

Fulvia Taddei

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,040
citations

109137

35
h-index

88477

70
g-index

90
all docs

90
docs citations

90
times ranked

2968
citing authors

#	ARTICLE	IF	CITATIONS
1	Custom-made 3D-Printed Prosthesis in Periacetabular Resections Through a Novel Ileo-adductor Approach. <i>Orthopedics</i> , 2022, 45, 1-5.	0.5	9
2	Abductor muscle strengthening in THA patients operated with minimally-invasive anterolateral approach for developmental hip dysplasia. <i>HIP International</i> , 2021, 31, 66-74.	0.9	11
3	Effects of Hip Abductor Strengthening on Musculoskeletal Loading in Hip Dysplasia Patients after Total Hip Replacement. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2123.	1.3	7
4	A taper-fit junction to improve long bone reconstruction: A parametric In Silico model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104790.	1.5	1
5	Finite Element Assessment of Bone Fragility from Clinical Images. <i>Current Osteoporosis Reports</i> , 2021, 19, 688-698.	1.5	7
6	Cortical bone mapping improves finite element strain prediction accuracy at the proximal femur. <i>Bone</i> , 2020, 136, 115348.	1.4	22
7	Component positioning and ceramic damage in cementless ceramic-on-ceramic total hip arthroplasty. <i>Journal of Orthopaedic Science</i> , 2019, 24, 643-651.	0.5	8
8	THE EFFECT OF COMPUTED TOMOGRAPHY CURRENT REDUCTION ON PROXIMAL FEMUR SUBJECT-SPECIFIC FINITE ELEMENT MODELS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017, 17, 1750012.	0.3	4
9	Relationship between bone adaptation and in-vivo mechanical stimulus in biological reconstructions after bone tumor: A biomechanical modeling analysis. <i>Clinical Biomechanics</i> , 2017, 42, 99-107.	0.5	5
10	Bone adaptation of a biologically reconstructed femur after Ewing sarcoma: Long-term morphological and densitometric evolution. <i>Skeletal Radiology</i> , 2017, 46, 1271-1276.	1.2	5
11	nmsBuilder : Freeware to create subject-specific musculoskeletal models for OpenSim. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 152, 85-92.	2.6	81
12	Can CT image deblurring improve finite element predictions at the proximal femur?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 337-351.	1.5	22
13	Left-right differences in the proximal femur's strength of post-menopausal women: a multicentric finite element study. <i>Osteoporosis International</i> , 2016, 27, 1519-1528.	1.3	12
14	Navigation in Orthognathic Surgery: 3D Accuracy. <i>Facial Plastic Surgery</i> , 2015, 31, 463-473.	0.5	34
15	Sensitivity of a subject-specific musculoskeletal model to the uncertainties on the joint axes location. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1555-1563.	0.9	58
16	Strain distribution in the proximal Human femur during in vitro simulated sideways fall. <i>Journal of Biomechanics</i> , 2015, 48, 2130-2143.	0.9	46
17	Effect of lower-limb joint models on subject-specific musculoskeletal models and simulations of daily motor activities. <i>Journal of Biomechanics</i> , 2015, 48, 4198-4205.	0.9	33
18	Are Subject-Specific Musculoskeletal Models Robust to the Uncertainties in Parameter Identification?. <i>PLoS ONE</i> , 2014, 9, e112625.	1.1	146

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19	Large-Scale Finite Element Analysis of Human Cancellous Bone Tissue Micro Computer Tomography Data: A Convergence Study. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 101013.	0.6	15
20	Inter-individual variability of bone density and morphology distribution in the proximal femur and T12 vertebra. <i>Bone</i> , 2014, 60, 213-220.	1.4	21
21	To what extent can linear finite element models of human femora predict failure under stance and fall loading configurations?. <i>Journal of Biomechanics</i> , 2014, 47, 3531-3538.	0.9	125
22	European Society of Biomechanics S.M. Perren Award 2014: Safety factor of the proximal femur during gait: A population-based finite element study. <i>Journal of Biomechanics</i> , 2014, 47, 3433-3440.	0.9	23
23	Comprehensive evaluation of PCA-based finite element modelling of the human femur. <i>Medical Engineering and Physics</i> , 2014, 36, 1246-1252.	0.8	22
24	Multiple loading conditions analysis can improve the association between finite element bone strength estimates and proximal femur fractures: A preliminary study in elderly women. <i>Bone</i> , 2014, 67, 71-80.	1.4	135
25	Locally measured microstructural parameters are better associated with vertebral strength than whole bone density. <i>Osteoporosis International</i> , 2014, 25, 1285-1296.	1.3	17
26	Specimen-specific modeling of hip fracture pattern and repair. <i>Journal of Biomechanics</i> , 2014, 47, 536-543.	0.9	58
27	Computational tools for calculating alternative muscle force patterns during motion: A comparison of possible solutions. <i>Journal of Biomechanics</i> , 2013, 46, 2097-2100.	0.9	20
28	A novel approach to estimate trabecular bone anisotropy using a database approach. <i>Journal of Biomechanics</i> , 2013, 46, 2356-2362.	0.9	40
29	Influence of weak hip abductor muscles on joint contact forces during normal walking: probabilistic modeling analysis. <i>Journal of Biomechanics</i> , 2013, 46, 2186-2193.	0.9	68
30	Biomechanical robustness of a new proximal epiphyseal hip replacement to patient variability and surgical uncertainties: A FE study. <i>Medical Engineering and Physics</i> , 2012, 34, 161-171.	0.8	22
31	Muscle discretization affects the loading transferred to bones in lower-limb musculoskeletal models. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012, 226, 161-169.	1.0	19
32	Accuracy of finite element predictions in sideways load configurations for the proximal human femur. <i>Journal of Biomechanics</i> , 2012, 45, 394-399.	0.9	158
33	Are spontaneous fractures possible? An example of clinical application for personalised, multiscale neuro-musculo-skeletal modelling. <i>Journal of Biomechanics</i> , 2012, 45, 421-426.	0.9	109
34	Femoral loads during gait in a patient with massive skeletal reconstruction. <i>Clinical Biomechanics</i> , 2012, 27, 273-280.	0.5	36
35	Assessment of femoral neck fracture risk for a novel proximal epiphyseal hip prosthesis. <i>Clinical Biomechanics</i> , 2011, 26, 585-591.	0.5	9
36	Compressive behaviour of child and adult cortical bone. <i>Bone</i> , 2011, 49, 769-776.	1.4	129

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37	A new hip epiphyseal prosthesis: Design revision driven by a validated numerical procedure. <i>Medical Engineering and Physics</i> , 2011, 33, 1203-1211.	0.8	17
38	Multimodal fusion of biomedical data at different temporal and dimensional scales. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 102, 227-237.	2.6	21
39	Effect of sub-optimal neuromotor control on the hip joint load during level walking. <i>Journal of Biomechanics</i> , 2011, 44, 1716-1721.	0.9	42
40	Extensive Risk Analysis of Mechanical Failure for an Epiphyseal Hip Prosthesis: A Combined Numerical-Experimental Approach. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2011, 225, 126-140.	1.0	23
41	Enabling the interactive display of large medical volume datasets by multiresolution bricking. <i>Journal of Supercomputing</i> , 2010, 51, 3-19.	2.4	13
42	Effect of a virtual reality interface on the learning curve and on the accuracy of a surgical planner for total hip replacement. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 97, 86-91.	2.6	10
43	Mechanical testing of bones: the positive synergy of finite element models and <i>in vitro</i> experiments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2725-2763.	1.6	63
44	Finite Element Modeling of Resurfacing Hip Prosthesis: Estimation of Accuracy Through Experimental Validation. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 021002.	0.6	18
45	Stress shielding and stress concentration of contemporary epiphyseal hip prostheses. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2009, 223, 27-44.	1.0	24
46	Strain distribution in the proximal human femoral metaphysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2009, 223, 273-288.	1.0	62
47	Letter to the Editor commenting on "Multilevel finite element modeling for the prediction of local cellular deformation in bone," Deligianni DD and Apostolopoulos CA (2008) <i>Biomech Model Mechanobiol</i> 7(2):151-159. <i>Biomechanics and Modeling in Mechanobiology</i> , 2009, 8, 427-428.	1.4	1
48	Pre-clinical validation of joint prostheses: A systematic approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 120-127.	1.5	31
49	Letter to the Editor referring to the article "Some basic relationship between density values in cancellous bone and cortical bone" published on <i>Journal of Biomechanics</i> (volume 41, Issue 9, Pages) Tj ETQq1 0.784314 rgBT / 0		
50	Tibia Adaptation after Fibula Harvesting: An in Vivo Quantitative Study. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 2149-2158.	0.7	16
51	An accurate estimation of bone density improves the accuracy of subject-specific finite element models. <i>Journal of Biomechanics</i> , 2008, 41, 2483-2491.	0.9	333
52	Subject-specific finite element models implementing a maximum principal strain criterion are able to estimate failure risk and fracture location on human femurs tested in vitro. <i>Journal of Biomechanics</i> , 2008, 41, 356-367.	0.9	304
53	A modified method for assigning material properties to FE models of bones. <i>Medical Engineering and Physics</i> , 2008, 30, 444-453.	0.8	122
54	Sensitivity of the Primary Stability of a Cementless Hip Stem to Its Position and Orientation. <i>Artificial Organs</i> , 2008, 32, 555-560.	1.0	14

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55	Vascularised fibula graft inlaid in a massive bone allograft: Considerations on the bio-mechanical behaviour of the combined graft in segmental bone reconstructions after sarcoma resection. <i>Injury</i> , 2008, 39, 68-74.	0.7	37
56	Mathematical relationships between bone density and mechanical properties: A literature review. <i>Clinical Biomechanics</i> , 2008, 23, 135-146.	0.5	453
57	Multiscale modelling of the skeleton for the prediction of the risk of fracture. <i>Clinical Biomechanics</i> , 2008, 23, 845-852.	0.5	36
58	A new meshless approach for subject-specific strain prediction in long bones: Evaluation of accuracy. <i>Clinical Biomechanics</i> , 2008, 23, 1192-1199.	0.5	27
59	Experimental Validation of a Finite Element Model of a Human Cadaveric Tibia. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 031016.	0.6	87
60	3D Multiscale Visualisation for Medical Datasets. , 2008, , .		4
61	Fast 3D mesh generation of femur based on planar parameterization and morphing. , 2008, , .		4
62	Multiscale investigation of the functional properties of the human femur. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3319-3341.	1.6	41
63	Experimental validation of a finite element model of a composite tibia. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 315-324.	1.0	24
64	Virtual palpation of skeletal landmarks with multimodal display interfaces. <i>Informatics for Health and Social Care</i> , 2007, 32, 191-198.	1.0	19
65	Changes in femur stress after hip resurfacing arthroplasty: Response to physiological loads. <i>Clinical Biomechanics</i> , 2007, 22, 440-448.	0.5	65
66	Subject-specific finite element models can accurately predict strain levels in long bones. <i>Journal of Biomechanics</i> , 2007, 40, 2982-2989.	0.9	274
67	In vitro replication of spontaneous fractures of the proximal human femur. <i>Journal of Biomechanics</i> , 2007, 40, 2837-2845.	0.9	112
68	The multimod application framework: A rapid application development tool for computer aided medicine. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 85, 138-151.	2.6	51
69	Multimod Data Manager: A tool for data fusion. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 87, 148-159.	2.6	34
70	The material mapping strategy influences the accuracy of CT-based finite element models of bones: An evaluation against experimental measurements. <i>Medical Engineering and Physics</i> , 2007, 29, 973-979.	0.8	251
71	Biomechanics Modeling of the Musculoskeletal Apparatus: Status and Key Issues. <i>Proceedings of the IEEE</i> , 2006, 94, 725-739.	16.4	40
72	A new software tool for 3D motion analyses of the musculo-skeletal system. <i>Clinical Biomechanics</i> , 2006, 21, 870-879.	0.5	20

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73	Biomechanical Testing of the Proximal Femoral Epiphysis: Intact and Implanted Condition. , 2006, , 431.		3
74	Subject-specific finite element models of long bones: An in vitro evaluation of the overall accuracy. Journal of Biomechanics, 2006, 39, 2457-2467.	0.9	212
75	Finite-Element Modeling of Bones From CT Data: Sensitivity to Geometry and Material Uncertainties. IEEE Transactions on Biomedical Engineering, 2006, 53, 2194-2200.	2.5	88
76	Kinematic study of a reconstructed hip in paediatric oncology. Medical and Biological Engineering and Computing, 2005, 43, 102-106.	1.6	5
77	MULTIMODAL DISPLAY INTERFACE FOR PLANNING AND MONITORING COMPLEX SKELETAL RECONSTRUCTIONS. Journal of Mechanics in Medicine and Biology, 2005, 05, 465-468.	0.3	1
78	New aspects and approaches in pre-operative planning of hip reconstruction: a computer simulation. Langenbeck's Archives of Surgery, 2004, 389, 400-404.	0.8	18
79	Automatic generation of accurate subject-specific bone finite element models to be used in clinical studies. Journal of Biomechanics, 2004, 37, 1597-1605.	0.9	139
80	An improved method for the automatic mapping of computed tomography numbers onto finite element models. Medical Engineering and Physics, 2004, 26, 61-69.	0.8	234
81	Mechanical strength of a femoral reconstruction in paediatric oncology: A finite element study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2003, 217, 111-119.	1.0	42
82	Automatic Generation of Finite Element Meshes from Computed Tomography Data. Critical Reviews in Biomedical Engineering, 2003, 31, 27-72.	0.5	40
83	Growth and remodelling of the autologous bone transplant used in a pediatric femoral reconstruction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2002, 216, 95-104.	1.0	11