

Michael S Beattie

List of Publications by Year in descending order

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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	Control of Synaptic Strength by Glial TNF α . <i>Science</i> , 2002, 295, 2282-2285.	12.6	1,211
2	Cell Death after Spinal Cord Injury Is Exacerbated by Rapid TNF α -Induced Trafficking of GluR2-Lacking AMPARs to the Plasma Membrane. <i>Journal of Neuroscience</i> , 2008, 28, 11391-11400.	3.6	205
3	Mean Arterial Blood Pressure Correlates with Neurological Recovery after Human Spinal Cord Injury: Analysis of High Frequency Physiologic Data. <i>Journal of Neurotrauma</i> , 2015, 32, 1958-1967.	3.4	187
4	Tumor Necrosis Factor α Induces cFOS and Strongly Potentiates Glutamate-Mediated Cell Death in the Rat Spinal Cord. <i>Neurobiology of Disease</i> , 2001, 8, 590-599.	4.4	181
5	Topological data analysis for discovery in preclinical spinal cord injury and traumatic brain injury. <i>Nature Communications</i> , 2015, 6, 8581.	12.8	153
6	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. <i>Journal of Neurosurgery: Spine</i> , 2015, 23, 495-504.	1.7	132
7	Placental Mesenchymal Stromal Cells Rescue Ambulation in Ovine Myelomeningocele. <i>Stem Cells Translational Medicine</i> , 2015, 4, 659-669.	3.3	103
8	Development of a Database for Translational Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2014, 31, 1789-1799.	3.4	100
9	AMPA α receptor trafficking and injury α induced cell death. <i>European Journal of Neuroscience</i> , 2010, 32, 290-297.	2.6	71
10	Ultra-Early (<12 Hours) Surgery Correlates With Higher Rate of American Spinal Injury Association Impairment Scale Conversion After Cervical Spinal Cord Injury. <i>Neurosurgery</i> , 2019, 85, 199-203.	1.1	69
11	Derivation of Multivariate Syndromic Outcome Metrics for Consistent Testing across Multiple Models of Cervical Spinal Cord Injury in Rats. <i>PLoS ONE</i> , 2013, 8, e59712.	2.5	65
12	Higher Mean Arterial Pressure Values Correlate with Neurologic Improvement in Patients with Initially Complete Spinal Cord Injuries. <i>World Neurosurgery</i> , 2016, 96, 72-79.	1.3	58
13	Glial Tumor Necrosis Factor Alpha (TNF α) Generates Metaplastic Inhibition of Spinal Learning. <i>PLoS ONE</i> , 2012, 7, e39751.	2.5	49
14	Dexmedetomidine modulates neuroinflammation and improves outcome via alpha2-adrenergic receptor signaling after rat spinal cord injury. <i>British Journal of Anaesthesia</i> , 2019, 123, 827-838.	3.4	48
15	The Irvine, Beatties, and Bresnahan (IBB) Forelimb Recovery Scale: An Assessment of Reliability and Validity. <i>Frontiers in Neurology</i> , 2014, 5, 116.	2.4	47
16	Complications and outcomes of vasopressor usage in acute traumatic central cord syndrome. <i>Journal of Neurosurgery: Spine</i> , 2015, 23, 574-580.	1.7	45
17	Tight squeeze, slow burn: inflammation and the aetiology of cervical myelopathy. <i>Brain</i> , 2011, 134, 1259-1261.	7.6	44
18	A novel inhibitor of p75-neurotrophin receptor improves functional outcomes in two models of traumatic brain injury. <i>Brain</i> , 2016, 139, 1762-1782.	7.6	44

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19	Multivariate Analysis of MRI Biomarkers for Predicting Neurologic Impairment in Cervical Spinal Cord Injury. <i>American Journal of Neuroradiology</i> , 2017, 38, 648-655.	2.4	44
20	Convolutional Neural Network-Based Automated Segmentation of the Spinal Cord and Contusion Injury: Deep Learning Biomarker Correlates of Motor Impairment in Acute Spinal Cord Injury. <i>American Journal of Neuroradiology</i> , 2019, 40, 737-744.	2.4	44
21	A Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates (<i>Macaca mulatta</i>). <i>Journal of Neurotrauma</i> , 2016, 33, 439-459.	3.4	42
22	A novel antagonist of p75NTR reduces peripheral expansion and CNS trafficking of pro-inflammatory monocytes and spares function after traumatic brain injury. <i>Journal of Neuroinflammation</i> , 2016, 13, 88.	7.2	38
23	Multidimensional Analysis of Magnetic Resonance Imaging Predicts Early Impairment in Thoracic and Thoracolumbar Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 954-962.	3.4	37
24	Motor Evoked Potentials Correlate With Magnetic Resonance Imaging and Early Recovery After Acute Spinal Cord Injury. <i>Neurosurgery</i> , 2018, 82, 870-876.	1.1	34
25	MR Imaging for Assessing Injury Severity and Prognosis in Acute Traumatic Spinal Cord Injury. <i>Radiologic Clinics of North America</i> , 2019, 57, 319-339.	1.8	33
26	Diagnostic blood RNA profiles for human acute spinal cord injury. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	31
27	Tumor Necrosis Factor Alpha Mediates GABA _A Receptor Trafficking to the Plasma Membrane of Spinal Cord Neurons <i>In Vivo</i> . <i>Neural Plasticity</i> , 2012, 2012, 1-11.	2.2	29
28	Mechanical Design and Analysis of a Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates. <i>Journal of Neurotrauma</i> , 2016, 33, 1136-1149.	3.4	29
29	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. <i>World Neurosurgery</i> , 2020, 133, e391-e396.	1.3	29
30	Differential fracture response to traumatic brain injury suggests dominance of neuroinflammatory response in polytrauma. <i>Scientific Reports</i> , 2019, 9, 12199.	3.3	28
31	Failure of Mean Arterial Pressure Goals to Improve Outcomes Following Penetrating Spinal Cord Injury. <i>Neurosurgery</i> , 2016, 79, 708-714.	1.1	26
32	Exploration of surgical blood pressure management and expected motor recovery in individuals with traumatic spinal cord injury. <i>Spinal Cord</i> , 2020, 58, 377-386.	1.9	24
33	AMPA Receptor Phosphorylation and Synaptic Colocalization on Motor Neurons Drive Maladaptive Plasticity below Complete Spinal Cord Injury. <i>ENeuro</i> , 2015, 2, ENEURO.0091-15.2015.	1.9	23
34	Leveraging biomedical informatics for assessing plasticity and repair in primate spinal cord injury. <i>Brain Research</i> , 2015, 1619, 124-138.	2.2	16
35	Topological network analysis of patient similarity for precision management of acute blood pressure in spinal cord injury. <i>ELife</i> , 2021, 10, .	6.0	15
36	Transforming Research and Clinical Knowledge in Spinal Cord Injury (TRACK-SCI): an overview of initial enrollment and demographics. <i>Neurosurgical Focus</i> , 2020, 48, E6.	2.3	12

#	ARTICLE	IF	CITATIONS
37	Excavating FAIR Data: the Case of the Multicenter Animal Spinal Cord Injury Study (MASCIS), Blood Pressure, and Neuro-Recovery. <i>Neuroinformatics</i> , 2022, 20, 39-52.	2.8	10
38	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). <i>Neuroinformatics</i> , 2022, 20, 203-219.	2.8	10
39	Diffusion-Weighted Magnetic Resonance Imaging Characterization of White Matter Injury Produced by Axon-Sparing Demyelination and Severe Contusion Spinal Cord Injury in Rats. <i>Journal of Neurotrauma</i> , 2016, 33, 929-942.	3.4	9
40	Expert-augmented automated machine learning optimizes hemodynamic predictors of spinal cord injury outcome. <i>PLoS ONE</i> , 2022, 17, e0265254.	2.5	9
41	Injury volume extracted from MRI predicts neurologic outcome in acute spinal cord injury: A prospective TRACK-SCI pilot study. <i>Journal of Clinical Neuroscience</i> , 2020, 82, 231-236.	1.5	6
42	Decision tree-based machine learning analysis of intraoperative vasopressor use to optimize neurological improvement in acute spinal cord injury. <i>Neurosurgical Focus</i> , 2022, 52, E9.	2.3	2