Daisuke Tawara

List of Publications by Year
in descending order

34	37	1937685 4	1872680 6
papers	citations	h-index	g-index

34	34	34	35
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Silico Analysis of the Biomechanical Stability of Commercially Pure Ti and Ti-15Mo Plates for the Treatment of Mandibular Angle Fracture. Journal of Oral and Maxillofacial Surgery, 2017, 75, 1004.e1-1004.e9.	1.2	9
2	Patient-Specific Finite Element Analyses Detect Significant Mechanical Therapeutic Effects on Osteoporotic Vertebrae During a Three-Year Treatment. Journal of Biomechanical Science and Engineering, 2011, 6, 248-261.	0.3	7
3	Predicting changes in mechanical properties of trabecular bone by adaptive remodeling. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 415-425.	1.6	7
4	Prediction of Bone Quality of Remodeling Trabeculae Using Multi-Scale Stress Analyses with a Homogenization Technique Reflecting Material Anisotropy. International Journal of Applied Mechanics, 2019, 11, 1950055.	2.2	4
5	Nonlinear mechanical analysis of posterior spinal instrumentation for osteoporotic vertebra: Effects of mechanical properties of the rod on the failure risks around the screw. Journal of Biomechanical Science and Engineering, 2014, 9, 13-00163-13-00163.	0.3	3
6	Probabilistic analysis of mechanical behaviour of mandibular trabecular bone using a calibrated stochastic homogenization model. Acta Mechanica, 2015, 226, 3275-3287.	2.1	3
7	Stochastic Multi-Scale Finite Element Analysis of the Drilling Force of Trabecular Bone During Oral Implant Surgery. International Journal of Applied Mechanics, 2016, 08, 1650075.	2.2	3
8	GS2-11 Verification of similarity of drilling properties between developed new artificial bone model and real bone(GS2: Orthopaedic Biomechanics II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 154.	0.0	1
9	Development of primary design guidelines for supportive underwear to elevate the bladder neck in women based on finite element analysis of the pelvis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 269-278.	1.8	0
10	8E-10 Evaluation of changes in mechanical properties of trabecular bone by bone remodeling simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2011, 2010.23, 93-94.	0.0	0
11	2409 Multiscale Mechanical Simulation of Trabecular Bone Considering its Morphological Change and Material Anisotropy. The Proceedings of the Computational Mechanics Conference, 2012, 2012.25, 528-529.	0.0	0
12	OS1106 Proposal for the Intracellular Driving Mechanism Model Based on the Evaluation of Change in Crawling Direction of Fish Keratocyte After Compressive Strain Application. The Proceedings of the Materials and Mechanics Conference, 2012, 2012, _OS1106-1_-_OS1106-2_.	0.0	0
13	BC-JP-2 Bone Quality Evaluation Based on Bone Remodeling and Multi-scale Simulation. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _BC-JP-2-1-_BC-JP-2-5.	0.0	0
14	B220 Change in Stress Distribution in Vertebrae due to Change in Stiffness of the Screw and Rods for Spinal Fusion of Spine. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2012, 2012.23, 163-164.	0.0	0
15	7B43 Evaluation of morphological changes and anisotropic load-supporting function in osteoporotic trabecular bone by bone remodeling simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, _7B43-1_-_7B43-2_.	0.0	0
16	B213 Nonlinear Fracture Analysis of Posterior Spinal Instrumentation for Osteoporotic Vertebra : (Effects of the Change in Stiffness of the Rod on Distribution of Microfracture around the Screw). The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2013, 2013.24, 129-130.	0.0	0
17	1D35 Analysis of New Porous Bone Model for Evaluation of Relationship between Pore Distribution and Mechanical Properties. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 111-112.	0.0	0
18	C203 Musculoskeletal simulation for design of supportive underwear for pelvic floor disorder. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2014, 2014.25, 131-132.	0.0	0

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19	G0300903 Evaluation of fatigue strength of high adhesive DLC-coated SUS316 with notch. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _G0300903--_G0300903-.	0.0	0
20	PS4-2 Musculoskeletal simulation for design of supportive underwear for pelvic floor disorder(PS4:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 282.	0.0	0
21	1G15 Characterization of drilling of jawbone considering inter-individual differences for the development of oral implant surgery simulator. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 267-268.	0.0	0
22	Bone remodeling simulation around the screw in spinal posterior instrumentation using a dynamic stabilization rod. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2016, 2016.27, C107.	0.0	0
23	Subject-specific Musculoskeletal Simulation Considering the Gait Motion and Muscle Cross-sectional Area of the Patient of Hip osteoarthritis. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0220106.	0.0	0
24	Experimental evaluation of mechanical properties of a new type rod to suppress loosening of screw in spinal fusion. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2017, 2017.28, 1C12.	0.0	0
25	Assessment of the Relationship Between the Number of Screws and Loosening Risks in Spinal Fusion Based on Multi-segment Spine Model. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2017, 2017.28, 1C13.	0.0	0
26	Investigation of pressure distribution of supportive underwear for pelvic floor relaxation based on a sagging bladder model. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2017, 2017.28, 2C14.	0.0	0
27	Bone remodeling simulation for prediction of micro trabecular morphology corresponding to macro bone density. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, J0210204.	0.0	0
28	Establishment of Experimental Method to Evaluate Mechanical Properties of Rod to Suppress Looseness Spinal Fusion. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 1B04.	0.0	0
29	Evaluation of force sensing learning on oral implant surgery simulator. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 2G02.	0.0	0
30	Evaluation of loosening risks of the screws in spinal fusion based on large-scale finite element analyses of T1-S2 multi-segmental spine model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 1B01.	0.0	0
31	Prediction of Trabecular Structure Corresponding to Bone Density from Low Resolution X-ray CT Using Bone Remodeling Simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 2B05.	0.0	0
32	Modeling of the Dynamic Stabilization Rod with Allowance of a Small Displacement and Rotation for Spinal Fusion to Assess the Loosening Risks of the Screw. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 2C16.	0.0	0
33	Experimental assessment of dynamic stabilization rod for spinal instrumentation on suppression of screw loosening. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2019, 2019.32, 2E32.	0.0	0
34	Development of a framework of patient-specific musculoskeletal simulation and finite element analysis for osteoarthritic gait. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2019, 2019.30, 2B34.	0.0	0