

J Sebastian Giudice

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

515
citations

687220

13
h-index

839398

18
g-index

19
all docs

19
docs citations

19
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Explicit Modeling of White Matter Axonal Fiber Tracts in a Finite Element Brain Model. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1908-1922.	1.3	75
2	A Novel Method for Quantifying Human <i>In Situ</i> Whole Brain Deformation under Rotational Loading Using Sonomicrometry. <i>Journal of Neurotrauma</i> , 2018, 35, 780-789.	1.7	70
3	An Analytical Review of the Numerical Methods used for Finite Element Modeling of Traumatic Brain Injury. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1855-1872.	1.3	69
4	Biomechanics of the Human Brain during Dynamic Rotation of the Head. <i>Journal of Neurotrauma</i> , 2020, 37, 1546-1555.	1.7	43
5	Evaluation of Tissue-Level Brain Injury Metrics Using Species-Specific Simulations. <i>Journal of Neurotrauma</i> , 2021, 38, 1879-1888.	1.7	37
6	Development of Open-Source Dummy and Impactor Models for the Assessment of American Football Helmet Finite Element Models. <i>Annals of Biomedical Engineering</i> , 2019, 47, 464-474.	1.3	35
7	Investigation of Cross-Species Scaling Methods for Traumatic Brain Injury Using Finite Element Analysis. <i>Journal of Neurotrauma</i> , 2020, 37, 410-422.	1.7	35
8	An Image Registration-Based Morphing Technique for Generating Subject-Specific Brain Finite Element Models. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2412-2424.	1.3	25
9	Predicting Concussion Outcome by Integrating Finite Element Modeling and Network Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 309.	2.0	24
10	Calibration of a Heterogeneous Brain Model Using a Subject-Specific Inverse Finite Element Approach. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 664268.	2.0	18
11	Finite Element Model of a Deformable American Football Helmet Under Impact. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1524-1539.	1.3	17
12	Integrating Human and Nonhuman Primate Data to Estimate Human Tolerances for Traumatic Brain Injury. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	0.6	17
13	The Effect of Muscle Activation on Head Kinematics During Non-injurious Head Impacts in Human Subjects. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2751-2762.	1.3	16
14	Application of trilateration and Kalman filtering algorithms to track dynamic brain deformation using sonomicrometry. <i>Biomedical Signal Processing and Control</i> , 2020, 56, 101691.	3.5	15
15	Toward subject-specific evaluation: methods of evaluating finite element brain models using experimental high-rate rotational brain motion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 2301-2317.	1.4	11
16	Evaluation and injury investigation of a finite element foot and ankle model for small female occupants. <i>International Journal of Crashworthiness</i> , 2019, 24, 580-591.	1.1	4
17	A Cortical Thickness Mapping Method for the Coxal Bone Using Morphing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 149.	2.0	2
18	The Risk of Skin Injury Caused by High-Rate Blunt Impacts to the Human Thorax. <i>Human Factors and Mechanical Engineering for Defense and Safety</i> , 2022, 6, 1.	2.4	2

#	ARTICLE	IF	CITATIONS
19	Evaluation of an In Situ Ovine Model as a Surrogate for Human Skin Injury Caused by High-Rate Blunt Impact. Human Factors and Mechanical Engineering for Defense and Safety, 2022, 6, 1.	2.4	0