

Yoann Lafon

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

289
citations

933447

10
h-index

940533

16
g-index

21
all docs

21
docs citations

21
times ranked

340
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical modelling of orthotic treatment of the scoliotic spine including a detailed representation of the brace-torso interface. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 339-344.	2.8	56
2	Intraoperative Three-Dimensional Correction During Rod Rotation Technique. <i>Spine</i> , 2009, 34, 512-519.	2.0	35
3	Analysis of Idiopathic Scoliosis Progression by Using Numerical Simulation. <i>Spine</i> , 2010, 35, E407-E412.	2.0	31
4	The effects of posture and subject-to-subject variations on the position, shape and volume of abdominal and thoracic organs. <i>Stapp Car Crash Journal</i> , 2009, 53, 127-54.	1.1	28
5	Finite element simulation of spinal deformities correction by in situ contouring technique. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 331-337.	1.6	20
6	Combination of a model-deformation method and a positional MRI to quantify the effects of posture on the anatomical structures of the trunk. <i>Journal of Biomechanics</i> , 2010, 43, 1269-1278.	2.1	20
7	In Vivo Distribution of Spinal Intervertebral Stiffness Based on Clinical Flexibility Tests. <i>Spine</i> , 2010, 35, 186-193.	2.0	17
8	Comparison of Kriging and Moving Least Square Methods to Change the Geometry of Human Body Models. <i>Stapp Car Crash Journal</i> , 2015, 59, 337-57.	1.1	17
9	Intraoperative Three Dimensional Correction During In Situ Contouring Surgery by Using a Numerical Model. <i>Spine</i> , 2010, 35, 453-459.	2.0	16
10	The Effects of Posture and Subject-to-Subject Variations on the Position, Shape and Volume of Abdominal and Thoracic Organs. , 0, , .		13
11	Kinematics of the Normal Knee during Dynamic Activities: A Synthesis of Data from Intracortical Pins and Biplane Imaging. <i>Applied Bionics and Biomechanics</i> , 2017, 2017, 1-9.	1.1	11
12	Multi-objective optimisation for musculoskeletal modelling: Application to a planar elbow model. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 1108-1113.	1.8	5
13	Modeling of the Thigh. , 2017, , 497-521.		5
14	Influence of glenohumeral joint muscle insertion on moment arms using a finite element model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1117-1126.	1.6	5
15	Dynamic estimation of soft tissue stiffness for use in modeling socket, orthosis or exoskeleton interfaces with lower limb segments. <i>Journal of Biomechanics</i> , 2022, 134, 110987.	2.1	4
16	A Method to Use Kriging With Large Sets of Control Points to Morph Finite Element Models of the Human Body. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	3
17	Effect of the muscle activation level distribution on normal stress field: a numerical study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 164-166.	1.6	2
18	Analysis of the mechanisms of idiopathic scoliosis progression using finite element simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 91-92.	1.6	1

#	ARTICLE	IF	CITATIONS
19	Morphometric analysis of vertebral deformities in a porcine scoliosis model. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 41-42.	1.6	0
20	A Markerless Method for Personalizing a Digital Human Model from a 3D Body Surface Scan. , 2015, , .		0
21	Geometrical and Mechanical Characterization of the Abdominal Fold of Obese Post Mortem Human Subjects for Use in Human Body Modelling. Stapp Car Crash Journal, 2020, 64, 213-267.	1.1	0