

Brittany Coats

List of Publications by Year in descending order

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44
papers

1,241
citations

471371

17
h-index

454834

30
g-index

44
all docs

44
docs citations

44
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropomorphic simulations of falls, shakes, and inflicted impacts in infants. <i>Journal of Neurosurgery</i> , 2003, 99, 143-150.	0.9	203
2	Material Properties of Human Infant Skull and Suture at High Rates. <i>Journal of Neurotrauma</i> , 2006, 23, 1222-1232.	1.7	191
3	Characterization and evaluation of tissue-mimicking gelatin phantoms for use with MRgFUS. <i>Journal of Therapeutic Ultrasound</i> , 2015, 3, 9.	2.2	95
4	White matter tract-oriented deformation predicts traumatic axonal brain injury and reveals rotational direction-specific vulnerabilities. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 877-896.	1.4	93
5	Material properties of porcine parietal cortex. <i>Journal of Biomechanics</i> , 2006, 39, 2521-2525.	0.9	76
6	Parametric study of head impact in the infant. <i>Stapp Car Crash Journal</i> , 2007, 51, 1-15.	1.1	68
7	Potential for head injuries in infants from low-height falls. <i>Journal of Neurosurgery: Pediatrics</i> , 2008, 2, 321-330.	0.8	57
8	Ocular Hemorrhages in Neonatal Porcine Eyes from Single, Rapid Rotational Events. , 2010, 51, 4792.		44
9	Finite element model predictions of intracranial hemorrhage from non-impact, rapid head rotations in the piglet. <i>International Journal of Developmental Neuroscience</i> , 2012, 30, 191-200.	0.7	36
10	Cyclic Head Rotations Produce Modest Brain Injury in Infant Piglets. <i>Journal of Neurotrauma</i> , 2017, 34, 235-247.	1.7	28
11	Biological Sample Preparation for SEM Imaging of Porcine Retina. <i>Microscopy Today</i> , 2012, 20, 28-31.	0.2	26
12	Age-related changes in dynamic moduli of ovine vitreous. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 41, 315-324.	1.5	24
13	Microstructural Characterization of the Pia-Arachnoid Complex Using Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1452-1459.	5.4	23
14	Infant skull fracture risk for low height falls. <i>International Journal of Legal Medicine</i> , 2019, 133, 847-862.	1.2	23
15	Stress profile of infant rib in the setting of child abuse: A finite element parametric study. <i>Journal of Biomechanics</i> , 2012, 45, 1861-1868.	0.9	22
16	Utilizing multiple scale models to improve predictions of extra-axial hemorrhage in the immature piglet. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1101-1119.	1.4	22
17	In Situ Deformations in the Immature Brain During Rapid Rotations. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 044501.	0.6	19
18	Biomechanics of the classic metaphyseal lesion: finite element analysis. <i>Pediatric Radiology</i> , 2017, 47, 1622-1630.	1.1	18

#	ARTICLE	IF	CITATIONS
19	Finite Element Design Optimization of a Hyaluronic Acid-Based Hydrogel Drug Delivery Device for Improved Retention. <i>Annals of Biomedical Engineering</i> , 2018, 46, 211-221.	1.3	17
20	Parametric Study of Head Impact in the Infant. , 0, , .		16
21	Spatial distribution of human arachnoid trabeculae. <i>Journal of Anatomy</i> , 2020, 237, 275-284.	0.9	15
22	Changes in Vitreoretinal Adhesion With Age and Region in Human and Sheep Eyes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 153.	2.0	14
23	Molded polymer-coated composite bone void filler improves tobramycin controlled release kinetics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1074-1083.	1.6	13
24	Long Term Temporal Changes in Structure and Function of Rat Visual System After Blast Exposure. , 2018, 59, 349.		12
25	Experimental Injury Biomechanics of the Pediatric Head and Brain. , 2013, , 157-189.		11
26	Biofidelic neck influences head kinematics of parietal and occipital impacts following short falls in infants. <i>Accident Analysis and Prevention</i> , 2015, 82, 143-153.	3.0	11
27	A simulation technique for 3D MR-guided acoustic radiation force imaging. <i>Medical Physics</i> , 2015, 42, 674-684.	1.6	10
28	An adaptive-remeshing framework to predict impact-induced skull fracture in infants. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1595-1605.	1.4	7
29	Mechanical characterization of the human pia-arachnoid complex. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 120, 104579.	1.5	7
30	What can we learn from computational model studies of the eye?. <i>Journal of AAPOS</i> , 2009, 13, 332.	0.2	6
31	Optimization of a Soft Robotic Bladder Array for Dissipating High Impact Loads: an Initial Study in Designing a Smart Helmet. , 2020, , .		5
32	Morphological Analysis of Retinal Microvasculature to Improve Understanding of Retinal Hemorrhage Mechanics in Infants. , 2020, 61, 16.		5
33	Abusive head trauma: scalp, subscalp, and cranium. , 0, , 357-393.		4
34	Coefficient of Friction Between Carboxymethylated Hyaluronic Acid-Based Polymer Films and the Ocular Surface. , 2017, 58, 6166.		4
35	High-Rate Anisotropic Properties in Human Infant Parietal and Occipital Bone. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	4
36	Biomechanics of pediatric TBI. , 2010, , 7-17.		3

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37	A New Vascular Coupler Design for End-to-End Anastomosis: Fabrication and Proof-of-Concept Evaluation. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.4	3
38	Optimization and Evaluation of a Vascular Coupling Device for End-to-End Anastomosis: A Finite-Element Analysis. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	2
39	The Effect of Impact Angle and Fall Height on Skull Fracture Patterns in Infants. Journal of Biomechanical Engineering, 2021, 143, .	0.6	2
40	Biomechanics of Head Trauma in Infants and Young Children. , 2011, , 359-363.		1
41	Abusive head trauma: clinical, biomechanical, and imaging considerations. , 0, , 345-356.		1
42	Biomechanical Forensics in Pediatric Head Trauma. , 2017, , 1-16.		0
43	Biomechanical Forensics in Pediatric Head Trauma. , 2018, , 2447-2462.		0
44	Cervical Muscle Activation Characteristics and Head Kinematics in Males and Females Following Acoustic Warnings and Impulsive Head Forces. Annals of Biomedical Engineering, 2021, 49, 3438.	1.3	0