

Carolyn J Sparrey

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

568
citations

758635

12
h-index

642321

23
g-index

27
all docs

27
docs citations

27
times ranked

855
citing authors

#	ARTICLE	IF	CITATIONS
1	Etiology of lumbar lordosis and its pathophysiology: a review of the evolution of lumbar lordosis, and the mechanics and biology of lumbar degeneration. <i>Neurosurgical Focus</i> , 2014, 36, E1.	1.0	73
2	Effects of White, Grey, and Pia Mater Properties on Tissue Level Stresses and Strains in the Compressed Spinal Cord. <i>Journal of Neurotrauma</i> , 2009, 26, 585-595.	1.7	58
3	Detecting white matter activity using conventional 3T fMRI: An evaluation of standard field strength and hemodynamic response function. <i>NeuroImage</i> , 2018, 169, 145-150.	2.1	50
4	The Distribution of Tissue Damage in the Spinal Cord Is Influenced by the Contusion Velocity. <i>Spine</i> , 2008, 33, E812-E819.	1.0	46
5	Compression behavior of porcine spinal cord white matter. <i>Journal of Biomechanics</i> , 2011, 44, 1078-1082.	0.9	45
6	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.	1.7	42
7	Association Between Paraspinal Muscle Morphology, Clinical Symptoms, and Functional Status in Patients With Degenerative Cervical Myelopathy. <i>Spine</i> , 2017, 42, 232-239.	1.0	39
8	Morphological and postural sexual dimorphism of the lumbar spine facilitates greater lordosis in females. <i>Journal of Anatomy</i> , 2016, 229, 82-91.	0.9	37
9	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.	1.7	29
10	Compressive mechanical characterization of non-human primate spinal cord white matter. <i>Acta Biomaterialia</i> , 2018, 74, 260-269.	4.1	22
11	The Transverse Isotropy of Spinal Cord White Matter Under Dynamic Load. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	0.6	18
12	Correlating Tissue Mechanics and Spinal Cord Injury: Patient-Specific Finite Element Models of Unilateral Cervical Contusion Spinal Cord Injury in Non-Human Primates. <i>Journal of Neurotrauma</i> , 2021, 38, 698-717.	1.7	16
13	Classifying sitting, standing, and walking using plantar force data. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 257-270.	1.6	12
14	Absence of beta3 integrin accelerates early skeletal repair. <i>Journal of Orthopaedic Research</i> , 2010, 28, 32-37.	1.2	11
15	Probing Mechanical Properties of Jurkat Cells under the Effect of ART Using Oscillating Optical Tweezers. <i>PLoS ONE</i> , 2015, 10, e0126548.	1.1	11
16	The dynamics of electric powered wheelchair sideways tips and falls: experimental and computational analysis of impact forces and injury. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 20.	2.4	11
17	Manual wheelchair downhill stability: an analysis of factors affecting tip probability. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 95.	2.4	9
18	Differentiating Sitting, Standing, and Walking Through Regional Plantar Pressure Characteristics. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	8

#	ARTICLE	IF	CITATIONS
19	The Effect of Flash Freezing on Variability in Spinal Cord Compression Behavior. Journal of Biomechanical Engineering, 2009, 131, 111010.	0.6	6
20	The Effect of Parity on Age-Related Degenerative Changes in Sagittal Balance. Spine, 2020, 45, E210-E216.	1.0	6
21	The effects of gas assisted injection molding on the mechanical properties of medical grade thermoplastic elastomers. Polymer Testing, 2014, 38, 1-6.	2.3	4
22	Quantifying the effects of on-the-fly changes of seating configuration on the stability of a manual wheelchair. , 2017, 2017, 1897-1900.		4
23	The effects of physiological thermoregulation on the efficacy of surface cooling for therapeutic hypothermia. Medical and Biological Engineering and Computing, 2015, 53, 205-213.	1.6	3
24	The effects of paranodal myelin damage on action potential depend on axonal structure. Medical and Biological Engineering and Computing, 2018, 56, 395-411.	1.6	3
25	In vivo soft tissue compressive properties of the human hand. PLoS ONE, 2021, 16, e0261008.	1.1	3
26	Mechanical characterization of ART-treated Jurkat cells using optical tweezers. , 2014, 2014, 6806-9.		2
27	Effects of weld damage on the dynamics of energy-absorbing lanyards. International Journal of Occupational Safety and Ergonomics, 2017, 23, 533-543.	1.1	0