Michael S Beattie

List of Publications by Year
in descending order

42 papers	3,403 citations	218677 26 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	4162 citing authors

#	Article	IF	Citations
1	Excavating FAIR Data: the Case of the Multicenter Animal Spinal Cord Injury Study (MASCIS), Blood Pressure, and Neuro-Recovery. Neuroinformatics, 2022, 20, 39-52.	2.8	10
2	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). Neuroinformatics, 2022, 20, 203-219.	2.8	10
3	Decision treeâ€"based machine learning analysis of intraoperative vasopressor use to optimize neurological improvement in acute spinal cord injury. Neurosurgical Focus, 2022, 52, E9.	2.3	2
4	Expert-augmented automated machine learning optimizes hemodynamic predictors of spinal cord injury outcome. PLoS ONE, 2022, 17, e0265254.	2.5	9
5	Diagnostic blood RNA profiles for human acute spinal cord injury. Journal of Experimental Medicine, 2021, 218, .	8.5	31
6	Topological network analysis of patient similarity for precision management of acute blood pressure in spinal cord injury. ELife, 2021, 10, .	6.0	15
7	Clinical Implementation of Novel Spinal Cord Perfusion Pressure Protocol in Acute Traumatic Spinal Cord Injury at U.S. Level I Trauma Center: TRACK-SCI Study. World Neurosurgery, 2020, 133, e391-e396.	1.3	29
8	Exploration of surgical blood pressure management and expected motor recovery in individuals with traumatic spinal cord injury. Spinal Cord, 2020, 58, 377-386.	1.9	24
9	Injury volume extracted from MRI predicts neurologic outcome in acute spinal cord injury: A prospective TRACK-SCI pilot study. Journal of Clinical Neuroscience, 2020, 82, 231-236.	1.5	6
10	Transforming Research and Clinical Knowledge in Spinal Cord Injury (TRACK-SCI): an overview of initial enrollment and demographics. Neurosurgical Focus, 2020, 48, E6.	2.3	12
11	Dexmedetomidine modulates neuroinflammation and improves outcome via alpha2-adrenergic receptor signaling after rat spinal cord injury. British Journal of Anaesthesia, 2019, 123, 827-838.	3.4	48
12	Differential fracture response to traumatic brain injury suggests dominance of neuroinflammatory response in polytrauma. Scientific Reports, 2019, 9, 12199.	3.3	28
13	Convolutional Neural Networkâ€"Based Automated Segmentation of the Spinal Cord and Contusion Injury: Deep Learning Biomarker Correlates of Motor Impairment in Acute Spinal Cord Injury. American Journal of Neuroradiology, 2019, 40, 737-744.	2.4	44
14	MR Imaging for Assessing Injury Severity and Prognosis in Acute Traumatic Spinal Cord Injury. Radiologic Clinics of North America, 2019, 57, 319-339.	1.8	33
15	Ultra-Early (<12 Hours) Surgery Correlates With Higher Rate of American Spinal Injury Association Impairment Scale Conversion After Cervical Spinal Cord Injury. Neurosurgery, 2019, 85, 199-203.	1.1	69
16	Motor Evoked Potentials Correlate With Magnetic Resonance Imaging and Early Recovery After Acute Spinal Cord Injury. Neurosurgery, 2018, 82, 870-876.	1.1	34
17	Multivariate Analysis of MRI Biomarkers for Predicting Neurologic Impairment in Cervical Spinal Cord Injury. American Journal of Neuroradiology, 2017, 38, 648-655.	2.4	44
18	Failure of Mean Arterial Pressure Goals to Improve Outcomes Following Penetrating Spinal Cord Injury. Neurosurgery, 2016, 79, 708-714.	1.1	26

#	ARTICLE	IF	CITATIONS
19	Mechanical Design and Analysis of a Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates. Journal of Neurotrauma, 2016, 33, 1136-1149.	3.4	29
20	A novel inhibitor of p75-neurotrophin receptor improves functional outcomes in two models of traumatic brain injury. Brain, 2016, 139, 1762-1782.	7.6	44
21	A novel antagonist of p75NTR reduces peripheral expansion and CNS trafficking of pro-inflammatory monocytes and spares function after traumatic brain injury. Journal of Neuroinflammation, 2016, 13, 88.	7.2	38
22	Higher Mean Arterial Pressure Values Correlate with Neurologic Improvement in Patients with Initially Complete Spinal Cord Injuries. World Neurosurgery, 2016, 96, 72-79.	1.3	58
23	Multidimensional Analysis of Magnetic Resonance Imaging Predicts Early Impairment in Thoracic and Thoracolumbar Spinal Cord Injury. Journal of Neurotrauma, 2016, 33, 954-962.	3.4	37
24	A Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates (Macaca mulatta). Journal of Neurotrauma, 2016, 33, 439-459.	3.4	42
25	Diffusion-Weighted Magnetic Resonance Imaging Characterization of White Matter Injury Produced by Axon-Sparing Demyelination and Severe Contusion Spinal Cord Injury in Rats. Journal of Neurotrauma, 2016, 33, 929-942.	3.4	9
26	AMPA Receptor Phosphorylation and Synaptic Colocalization on Motor Neurons Drive Maladaptive Plasticity below Complete Spinal Cord Injury. ENeuro, 2015, 2, ENEURO.0091-15.2015.	1.9	23
27	Mean Arterial Blood Pressure Correlates with Neurological Recovery after Human Spinal Cord Injury: Analysis of High Frequency Physiologic Data. Journal of Neurotrauma, 2015, 32, 1958-1967.	3.4	187
28	Placental Mesenchymal Stromal Cells Rescue Ambulation in Ovine Myelomeningocele. Stem Cells Translational Medicine, 2015, 4, 659-669.	3.3	103
29	The Brain and Spinal Injury Center score: a novel, simple, and reproducible method for assessing the severity of acute cervical spinal cord injury with axial T2-weighted MRI findings. Journal of Neurosurgery: Spine, 2015, 23, 495-504.	1.7	132
30	Complications and outcomes of vasopressor usage in acute traumatic central cord syndrome. Journal of Neurosurgery: Spine, 2015, 23, 574-580.	1.7	45
31	Topological data analysis for discovery in preclinical spinal cord injury and traumatic brain injury. Nature Communications, 2015, 6, 8581.	12.8	153
32	Leveraging biomedical informatics for assessing plasticity and repair in primate spinal cord injury. Brain Research, 2015, 1619, 124-138.	2.2	16
33	Development of a Database for Translational Spinal Cord Injury Research. Journal of Neurotrauma, 2014, 31, 1789-1799.	3.4	100
34	The Irvine, Beatties, and Bresnahan (IBB) Forelimb Recovery Scale: An Assessment of Reliability and Validity. Frontiers in Neurology, 2014, 5, 116.	2.4	47
35	Derivation of Multivariate Syndromic Outcome Metrics for Consistent Testing across Multiple Models of Cervical Spinal Cord Injury in Rats. PLoS ONE, 2013, 8, e59712.	2.5	65
36	Tumor Necrosis Factor Alpha Mediates GABA_{A}Receptor Trafficking to the Plasma Membrane of Spinal Cord Neurons<i>In Vivo</i>. Neural Plasticity, 2012, 2012, 1-11.	2.2	29

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37	Glial Tumor Necrosis Factor Alpha (TNFÎ±) Generates Metaplastic Inhibition of Spinal Learning. PLoS ONE, 2012, 7, e39751.	2.5	49
38	Tight squeeze, slow burn: inflammation and the aetiology of cervical myelopathy. Brain, 2011, 134, 1259-1261.	7.6	44
39	AMPAâ€receptor trafficking and injuryâ€induced cell death. European Journal of Neuroscience, 2010, 32, 290-297.	2.6	71
40	Cell Death after Spinal Cord Injury Is Exacerbated by Rapid TNFÎ±-Induced Trafficking of GluR2-Lacking AMPARs to the Plasma Membrane. Journal of Neuroscience, 2008, 28, 11391-11400.	3.6	205
41	Control of Synaptic Strength by Glial TNFalpha. Science, 2002, 295, 2282-2285.	12.6	1,211
42	Tumor Necrosis Factor-Î± Induces cFOS and Strongly Potentiates Glutamate-Mediated Cell Death in the Rat Spinal Cord. Neurobiology of Disease, 2001, 8, 590-599.	4.4	181