

P Smielewski

List of Publications by Year in descending order

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79
papers

6,351
citations

76196

40
h-index

102304

66
g-index

79
all docs

79
docs citations

79
times ranked

3195
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Assessment of the Cerebral Vasomotor Reactivity in Head Injury. <i>Neurosurgery</i> , 1997, 41, 11-19.	0.6	732
2	Monitoring of Cerebral Autoregulation in Head-Injured Patients. <i>Stroke</i> , 1996, 27, 1829-1834.	1.0	448
3	Critical Thresholds for Cerebrovascular Reactivity After Traumatic Brain Injury. <i>Neurocritical Care</i> , 2012, 16, 258-266.	1.2	339
4	Cerebral autoregulation following head injury. <i>Journal of Neurosurgery</i> , 2001, 95, 756-763.	0.9	266
5	Evaluation of a Near-Infrared Spectrometer (NIRO 300) for the Detection of Intracranial Oxygenation Changes in the Adult Head. <i>Stroke</i> , 2001, 32, 2492-2500.	1.0	253
6	Cerebral perfusion pressure in head-injured patients: a noninvasive assessment using transcranial Doppler ultrasonography. <i>Journal of Neurosurgery</i> , 1998, 88, 802-808.	0.9	214
7	Predictive value of Glasgow Coma Scale after brain trauma: change in trend over the past ten years. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2004, 75, 161-2.	0.9	174
8	Physiological thresholds for irreversible tissue damage in contusional regions following traumatic brain injury. <i>Brain</i> , 2005, 128, 1931-1942.	3.7	168
9	Non-invasive Monitoring of Intracranial Pressure Using Transcranial Doppler Ultrasonography: Is It Possible?. <i>Neurocritical Care</i> , 2016, 25, 473-491.	1.2	165
10	Intracranial hypertension: what additional information can be derived from ICP waveform after head injury?. <i>Acta Neurochirurgica</i> , 2004, 146, 131-141.	0.9	151
11	Near-infrared spectroscopy use in patients with head injury. <i>Journal of Neurosurgery</i> , 1995, 83, 963-970.	0.9	146
12	Significance of intracranial pressure waveform analysis after head injury. <i>Acta Neurochirurgica</i> , 1996, 138, 531-542.	0.9	144
13	Contribution of mathematical modelling to the interpretation of bedside tests of cerebrovascular autoregulation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1997, 63, 721-731.	0.9	140
14	Assessment of Cerebral Autoregulation Using Carotid Artery Compression. <i>Stroke</i> , 1996, 27, 2197-2203.	1.0	126
15	Continuous Monitoring of Cerebrovascular Pressure Reactivity After Traumatic Brain Injury in Children. <i>Pediatrics</i> , 2009, 124, e1205-e1212.	1.0	122
16	Predicting Delayed Ischemic Deficits after Aneurysmal Subarachnoid Hemorrhage Using a Transient Hyperemic Response Test of Cerebral Autoregulation. <i>Neurosurgery</i> , 2000, 47, 819-826.	0.6	118
17	Testing of cerebrospinal compensatory reserve in shunted and non-shunted patients: a guide to interpretation based on an observational study.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1996, 60, 549-558.	0.9	116
18	Evaluation of the transient hyperemic response test in head-injured patients. <i>Journal of Neurosurgery</i> , 1997, 86, 773-778.	0.9	116

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19	An observational study of near-infrared spectroscopy during carotid endarterectomy. <i>Journal of Neurosurgery</i> , 1995, 82, 756-763.	0.9	115
20	Can Cerebrovascular Reactivity Be Measured With Near-Infrared Spectroscopy?. <i>Stroke</i> , 1995, 26, 2285-2292.	1.0	115
21	Cerebrovascular reactivity during hypothermia and rewarming. <i>British Journal of Anaesthesia</i> , 2007, 99, 237-244.	1.5	112
22	Defining thresholds for critical ischemia by using near-infrared spectroscopy in the adult brain. <i>Journal of Neurosurgery</i> , 1998, 89, 389-394.	0.9	105
23	ICM+: software for on-line analysis of bedside monitoring data after severe head trauma. <i>Acta Neurochirurgica Supplementum</i> , 2005, 95, 43-49.	0.5	102
24	Hemodynamic characterization of intracranial pressure plateau waves in head-injured patients. <i>Journal of Neurosurgery</i> , 1999, 91, 11-19.	0.9	95
25	Clinical Evaluation of Near-Infrared Spectroscopy for Testing Cerebrovascular Reactivity in Patients With Carotid Artery Disease. <i>Stroke</i> , 1997, 28, 331-338.	1.0	89
26	Critical closing pressure in cerebrovascular circulation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1999, 66, 606-611.	0.9	86
27	Computer supported multimodal bed-side monitoring for neuro intensive care. <i>Journal of Clinical Monitoring and Computing</i> , 1994, 11, 223-232.	0.3	73
28	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. <i>Brain</i> , 2012, 135, 2399-2408.	3.7	73
29	Monitoring and interpretation of intracranial pressure after head injury. , 2006, 96, 114-118.		73
30	Cerebrovascular pressure reactivity is related to global cerebral oxygen metabolism after head injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 765-770.	0.9	66
31	Computerised transient hyperaemic response test – A method for the assessment of cerebral autoregulation. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 599-611.	0.7	63
32	Early Effects of Mannitol in Patients with Head Injuries Assessed Using Bedside Multimodality Monitoring. <i>Neurosurgery</i> , 1996, 39, 714-721.	0.6	63
33	Thresholds for Hypoxic Cerebral Vasodilation in Volunteers. <i>Anesthesia and Analgesia</i> , 1997, 85, 817-820.	1.1	61
34	Internal and External Carotid Contributions to Near-Infrared Spectroscopy During Carotid Endarterectomy. <i>Stroke</i> , 1997, 28, 906-911.	1.0	60
35	What comes first? The dynamics of cerebral oxygenation and blood flow in response to changes in arterial pressure and intracranial pressure after head injury. <i>British Journal of Anaesthesia</i> , 2012, 108, 89-99.	1.5	58
36	Continuous monitoring of cortical perfusion by laser Doppler flowmetry in ventilated patients with head injury.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1994, 57, 1382-1388.	0.9	52

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37	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
38	Pulsatile Intracranial Pressure and Cerebral Autoregulation After Traumatic Brain Injury. Neurocritical Care, 2011, 15, 379-386.	1.2	48
39	ICM+, a flexible platform for investigations of cerebrospinal dynamics in clinical practice. Acta Neurochirurgica Supplementum, 2008, 102, 145-151.	0.5	48
40	The ontogeny of cerebrovascular pressure autoregulation in premature infants. Journal of Perinatology, 2014, 34, 926-931.	0.9	45
41	The Continuous Assessment of Cerebrovascular Reactivity: A Validation of the Method in Healthy Volunteers. Anesthesia and Analgesia, 1999, 89, 944.	1.1	43
42	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
43	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
44	Continuous assessment of cerebral autoregulation: clinical and laboratory experience. , 2003, 86, 581-585.		40
45	Association between intracranial, arterial pulse pressure amplitudes and cerebral autoregulation in head injury patients. Neurological Research, 2007, 29, 578-582.	0.6	35
46	Compensatory-Reserve-Weighted Intracranial Pressure and Its Association with Outcome After Traumatic Brain Injury. Neurocritical Care, 2018, 28, 212-220.	1.2	35
47	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
48	<i>In vivo</i> assessment of hydrocephalus shunt. Acta Neurologica Scandinavica, 2009, 120, 317-323.	1.0	31
49	Use of near infrared spectroscopy for the clinical monitoring of adult brain. Journal of Biomedical Optics, 1996, 1, 363.	1.4	29
50	Dynamic cerebral autoregulation: should intracranial pressure be taken into account?. Acta Neurochirurgica, 2007, 149, 549-555.	0.9	28
51	Continuous Assessment of Cerebral Autoregulation – Clinical Verification of the Method in Head Injured Patients. , 2000, 76, 483-484.		27
52	Pressure Reactivity-Based Optimal Cerebral Perfusion Pressure in a Traumatic Brain Injury Cohort. Acta Neurochirurgica Supplementum, 2018, 126, 209-212.	0.5	26
53	Non-invasive measurement of cerebral blood volume in volunteers. British Journal of Anaesthesia, 1997, 78, 39-43.	1.5	23
54	ICP Versus Laser Doppler Cerebrovascular Reactivity Indices to Assess Brain Autoregulatory Capacity. Neurocritical Care, 2018, 28, 194-202.	1.2	23

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55	Use of ICM+ software for on-line analysis of intracranial and arterial pressures in head-injured patients. , 2006, 96, 108-113.		23
56	Concept of "true ICP" in monitoring and prognostication in head trauma. , 2005, 95, 341-344.		23
57	Predicting the response of intracranial pressure to moderate hyperventilation. Acta Neurochirurgica, 2005, 147, 477-483.	0.9	21
58	Testing of Cerebral Autoregulation in Head Injury by Waveform Analysis of Blood Flow Velocity and Cerebral Perfusion Pressure. , 1994, 60, 468-471.		21
59	Evaluation of the cerebrovascular pressure reactivity index using non-invasive finapres arterial blood pressure. Physiological Measurement, 2010, 31, 1217-1228.	1.2	20
60	Clinical Significance of Cerebral Autoregulation. , 2002, 81, 117-119.		20
61	Asymmetry of critical closing pressure following head injury. Journal of Neurology, Neurosurgery and Psychiatry, 2005, 76, 1570-1573.	0.9	17
62	The influence of hemodynamic stress factors on intracranial aneurysm formation. Journal of Neurosurgery, 2001, 95, 764-770.	0.9	16
63	Imaging of cerebral blood flow and metabolism in brain injury in the ICU. Acta Neurochirurgica Supplementum, 2005, 95, 459-464.	0.5	16
64	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
65	Monitoring cerebrovascular pressure reactivity with rheoencephalography. Journal of Physics: Conference Series, 2010, 224, 012089.	0.3	15
66	Cerebral arterial compliance in patients with internal carotid artery disease. European Journal of Neurology, 2011, 18, 711-718.	1.7	15
67	Assessment of Spatially Resolved Spectroscopy During Cardiopulmonary Bypass. Journal of Biomedical Optics, 1999, 4, 208.	1.4	12
68	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
69	"Solid Red Line" An Observational Study on Death from Refractory Intracranial Hypertension. Acta Neurochirurgica Supplementum, 2016, 122, 113-116.	0.5	12
70	Asymmetry of Cerebral Autoregulation Following Head Injury. , 2002, 81, 133-134.		11
71	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
72	Preliminary Evaluation of a Prototype Spatially Resolved Spectrometer. , 1998, 71, 255-257.		9

#	ARTICLE	IF	CITATIONS
73	Assessment of Cerebrovascular Reactivity in Patients with Carotid Artery Disease Using Near-Infrared Spectroscopy. , 1998, 71, 263-265.		7
74	Indices for Decreased Cerebral Blood Flow Control – A Modelling Study. , 1998, 71, 269-271.		6
75	Occurrence of CPPopt Values in Uncorrelated ICP and ABP Time Series. Acta Neurochirurgica Supplementum, 2018, 126, 143-146.	0.5	3
76	A Feedback-Controlled Pump Produces Stable Hypotension in Anaesthetised Rabbits. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 532-536.	2.4	2
77	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
78	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
79	817â€™Robotic Semi-Automated Transcranial Doppler Assessment of Cerebrovascular Autoregulation in Post Concussional Syndrome: Methodological Considerations. British Journal of Surgery, 2021, 108, .	0.1	0