P Smielewski

List of Publications by Year
in descending order

79	6,351	76196	102304
papers	citations	40 h-index	66 g-index

79	79	79	3195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	817â€ƒRobotic Semi-Automated Transcranial Doppler Assessment of Cerebrovascular Autoregulation in Post Concussional Syndrome: Methodological Considerations. British Journal of Surgery, 2021, 108, .	0.1	0
2	Pressure Reactivity-Based Optimal Cerebral Perfusion Pressure in a Traumatic Brain Injury Cohort. Acta Neurochirurgica Supplementum, 2018, 126, 209-212.	0.5	26
3	ICP Versus Laser Doppler Cerebrovascular Reactivity Indices to Assess Brain Autoregulatory Capacity. Neurocritical Care, 2018, 28, 194-202.	1.2	23
4	Compensatory-Reserve-Weighted Intracranial Pressure and Its Association with Outcome After Traumatic Brain Injury. Neurocritical Care, 2018, 28, 212-220.	1.2	35
5	Application of robotic transcranial Doppler for extended duration recording in moderate/severe traumatic brain injury: first experiences. The Ultrasound Journal, 2018, 10, 16.	2.0	41
6	Occurrence of CPPopt Values in Uncorrelated ICP and ABP Time Series. Acta Neurochirurgica Supplementum, 2018, 126, 143-146.	0.5	3
7	â€œSolid Red Lineâ€: An Observational Study on Death from Refractory Intracranial Hypertension. Acta Neurochirurgica Supplementum, 2016, 122, 113-116.	0.5	12
8	Non-invasive Monitoring of Intracranial Pressure Using Transcranial Doppler Ultrasonography: Is It Possible?. Neurocritical Care, 2016, 25, 473-491.	1.2	165
9	The ontogeny of cerebrovascular pressure autoregulation in premature infants. Journal of Perinatology, 2014, 34, 926-931.	0.9	45
10	Heart rate passivity of cerebral tissue oxygenation is associated with predictors of poor outcome in preterm infants. Acta Paediatrica, International Journal of Paediatrics, 2014, 103, e374-82.	0.7	40
11	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
12	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. Brain, 2012, 135, 2399-2408.	3.7	73
13	Critical Thresholds for Cerebrovascular Reactivity After Traumatic Brain Injury. Neurocritical Care, 2012, 16, 258-266.	1.2	339
14	Cerebral arterial compliance in patients with internal carotid artery disease. European Journal of Neurology, 2011, 18, 711-718.	1.7	15
15	Pulsatile Intracranial Pressure and Cerebral Autoregulation After Traumatic Brain Injury. Neurocritical Care, 2011, 15, 379-386.	1.2	48
16	Monitoring cerebrovascular pressure reactivity with rheoencephalography. Journal of Physics: Conference Series, 2010, 224, 012089.	0.3	15
17	Evaluation of the cerebrovascular pressure reactivity index using non-invasive finapres arterial blood pressure. Physiological Measurement, 2010, 31, 1217-1228.	1.2	20
18	Continuous Monitoring of Cerebrovascular Pressure Reactivity After Traumatic Brain Injury in Children. Pediatrics, 2009, 124, e1205-e1212.	1.0	122

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19	In vivoassessment of hydrocephalus shunt. Acta Neurologica Scandinavica, 2009, 120, 317-323.	1.0	31
20	ICM+, a flexible platform for investigations of cerebrospinal dynamics in clinical practice. Acta Neurochirurgica Supplementum, 2008, 102, 145-151.	0.5	48
21	Association between intracranial, arterial pulse pressure amplitudes and cerebral autoregulation in head injury patients. Neurological Research, 2007, 29, 578-582.	0.6	35
22	Cerebrovascular reactivity during hypothermia and rewarming. British Journal of Anaesthesia, 2007, 99, 237-244.	1.5	112
23	Dynamic cerebral autoregulation: should intracranial pressure be taken into account?. Acta Neurochirurgica, 2007, 149, 549-555.	0.9	28
24	Use of ICM+ software for on-line analysis of intracranial and arterial pressures in head-injured patients. , 2006, 96, 108-113.		23
25	Monitoring and interpretation of intracranial pressure after head injury. , 2006, 96, 114-118.		73
26	Physiological thresholds for irreversible tissue damage in contusional regions following traumatic brain injury. Brain, 2005, 128, 1931-1942.	3.7	168
27	â€˜ICM+â€™: software for on-line analysis of data from bedside monitors in neurosurgical and neurointensive care patients. European Journal of Anaesthesiology, 2005, 22, 10-11.	0.7	0
28	Predicting the response of intracranial pressure to moderate hyperventilation. Acta Neurochirurgica, 2005, 147, 477-483.	0.9	21
29	Asymmetry of critical closing pressure following head injury. Journal of Neurology, Neurosurgery and Psychiatry, 2005, 76, 1570-1573.	0.9	17
30	Imaging of cerebral blood flow and metabolism in brain injury in the ICU. Acta Neurochirurgica Supplementum, 2005, 95, 459-464.	0.5	16
31	ICM+: software for on-line analysis of bedside monitoring data after severe head trauma. Acta Neurochirurgica Supplementum, 2005, 95, 43-49.	0.5	102
32	Concept of â€œtrue ICPâ€•in monitoring and prognostication in head trauma. , 2005, 95, 341-344.		23
33	Intracranial hypertension: what additional information can be derived from ICP waveform after head injury?. Acta Neurochirurgica, 2004, 146, 131-141.	0.9	151
34	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
35	Pressure-autoregulation, CO 2 reactivity and asymmetry of haemodynamic parameters in patients with carotid artery stenotic disease. A clinical appraisal. Acta Neurochirurgica, 2003, 145, 527-532.	0.9	33
36	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

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37	Continuous assessment of cerebral autoregulation: clinical and laboratory experience. , 2003, 86, 581-585.		40
38	Clinical Significance of Cerebral Autoregulation. , 2002, 81, 117-119.		20
39	Asymmetry of Cerebral Autoregulation Following Head Injury. , 2002, 81, 133-134.		11
40	Cerebral autoregulation following head injury. Journal of Neurosurgery, 2001, 95, 756-763.	0.9	266
41	The influence of hemodynamic stress factors on intracranial aneurysm formation. Journal of Neurosurgery, 2001, 95, 764-770.	0.9	16
42	Evaluation of a Near-Infrared Spectrometer (NIRO 300) for the Detection of Intracranial Oxygenation Changes in the Adult Head. Stroke, 2001, 32, 2492-2500.	1.0	253
43	Predicting Delayed Ischemic Deficits after Aneurysmal Subarachnoid Hemorrhage Using a Transient Hyperemic Response Test of Cerebral Autoregulation. Neurosurgery, 2000, 47, 819-826.	0.6	118
44	A Study of Perioperative Lumbar Cerebrospinal Fluid Pressure in Patients Undergoing Acoustic Neuroma Surgery. Skull Base Surgery, 2000, Volume 10, 0179-0186.	0.1	12
45	Continuous Assessment of Cerebral Autoregulation â€" Clinical Verification of the Method in Head Injured Patients. , 2000, 76, 483-484.		27
46	The Continuous Assessment of Cerebrovascular Reactivity: A Validation of the Method in Healthy Volunteers. Anesthesia and Analgesia, 1999, 89, 944.	1.1	43
47	Hemodynamic characterization of intracranial pressure plateau waves in head-injured patients. Journal of Neurosurgery, 1999, 91, 11-19.	0.9	95
48	Critical closing pressure in cerebrovascular circulation. Journal of Neurology, Neurosurgery and Psychiatry, 1999, 66, 606-611.	0.9	86
49	Assessment of Spatially Resolved Spectroscopy During Cardiopulmonary Bypass. Journal of Biomedical Optics, 1999, 4, 208.	1.4	12
50	Preoperative carbon dioxide reactivity studies do not predict the hemodynamic changes seen during carotid endarterectomy after internal carotid artery clamping. Journal of Stroke and Cerebrovascular Diseases, 1998, 7, 44-51.	0.7	2
51	Defining thresholds for critical ischemia by using near-infrared spectroscopy in the adult brain. Journal of Neurosurgery, 1998, 89, 389-394.	0.9	105
52	Cerebral perfusion pressure in head-injured patients: a noninvasive assessment using transcranial Doppler ultrasonography. Journal of Neurosurgery, 1998, 88, 802-808.	0.9	214
53	Preliminary Evaluation of a Prototype Spatially Resolved Spectrometer. , 1998, 71, 255-257.		9
54	Indices for Decreased Cerebral Blood Flow Control â€" A Modelling Study. , 1998, 71, 269-271.		6

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55	Assessment of Cerebrovascular Reactivity in Patients with Carotid Artery Disease Using Near-Infrared Spectroscopy. , 1998, 71, 263-265.		7
56	Evaluation of the transient hyperemic response test in head-injured patients. Journal of Neurosurgery, 1997, 86, 773-778.	0.9	116
57	Non-invasive measurement of cerebral blood volume in volunteers. British Journal of Anaesthesia, 1997, 78, 39-43.	1.5	23
58	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
59	A computing system for the clinical and experimental investigation of cerebrovascular reactivity. Journal of Clinical Monitoring and Computing, 1997, 14, 185-198.	0.3	15
60	Thresholds for Hypoxic Cerebral Vasodilation in Volunteers. Anesthesia and Analgesia, 1997, 85, 817-820.	1.1	61
61	Continuous Assessment of the Cerebral Vasomotor Reactivity in Head Injury. Neurosurgery, 1997, 41, 11-19.	0.6	732
62	Clinical Evaluation of Near-Infrared Spectroscopy for Testing Cerebrovascular Reactivity in Patients With Carotid Artery Disease. Stroke, 1997, 28, 331-338.	1.0	89
63	Internal and External Carotid Contributions to Near-Infrared Spectroscopy During Carotid Endarterectomy. Stroke, 1997, 28, 906-911.	1.0	60
64	Early Effects of Mannitol in Patients with Head Injuries Assessed Using Bedside Multimodality Monitoring. Neurosurgery, 1996, 39, 714-721.	0.6	63
65	Significance of intracranial pressure waveform analysis after head injury. Acta Neurochirurgica, 1996, 138, 531-542.	0.9	144
66	A Feedback-Controlled Pump Produces Stable Hypotension in Anaesthetised Rabbits. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 532-536.	2.4	2
67	An audit of aneurysmal subarachnoid haemorrhage: earlier resuscitation and surgery reduces inpatient stay and deaths from rebleeding.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 60, 301-306.	0.9	50
68	Use of near infrared spectroscopy for the clinical monitoring of adult brain. Journal of Biomedical Optics, 1996, 1, 363.	1.4	29
69	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
70	Monitoring of Cerebral Autoregulation in Head-Injured Patients. Stroke, 1996, 27, 1829-1834.	1.0	448
71	Assessment of Cerebral Autoregulation Using Carotid Artery Compression. Stroke, 1996, 27, 2197-2203.	1.0	126
72	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

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73	Identification of the cerebrospinal compensatory mechanisms via computer-controlled drainage of the cerebrospinal fluid. Child's Nervous System, 1995, 11, 297-300.	0.6	9
74	Near-infrared spectroscopy use in patients with head injury. Journal of Neurosurgery, 1995, 83, 963-970.	0.9	146
75	An observational study of near-infrared spectroscopy during carotid endarterectomy. Journal of Neurosurgery, 1995, 82, 756-763.	0.9	115
76	Can Cerebrovascular Reactivity Be Measured With Near-Infrared Spectroscopy?. Stroke, 1995, 26, 2285-2292.	1.0	115
77	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
78	Computer supported multimodal bed-side monitoring for neuro intensive care. Journal of Clinical Monitoring and Computing, 1994, 11, 223-232.	0.3	73
79	Testing of Cerebral Autoregulation in Head Injury by Waveform Analysis of Blood Flow Velocity and Cerebral Perfusion Pressure. , 1994, 60, 468-471.		21