	Robotic Semi-Automated Transcranial Doppler Assessment of Cerebrovascular Autoregulation in Post-Concussion Syndrome: Methodological Considerations. <i>Neurotrauma Reports</i> , 2020, 1, 218-231.	0.5	7
77	Impact of duration and magnitude of raised intracranial pressure on outcome after severe traumatic brain injury: A CENTER-TBI high-resolution group study. <i>PLoS ONE</i> , 2020, 15, e0243427.	1.1	58
78	Artifact removal from neurophysiological signals: impact on intracranial and arterial pressure monitoring in traumatic brain injury. <i>Journal of Neurosurgery</i> , 2020, 132, 1952-1960.	0.9	12
79	Cardiorespiratory Events in Infants Born Preterm during the Transitional Period. <i>Journal of Pediatrics</i> , 2020, 221, 32-38.e2.	0.9	0
80	Title is missing!. , 2020, 15, e0243427.		0
81	Title is missing!. , 2020, 15, e0243427.		0
82	Title is missing!. , 2020, 15, e0243427.		0
83	Title is missing!. , 2020, 15, e0243427.		0
84	Non-Invasive Pressure Reactivity Index Using Doppler Systolic Flow Parameters: A Pilot Analysis. <i>Journal of Neurotrauma</i> , 2019, 36, 713-720.	1.7	27
85	Can interhemispheric desynchronization of cerebral blood flow anticipate upcoming vasospasm in aneurysmal subarachnoid haemorrhage patients?. <i>Journal of Neuroscience Methods</i> , 2019, 325, 108358.	1.3	1
86	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> , The, 2019, 18, 923-934.	4.9	304
87	A comparison of non-invasive versus invasive measures of intracranial pressure in hypoxic ischaemic brain injury after cardiac arrest. <i>Resuscitation</i> , 2019, 137, 221-228.	1.3	52
88	Cerebrovascular reactivity is not associated with therapeutic intensity in adult traumatic brain injury: a CENTER-TBI analysis. <i>Acta Neurochirurgica</i> , 2019, 161, 1955-1964.	0.9	44
89	Compensatory-reserve-weighted intracranial pressure versus intracranial pressure for outcome association in adult traumatic brain injury: a CENTER-TBI validation study. <i>Acta Neurochirurgica</i> , 2019, 161, 1275-1284.	0.9	20
90	Changes in hemodynamics, cerebral oxygenation and cerebrovascular reactivity during the early transitional circulation in preterm infants. <i>Pediatric Research</i> , 2019, 86, 247-253.	1.1	18

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91	Thresholds for identifying pathological intracranial pressure in paediatric traumatic brain injury. <i>Scientific Reports</i> , 2019, 9, 3537.	1.6	10
92	Univariate comparison of performance of different cerebrovascular reactivity indices for outcome association in adult TBI: a CENTER-TBI study. <i>Acta Neurochirurgica</i> , 2019, 161, 1217-1227.	0.9	56
93	Reply to: Optic nerve sheath diameter measurement in hypoxic ischaemic brain injury after cardiac arrest. <i>Resuscitation</i> , 2019, 138, 308-309.	1.3	1
94	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> , 2019, 9, e030727.	0.8	94
95	Estimation of pulsatile cerebral arterial blood volume based on transcranial doppler signals. <i>Medical Engineering and Physics</i> , 2019, 74, 23-32.	0.8	10
96	Feasibility of Hidden Markov Models for the Description of Time-Varying Physiologic State After Severe Traumatic Brain Injury. <i>Critical Care Medicine</i> , 2019, 47, e880-e885.	0.4	9
97	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> , 2019, 47, 960-969.	0.4	97
98	Continuous monitoring of cerebrovascular reactivity through pulse transit time and intracranial pressure. <i>Physiological Measurement</i> , 2019, 40, 01LT01.	1.2	1
99	Twenty-Five Years of Intracranial Pressure Monitoring After Severe Traumatic Brain Injury: A Retrospective, Single-Center Analysis. <i>Neurosurgery</i> , 2019, 85, E75-E82.	0.6	92
100	Changes in cardiac autonomic activity during intracranial pressure plateau waves in patients with traumatic brain injury. <i>Clinical Autonomic Research</i> , 2019, 29, 123-126.	1.4	9
101	Cerebrovascular assessment of patients undergoing shoulder surgery in beach chair position using a multiparameter transcranial Doppler approach. <i>Journal of Clinical Monitoring and Computing</i> , 2019, 33, 615-625.	0.7	14
102	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> , 2019, 36, 1505-1517.	1.7	50
103	Genetic drivers of cerebral blood flow dysfunction in TBI: a speculative synthesis. <i>Nature Reviews Neurology</i> , 2019, 15, 25-39.	4.9	33
104	Novel index for predicting mortality during the first 24 hours after traumatic brain injury. <i>Journal of Neurosurgery</i> , 2019, 131, 1887-1895.	0.9	16
105	Critical Closing Pressure During a Controlled Increase in Intracranial Pressure. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 133-137.	0.5	4
106	Computed Tomography Indicators of Deranged Intracranial Physiology in Paediatric Traumatic Brain Injury. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 29-34.	0.5	5
107	The authors reply. <i>Critical Care Medicine</i> , 2018, 46, e176.	0.4	0
108	Visualisation of the "Optimal Cerebral Perfusion"™ Landscape in Severe Traumatic Brain Injury Patients. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 55-58.	0.5	7

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109	Non-invasive Intracranial Pressure Assessment in Brain Injured Patients Using Ultrasound-Based Methods. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 69-73.	0.5	35
110	Pre-hospital Predictors of Impaired ICP Trends in Continuous Monitoring of Paediatric Traumatic Brain Injury Patients. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 7-10.	0.5	3
111	Effect of Mild Hypocapnia on Critical Closing Pressure and Other Mechanoelastic Parameters of the Cerebrospinal System. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 139-142.	0.5	5
112	Increased ICP and Its Cerebral Haemodynamic Sequelae. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 47-50.	0.5	4
113	Wavelet pressure reactivity index: a validation study. <i>Journal of Physiology</i> , 2018, 596, 2797-2809.	1.3	18
114	Estimating Pressure Reactivity Using Noninvasive Doppler-Based Systolic Flow Index. <i>Journal of Neurotrauma</i> , 2018, 35, 1559-1568.	1.7	26
115	Intracranial and Extracranial Injury Burden as Drivers of Impaired Cerebrovascular Reactivity in Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 1569-1577.	1.7	29
116	Optimal Cerebral Perfusion Pressure in Centers With Different Treatment Protocols. <i>Critical Care Medicine</i> , 2018, 46, e235-e241.	0.4	17
117	Medical Device Connectivity Challenges Outline the Technical Requirements and Standards For Promoting Big Data Research and Personalized Medicine in Neurocritical Care. <i>Military Medicine</i> , 2018, 183, 99-104.	0.4	15
118	Transcranial Doppler Systolic Flow Index and ICP-Derived Cerebrovascular Reactivity Indices in Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 314-322.	1.7	41
119	Multimodality neuromonitoring in severe pediatric traumatic brain injury. <i>Pediatric Research</i> , 2018, 83, 41-49.	1.1	25
120	Further Controversies About Brain Tissue Oxygenation Pressure-Reactivity After Traumatic Brain Injury. <i>Neurocritical Care</i> , 2018, 28, 162-168.	1.2	11
121	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> , 2018, 35, 1107-1115.	1.7	77
122	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> , 2018, 35, 963-974.	1.7	42
123	Optimal cerebral perfusion pressure via transcranial Doppler in TBI: application of robotic technology. <i>Acta Neurochirurgica</i> , 2018, 160, 2149-2157.	0.9	27
124	Impaired cerebral compensatory reserve is associated with admission imaging characteristics of diffuse insult in traumatic brain injury. <i>Acta Neurochirurgica</i> , 2018, 160, 2277-2287.	0.9	24
125	Optimal Mean Arterial Blood Pressure in Extremely Preterm Infants within the First 24 Hours of Life. <i>Journal of Pediatrics</i> , 2018, 203, 242-248.	0.9	28
126	Baroreflex sensitivity and heart rate variability are predictors of mortality in patients with aneurysmal subarachnoid haemorrhage. <i>Journal of the Neurological Sciences</i> , 2018, 394, 112-119.	0.3	15

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127	Survey in expert clinicians on the validity of automated calculation of optimal cerebral perfusion pressure. <i>Minerva Anestesiologica</i> , 2018, 84, 40-48.	0.6	4
128	Heart rate variability is associated with outcome in spontaneous intracerebral hemorrhage. <i>Journal of Critical Care</i> , 2018, 48, 85-89.	1.0	26
129	Radiological Correlates of Raised Intracranial Pressure in Children: A Review. <i>Frontiers in Pediatrics</i> , 2018, 6, 32.	0.9	9
130	Validation of Pressure Reactivity and Pulse Amplitude Indices against the Lower Limit of Autoregulation, Part I: Experimental Intracranial Hypertension. <i>Journal of Neurotrauma</i> , 2018, 35, 2803-2811.	1.7	46
131	Critical thresholds for intracranial pressure vary over time in non-craniectomised traumatic brain injury patients. <i>Acta Neurochirurgica</i> , 2018, 160, 1315-1324.	0.9	16
132	Baroreflex Impairment After Subarachnoid Hemorrhage Is Associated With Unfavorable Outcome. <i>Stroke</i> , 2018, 49, 1632-1638.	1.0	12
133	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> , 2018, 35, 2812-2819.	1.7	47
134	HDF5-Based Data Format for Archiving Complex Neuro-monitoring Data in Traumatic Brain Injury Patients. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 121-125.	0.5	10
135	Simultaneous Transients of Intracranial Pressure and Heart Rate in Traumatic Brain Injury: Methods of Analysis. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 147-151.	0.5	7
136	Deriving the PRx and CPPopt from 0.2-Hz Data: Establishing Generalizability to Bedmaster Users. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 179-182.	0.5	7
137	Do ICP-Derived Parameters Differ in Vegetative State from Other Outcome Groups After Traumatic Brain Injury?. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 17-20.	0.5	1
138	Mathematical Modelling of CSF Pulsatile Flow in Aqueduct Cerebri. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 233-236.	0.5	3
139	Cerebral haemodynamics during experimental intracranial hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 694-705.	2.4	24
140	Monitoring of Optimal Cerebral Perfusion Pressure in Traumatic Brain Injured Patients Using a Multi-Window Weighting Algorithm. <i>Journal of Neurotrauma</i> , 2017, 34, 3081-3088.	1.7	45
141	Severe traumatic brain injury: targeted management in the intensive care unit. <i>Lancet Neurology</i> , The, 2017, 16, 452-464.	4.9	277
142	Complexity of brain signals is associated with outcome in preterm infants. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3368-3379.	2.4	21
143	Continuous Autoregulatory Indices Derived from Multi-Modal Monitoring: Each One Is Not Like the Other. <i>Journal of Neurotrauma</i> , 2017, 34, 3070-3080.	1.7	67
144	Impaired cerebral autoregulation: measurement and application to stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, 520-531.	0.9	114

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145	Relationship Between Brain Pulsatility and Cerebral Perfusion Pressure: Replicated Validation Using Different Drivers of CPP Change. <i>Neurocritical Care</i> , 2017, 27, 392-400.	1.2	15
146	Continuous Monitoring and Visualization of Optimum Spinal Cord Perfusion Pressure in Patients with Acute Cord Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 2941-2949.	1.7	44
147	Early Asymmetric Cardio-Cerebral Causality and Outcome after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 2743-2752.	1.7	31
148	Predictors of Outcome With Cerebral Autoregulation Monitoring: A Systematic Review and Meta-Analysis. <i>Critical Care Medicine</i> , 2017, 45, 695-704.	0.4	74
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