

# Zhan Liu

## List of Publications by Year in descending order

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46  
papers

524  
citations

759233

12  
h-index

752698

20  
g-index

47  
all docs

47  
docs citations

47  
times ranked

268  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Framework Nucleic Acid Based Robotic Nanobee for Active Targeting Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2007342.	14.9	65
2	Comparative evaluation on three-dimensional finite element models of the temporomandibular joint. <i>Clinical Biomechanics</i> , 2008, 23, S53-S58.	1.2	55
3	Effects of several temporomandibular disorders on the stress distributions of temporomandibular joint: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 137-143.	1.6	40
4	Morphologic Analysis of the Temporomandibular Joint Between Patients With Facial Asymmetry and Asymptomatic Subjects by 2D and 3D Evaluation. <i>Medicine (United States)</i> , 2016, 95, e3052.	1.0	37
5	The influence of bilateral sagittal split ramus osteotomy on the stress distributions in the temporomandibular joints of the patients with facial asymmetry under symmetric occlusions. <i>Medicine (United States)</i> , 2018, 97, e11204.	1.0	26
6	Biomechanical behaviour of temporomandibular joints during opening and closing of the mouth: A 3D finite element analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3373.	2.1	24
7	Sagittal plane rotation center of lower lumbar spine during a dynamic weight-lifting activity. <i>Journal of Biomechanics</i> , 2016, 49, 371-375.	2.1	20
8	The Biomechanical Effects of Sagittal Split Ramus Osteotomy on Temporomandibular Joint. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 617-624.	1.6	20
9	Comparison of Morphologic Parameters of Temporomandibular Joint for Asymptomatic Subjects Using the Two-Dimensional and Three-Dimensional Measuring Methods. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-8.	1.9	19
10	Biomechanical comparison of temporomandibular joints after orthognathic surgery before and after design optimization. <i>Medical Engineering and Physics</i> , 2019, 68, 11-16.	1.7	18
11	Effects on loads in temporomandibular joints for patients with mandibular asymmetry before and after orthognathic surgeries under the unilateral molar clenching. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 533-541.	2.8	18
12	Morphological study of the changes after sagittal split ramus osteotomy in patients with facial asymmetry: measurements of 3-dimensional modelling. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2018, 56, 925-930.	0.8	16
13	3D Printing Experimental Validation of the Finite Element Analysis of the Maxillofacial Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 694140.	4.1	16
14	Biomechanical responses of temporomandibular joints during the lateral protrusions: A 3D finite element study. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105671.	4.7	14
15	Finite element contact stress analysis of the temporomandibular joints of patients with temporomandibular disorders under mastication. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 213, 106526.	4.7	13
16	Biomechanical analysis of temporomandibular joints during mandibular protrusion and retraction motions: A 3d finite element simulation. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106299.	4.7	12
17	Effect of sagittal split ramus osteotomy on stress distribution of temporomandibular joints in patients with mandibular prognathism under symmetric occlusions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1297-1305.	1.6	10
18	Mathematical analysis of the condylar trajectories in asymptomatic subjects during mandibular motions. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 901-911.	2.8	8

#	ARTICLE	IF	CITATIONS
19	Biomechanical Simulation of the Interaction in the Temporomandibular Joint within Dentate Mandible: A Finite Element Analysis. , 2007, , .		7
20	Biomechanical influence of anchorages on orthodontic space closing mechanics by sliding method. Medical and Biological Engineering and Computing, 2020, 58, 1091-1097.	2.8	7
21	Influence of Distal Re-entry Tears on False Lumen Thrombosis After Thoracic Endovascular Aortic Repair in Type B Aortic Dissection Patients: A Computational Fluid Dynamics Simulation. Cardiovascular Engineering and Technology, 2021, 12, 426-437.	1.6	7
22	Stress analysis of first permanent mandibular molar with class 1 restorations of different cement bases by occlusive load: A finite element analysis. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 1371-1379.	2.1	5
23	Soft Defect-Tolerant Material Inspired by American Lobsters. ACS Applied Materials & Interfaces, 2020, 12, 26509-26514.	8.0	5
24	Temporomandibular condylar articulation and finite helical axis determination using a motion tracking system. Medical Engineering and Physics, 2021, 94, 80-86.	1.7	5
25	Impact of mandibular prognathism on morphology and loadings in temporomandibular joints. Biomedizinische Technik, 2021, 66, 81-89.	0.8	5
26	High-Performance Crack-Resistant Elastomer with Tunable $\infty$ -Shaped $\sigma$ -Strain Behavior Inspired by the Brown Pelican. ACS Applied Materials & Interfaces, 2022, 14, 22489-22496.	8.0	5
27	In vivo biomechanical effects of maximal mouth opening on the temporomandibular joints and their relationship to morphology and kinematics. Journal of Biomechanics, 2022, 141, 111175.	2.1	5
28	Longitudinal computational fluid dynamics study of stenosis and aneurysmal degeneration of an aortorenal bypass. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1965-1975.	2.8	4
29	Three-dimensional finite element analysis of temporomandibular joints in patients with jaw deformity during unilateral molar clenching before and after orthognathic surgery. Medicine (United States), 2021, 100, e24540.	1.0	4
30	Effects of the lining material, thickness and coverage on residual stress of class II molar restorations by multilayer technique. Computer Methods and Programs in Biomedicine, 2021, 202, 105995.	4.7	4
31	Hemodynamic Characteristics of Patients With Suspected Coronary Heart Disease at Their Initial Visit. Frontiers in Physiology, 2021, 12, 714438.	2.8	4
32	Evaluation of the Therapeutic Effect of Bi-Maxillary Osteotomy Using the Stress Distribution on the Temporomandibular Joint When Doing Anterior Teeth Occlusion. Journal of Biomechanical Engineering, 2020, 142, .	1.3	4
33	Numerical simulation of canine bodily movement. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 157-163.	2.1	3
34	The relations between the stress in temporomandibular joints and the deviated distances for mandibular asymmetric patients. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 109-116.	1.8	3
35	Comparison of stress distribution of TMJ with different mandibular deformities under incisal clenching. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-8.	1.6	3
36	Three-dimensional morphological and biomechanical analysis of temporomandibular joint in mandibular and bi-maxillary osteotomies. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-9.	1.6	3

#	ARTICLE	IF	CITATIONS
37	A time-variant reliability approach for mechanical structures for non-linear behaviour. , 2012, , .		2
38	Oral rehabilitation following successful TMD treatment with condylar position changes: A case report. Cranio - Journal of Craniomandibular Practice, 2022, 40, 381-386.	1.4	2
39	Effect of Geometric Accuracy at the Proximal Landing Zone on Simulation Results for Thoracic Endovascular Repair Patients. Cardiovascular Engineering and Technology, 2020, 11, 679-688.	1.6	2
40	Biomechanical effects of high acceleration on the temporomandibular joint. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 333-341.	1.6	2
41	A crossing rate method to reliability analysis of antenna structure under fluctuating wind. , 2012, , .		1
42	THE BIOMECHANICAL COMPARISONS OF DIFFERENT PERIODONTAL CONDITIONS UNDER THE DIFFERENT EXTRACORONAL PRECISION ATTACHMENT RESTORATIONS FOR THE MANDIBULAR KENNEDY I DENTITION DEFECT. Journal of Mechanics in Medicine and Biology, 2020, 20, 2050019.	0.7	1
43	Biomechanical Research of the Endoskeletal Trans-tibial Monolimb. , 2007, , .		0
44	Improved reliability approximate method combining Kriging and importance sampling. , 2012, , .		0
45	A non-probabilistic reliability analysis on uncertainties systems. , 2012, , .		0
46	Biomechanical study on the changes of stress in temporomandibular joints after the orthognathic surgery in patients with mandibular prognathism: a 3D finite element study. Acta of Bioengineering and Biomechanics, 2020, 22, 155-163.	0.4	0