

Junning Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

729
citations

16
h-index

26
g-index

46
ext. papers

874
ext. citations

3.2
avg, IF

3.98
L-index

#	Paper	IF	Citations
46	Bone remodeling following mandibular reconstruction using fibula free flap.. <i>Journal of Biomechanics</i> , 2022 , 133, 110968	2.9	1
45	The biomechanics of metaphyseal cone augmentation in revision knee replacement.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 131, 105233	4.1	
44	Microstructural heterogeneity of the collagenous network in the loaded and unloaded periodontal ligament and its biomechanical implications. <i>Journal of Structural Biology</i> , 2021 , 213, 107772	3.4	0
43	On design for additive manufacturing (DAM) parameter and its effects on biomechanical properties of 3D printed ceramic scaffolds. <i>Materials Today Communications</i> , 2020 , 23, 101065	2.5	2
42	Multi-scale modeling and mechanical performance characterization of stingray skeleton-inspired tessellations. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 138, 103906	5	6
41	Effect of different implant configurations on biomechanical behavior of full-arch implant-supported mandibular monolithic zirconia fixed prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103490	4.1	4
40	Network architecture strongly influences the fluid flow pattern through the lacunocanalicular network in human osteons. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 823-840	3.8	20
39	The mystery of coconut overturns the crashworthiness design of composite materials. <i>International Journal of Mechanical Sciences</i> , 2020 , 168, 105244	5.5	11
38	Effects of buccal thickness augmentation on bone remodeling after maxillary anterior implantation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 133-145	3.8	3
37	In vivo effects of different orthodontic loading on root resorption and correlation with mechanobiological stimulus in periodontal ligament. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190108	4.1	12
36	The contribution of the pericanalicular matrix to mineral content in human osteonal bone. <i>Bone</i> , 2019 , 123, 76-85	4.7	24
35	Investigation on masticatory muscular functionality following oral reconstruction - An inverse identification approach. <i>Journal of Biomechanics</i> , 2019 , 90, 1-8	2.9	10
34	Biomechanical analysis of bone remodeling following mandibular reconstruction using fibula free flap. <i>Medical Engineering and Physics</i> , 2018 , 56, 1-8	2.4	16
33	Micro-CT based modelling for characterising injection-moulded porous titanium implants. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017 , 33, e02779	2.6	6
32	Bone morphological effects on post-implantation remodeling of maxillary anterior buccal bone: A clinical and biomechanical study. <i>Journal of Prosthodontic Research</i> , 2017 , 61, 393-402	4.3	17
31	Multiobjective optimization of cartilage stress for non-invasive, patient-specific recommendations of high tibial osteotomy correction angle - a novel method to investigate alignment correction. <i>Medical Engineering and Physics</i> , 2017 , 42, 26-34	2.4	15
30	Computational and clinical investigation on the role of mechanical vibration on orthodontic tooth movement. <i>Journal of Biomechanics</i> , 2017 , 60, 57-64	2.9	17

29	Simulation of multi-stage nonlinear bone remodeling induced by fixed partial dentures of different configurations: a comparative clinical and numerical study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 411-423	3.8	7
28	Multiscale Remodelling and Topographical Optimisation for Porous Implant Surface Morphology Design. <i>Springer Series in Biomaterials Science and Engineering</i> , 2017 , 71-105	0.6	2
27	Bone metabolism induced by denture insertion in positron emission tomography. <i>Journal of Oral Rehabilitation</i> , 2016 , 43, 198-204	3.4	1
26	Design of transversely-graded foam and wall thickness structures for crashworthiness criteria. <i>Composites Part B: Engineering</i> , 2016 , 92, 338-349	10	71
25	Topological design of all-ceramic dental bridges for enhancing fracture resistance. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016 , 32, e02749	2.6	23
24	Smoothed finite element method for analysis of multi-layered systems [Applications in biomaterials. <i>Computers and Structures</i> , 2016 , 168, 16-29	4.5	15
23	Biomechanical investigation into the role of the periodontal ligament in optimising orthodontic force: a finite element case study. <i>Archives of Oral Biology</i> , 2016 , 66, 98-107	2.8	41
22	Determination of oral mucosal Poisson's ratio and coefficient of friction from in-vivo contact pressure measurements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 357-65	2.1	11
21	The Relationship of Mandibular Morphology with Residual Ridge Resorption Associated with Implant-Retained Overdentures. <i>International Journal of Prosthodontics</i> , 2016 , 29, 573-580	1.9	2
20	An In Vivo Study on Load Distribution in Different Implant Configurations for Supporting Fixed Partial Dentures. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016 , 31, 1049-57	2.8	5
19	Role of implant configurations supporting three-unit fixed partial denture on mandibular bone response: biological-data-based finite element study. <i>Journal of Oral Rehabilitation</i> , 2016 , 43, 692-701	3.4	19
18	A comparative study on complete and implant retained denture treatments: a biomechanics perspective. <i>Journal of Biomechanics</i> , 2015 , 48, 512-9	2.9	42
17	Bone's responses to different designs of implant-supported fixed partial dentures. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 403-11	3.8	26
16	Mechanobiological bone reaction quantified by positron emission tomography. <i>Journal of Dental Research</i> , 2015 , 94, 738-44	8.1	13
15	Biomechanics of oral mucosa. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150325	4.1	54
14	Investigation of mucosa-induced residual ridge resorption under implant-retained overdentures and complete dentures in the mandible. <i>International Journal of Oral and Maxillofacial Implants</i> , 2015 , 30, 657-66	2.8	24
13	Shape Optimization for Additive Manufacturing of Removable Partial Dentures--A New Paradigm for Prosthetic CAD/CAM. <i>PLoS ONE</i> , 2015 , 10, e0132552	3.7	32
12	Computational modeling of dynamic behaviors of human teeth. <i>Journal of Biomechanics</i> , 2015 , 48, 4214-20		15

11	A periodontal ligament driven remodeling algorithm for orthodontic tooth movement. <i>Journal of Biomechanics</i> , 2014 , 47, 1689-95	2.9	65
10	Comparing Contact Pressure Induced by a Conventional Complete Denture and an Implant-Retained Overdenture. <i>Applied Mechanics and Materials</i> , 2014 , 553, 384-389	0.3	2
9	Validate Mandible Finite Element Model under Removable Partial Denture (RPD) with In Vivo Pressure Measurement. <i>Applied Mechanics and Materials</i> , 2014 , 553, 322-326	0.3	4
8	Magnetic Resonance Imaging (MRI) Based Finite Element Modeling for Analyzing the Influence of Material Properties on Menisci Responses. <i>Applied Mechanics and Materials</i> , 2014 , 553, 305-309	0.3	4
7	Impaction Loads Resulting in Intraoperative Periprosthetic Femoral Fracture: A Finite Element Study. <i>Applied Mechanics and Materials</i> , 2014 , 553, 299-304	0.3	
6	Role of Mechanical Stimuli in Oral Implantation. <i>Journal of Biosciences and Medicines</i> , 2014 , 02, 63-68	0.2	1
5	Bioinspired lightweight cellular materials--understanding effects of natural variation on mechanical properties. <i>Materials Science and Engineering C</i> , 2013 , 33, 3146-52	8.3	9
4	Multiscale design of surface morphological gradient for osseointegration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 20, 387-97	4.1	56
3	Porous Titanium Implant and Micro-CT Based Characterization of Sub-Surface Morphology 2013 , 1579-1586		
2	Porous Titanium Implant and Micro-CT Based Characterization of Sub-Surface Morphology 2013 , 1579-1586		
1	Mechanical simulation of the human mandible with and without an endosseous implant. <i>Medical Engineering and Physics</i> , 1994 , 16, 53-61	2.4	21