

Junning Chen

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,030
citations

361296

20
h-index

434063

31
g-index

46
all docs

46
docs citations

46
times ranked

1184
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of transversely-graded foam and wall thickness structures for crashworthiness criteria. Composites Part B: Engineering, 2016, 92, 338-349.	5.9	89
2	A periodontal ligament driven remodeling algorithm for orthodontic tooth movement. Journal of Biomechanics, 2014, 47, 1689-1695.	0.9	80
3	Biomechanics of oral mucosa. Journal of the Royal Society Interface, 2015, 12, 20150325.	1.5	79
4	Multiscale design of surface morphological gradient for osseointegration. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 387-397.	1.5	63
5	Biomechanical investigation into the role of the periodontal ligament in optimising orthodontic force: a finite element case study. Archives of Oral Biology, 2016, 66, 98-107.	0.8	59
6	A comparative study on complete and implant retained denture treatments – A biomechanics perspective. Journal of Biomechanics, 2015, 48, 512-519.	0.9	50
7	Shape Optimization for Additive Manufacturing of Removable Partial Dentures - A New Paradigm for Prosthetic CAD/CAM. PLoS ONE, 2015, 10, e0132552.	1.1	44
8	Network architecture strongly influences the fluid flow pattern through the lacunocanalicular network in human osteons. Biomechanics and Modeling in Mechanobiology, 2020, 19, 823-840.	1.4	43
9	Bone's responses to different designs of implant-supported fixed partial dentures. Biomechanics and Modeling in Mechanobiology, 2015, 14, 403-411.	1.4	36
10	<i>In vivo</i> effects of different orthodontic loading on root resorption and correlation with mechanobiological stimulus in periodontal ligament. Journal of the Royal Society Interface, 2019, 16, 20190108.	1.5	34
11	The contribution of the pericanalicular matrix to mineral content in human osteonal bone. Bone, 2019, 123, 76-85.	1.4	33
12	Investigation of Mucosa-Induced Residual Ridge Resorption Under Implant-Retained Overdentures and Complete Dentures in the Mandible. International Journal of Oral and Maxillofacial Implants, 2015, 30, 657-666.	0.6	31
13	Topological design of all-ceramic dental bridges for enhancing fracture resistance. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02749.	1.0	30
14	The mystery of coconut overturns the crashworthiness design of composite materials. International Journal of Mechanical Sciences, 2020, 168, 105244.	3.6	28
15	Computational and clinical investigation on the role of mechanical vibration on orthodontic tooth movement. Journal of Biomechanics, 2017, 60, 57-64.	0.9	25
16	Biomechanical analysis of bone remodeling following mandibular reconstruction using fibula free flap. Medical Engineering and Physics, 2018, 56, 1-8.	0.8	24
17	Mechanical simulation of the human mandible with and without an endosseous implant. Medical Engineering and Physics, 1994, 16, 53-61.	0.8	23
18	Bone morphological effects on post-implantation remodeling of maxillary anterior buccal bone: A clinical and biomechanical study. Journal of Prosthodontic Research, 2017, 61, 393-402.	1.1	22

#	ARTICLE	IF	CITATIONS
19	Role of implant configurations supporting three-unit fixed partial denture on mandibular bone response: biological-based finite element study. <i>Journal of Oral Rehabilitation</i> , 2016, 43, 692-701.	1.3	21
20	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.	0.8	20
21	Smoothed finite element method for analysis of multi-layered systems – Applications in biomaterials. <i>Computers and Structures</i> , 2016, 168, 16-29.	2.4	19
22	Computational modeling of dynamic behaviors of human teeth. <i>Journal of Biomechanics</i> , 2015, 48, 4214-4220.	0.9	17
23	Investigation on masticatory muscular functionality following oral reconstruction – An inverse identification approach. <i>Journal of Biomechanics</i> , 2019, 90, 1-8.	0.9	17
24	Mechanobiological Bone Reaction Quantified by Positron Emission Tomography. <i>Journal of Dental Research</i> , 2015, 94, 738-744.	2.5	14
25	Determination of oral mucosal Poisson's ratio and coefficient of friction from <i>in-vivo</i> contact pressure measurements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 357-365.	0.9	13
26	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.	2.3	13
27	Bioinspired lightweight cellular materials - Understanding effects of natural variation on mechanical properties. <i>Materials Science and Engineering C</i> , 2013, 33, 3146-3152.	3.8	12
28	Effects of buccal thickness augmentation on bone remodeling after maxillary anterior implantation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 133-145.	1.4	12
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.	1.4	11
30	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.	1.5	10
31	Bone remodeling following mandibular reconstruction using fibula free flap. <i>Journal of Biomechanics</i> , 2022, 133, 110968.	0.9	10
32	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, 1049-1057.	0.6	8
33	The Relationship of Mandibular Morphology with Residual Ridge Resorption Associated with Implant-Retained Overdentures. <i>International Journal of Prosthodontics</i> , 2016, 29, 573-580.	0.7	7
34	Micro-CT based modelling for characterising injection-moulded porous titanium implants. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02779.	1.0	7
35	Magnetic Resonance Imaging (MRI) Based Finite Element Modeling for Analyzing the Influence of Material Properties on Menisci Responses. <i>Applied Mechanics and Materials</i> , 0, 553, 305-309.	0.2	6
36	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.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Validate Mandible Finite Element Model under Removable Partial Denture (RPD) with &In Vivo& Pressure Measurement. Applied Mechanics and Materials, 0, 553, 322-326.	0.2	4
38	On design for additive manufacturing (DAM) parameter and its effects on biomechanical properties of 3D printed ceramic scaffolds. Materials Today Communications, 2020, 23, 101065.	0.9	3
39	Multiscale Remodelling and Topographical Optimisation for Porous Implant Surface Morphology Design. Springer Series in Biomaterials Science and Engineering, 2017, , 71-105.	0.7	3
40	Comparing Contact Pressure Induced by a Conventional Complete Denture and an Implant-Retained Overdenture. Applied Mechanics and Materials, 2014, 553, 384-389.	0.2	2
41	Bone metabolism induced by denture insertion in positron emission tomography. Journal of Oral Rehabilitation, 2016, 43, 198-204.	1.3	1
42	Role of Mechanical Stimuli in Oral Implantation. Journal of Biosciences and Medicines, 2014, 02, 63-68.	0.1	1
43	Impaction Loads Resulting in Intraoperative Periprosthetic Femoral Fracture: A Finite Element Study. Applied Mechanics and Materials, 2014, 553, 299-304.	0.2	0
44	Porous Titanium Implant and Micro-CT Based Characterization of Sub-Surface Morphology. , 2013, , 1579-1586.		0
45	The biomechanics of metaphyseal cone augmentation in revision knee replacement. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 131, 105233.	1.5	0