

Jui-Ting Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,533
citations

257450

24
h-index

377865

34
g-index

91
all docs

91
docs citations

91
times ranked

1672
citing authors

#	ARTICLE	IF	CITATIONS
1	The number of screws, bone quality, and friction coefficient affect acetabular cup stability. <i>Medical Engineering and Physics</i> , 2007, 29, 1089-1095.	1.7	86
2	Bone Strain and Interfacial Sliding Analyses of Platform Switching and Implant Diameter on an Immediately Loaded Implant: Experimental and Three-Dimensional Finite Element Analyses. <i>Journal of Periodontology</i> , 2009, 80, 1125-1132.	3.4	67
3	Bone density changes around teeth during orthodontic treatment. <i>Clinical Oral Investigations</i> , 2011, 15, 511-519.	3.0	57
4	The Effects of Cortical Bone Thickness and Trabecular Bone Strength on Noninvasive Measures of the Implant Primary Stability Using Synthetic Bone Models. <i>Clinical Implant Dentistry and Related Research</i> , 2013, 15, 251-261.	3.7	57
5	Effect of Screw Fixation on Temporomandibular Joint Condylar Prosthesis. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011, 69, 1320-1328.	1.2	52
6	Initial stability and bone strain evaluation of the immediately loaded dental implant: an <i>in vitro</i> model study. <i>Clinical Oral Implants Research</i> , 2011, 22, 691-698.	4.5	51
7	Effects of orthodontic tooth movement on alveolar bone density. <i>Clinical Oral Investigations</i> , 2012, 16, 679-688.	3.0	46
8	Characterization and antibacterial performance of bioactive Ti-Zn-O coatings deposited on titanium implants. <i>Thin Solid Films</i> , 2013, 528, 143-150.	1.8	46
9	Antibacterial properties and human gingival fibroblast cell compatibility of TiO ₂ /Ag compound coatings and ZnO films on titanium-based material. <i>Clinical Oral Investigations</i> , 2012, 16, 95-100.	3.0	45
10	Variations in crestal cortical bone thickness at dental implant sites in different regions of the jawbone. <i>Clinical Implant Dentistry and Related Research</i> , 2017, 19, 440-446.	3.7	43
11	The relation between micromotion and screw fixation in acetabular cup. <i>Computer Methods and Programs in Biomedicine</i> , 2006, 84, 34-41.	4.7	41
12	Biomechanical analysis of a temporomandibular joint condylar prosthesis during various clenching tasks. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1194-1201.	1.7	41
13	The assessment of trabecular bone parameters and cortical bone strength: A comparison of micro-CT and dental cone-beam CT. <i>Journal of Biomechanics</i> , 2013, 46, 2611-2618.	2.1	38
14	Biomechanical evaluation of one-piece and two-piece small-diameter dental implants: In-vitro experimental and three-dimensional finite element analyses. <i>Journal of the Formosan Medical Association</i> , 2016, 115, 794-800.	1.7	38
15	Cortical Bone Morphological and Trabecular Bone Microarchitectural Changes in the Mandible and Femoral Neck of Ovariectomized Rats. <i>PLoS ONE</i> , 2016, 11, e0154367.	2.5	37
16	Relationship of Three-Dimensional Bone-to-Implant Contact to Primary Implant Stability and Peri-implant Bone Strain in Immediate Loading: Microcomputed Tomographic and In Vitro Analyses. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, 367-374.	1.4	34
17	Biological Characteristics of the MG-63 Human Osteosarcoma Cells on Composite Tantalum Carbide/Amorphous Carbon Films. <i>PLoS ONE</i> , 2014, 9, e95590.	2.5	34
18	A Comparison of Micro-CT and Dental CT in Assessing Cortical Bone Morphology and Trabecular Bone Microarchitecture. <i>PLoS ONE</i> , 2014, 9, e107545.	2.5	33

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19	Effects of screw eccentricity on the initial stability of the acetabular cup. <i>International Orthopaedics</i> , 2007, 31, 451-455.	1.9	30
20	Trabecular bone structural parameters evaluated using dental cone-beam computed tomography: cellular synthetic bones. <i>BioMedical Engineering OnLine</i> , 2013, 12, 115.	2.7	29
21	Relation between initial implant stability quotient and bone-implant contact percentage: an in vitro model study. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2013, 116, e356-e361.	0.4	28
22	The Making of a Flight Feather: Bio-architectural Principles and Adaptation. <i>Cell</i> , 2019, 179, 1409-1423.e17.	28.9	28
23	Biomechanical effect of implant design on four implants supporting mandibular full-arch fixed dentures: In Vitro test and finite element analysis. <i>Journal of the Formosan Medical Association</i> , 2020, 119, 1514-1523.	1.7	28
24	Impacts of 3D bone-to-implant contact and implant diameter on primary stability of dental implant. <i>Journal of the Formosan Medical Association</i> , 2017, 116, 582-590.	1.7	26
25	Does Orthodontic Treatment Affect the Alveolar Bone Density?. <i>Medicine (United States)</i> , 2016, 95, e3080.	1.0	25
26	Impact on patients with oral squamous cell carcinoma in different anatomical subsites: a single-center study in Taiwan. <i>Scientific Reports</i> , 2021, 11, 15446.	3.3	25
27	A new method to evaluate the elastic modulus of cortical bone by using a combined computed tomography and finite element approach. <i>Computers in Biology and Medicine</i> , 2010, 40, 464-468.	7.0	22
28	Predicting Cortical Bone Strength from DXA and Dental Cone-Beam CT. <i>PLoS ONE</i> , 2012, 7, e50008.	2.5	22
29	Relationship between Cortical Bone Thickness and Cancellous Bone Density at Dental Implant Sites in the Jawbone. <i>Diagnostics</i> , 2020, 10, 710.	2.6	22
30	The Collum angle of the maxillary central incisors in patients with different types of malocclusion. <i>Journal of Dental Sciences</i> , 2012, 7, 72-76.	2.5	18
31	New quantitative classification of the anatomical relationship between impacted third molars and the inferior alveolar nerve. <i>BMC Medical Imaging</i> , 2015, 15, 59.	2.7	17
32	Difference between Female and Male Patients with Oral Squamous Cell Carcinoma: A Single-Center Retrospective Study in Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3978.	2.6	17
33	Location of the Mandibular Canal and Thickness of the Occlusal Cortical Bone at Dental Implant Sites in the Lower Second Premolar and First Molar. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-8.	1.3	16
34	Effect of bone quality on the artificial temporomandibular joint condylar prosthesis. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2010, 109, e1-e5.	1.4	15
35	Relation between insertion torque and bone-implant contact percentage: an artificial bone study. <i>Clinical Oral Investigations</i> , 2012, 16, 1679-1684.	3.0	15
36	Image reconstruction of optical computed tomography by using the algebraic reconstruction technique for dose readouts of polymer gel dosimeters. <i>Physica Medica</i> , 2015, 31, 942-947.	0.7	15

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37	Association between Age of Menopause and Thickness of Crestal Cortical Bone at Dental Implant Site: A Cross-Sectional Observational Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5868.	2.6	14
38	New fixation approach for transverse metacarpal neck fracture: a biomechanical study. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 183.	2.3	13
39	Effects of cortical bone thickness and implant length on bone strain and interfacial micromotion in an immediately loaded implant. <i>International Journal of Oral and Maxillofacial Implants</i> , 2010, 25, 706-14.	1.4	12
40	Effects of Screw Eccentricity on the Initial Stability of the Acetabular Cup in Artificial Foam Bone of Different Qualities. <i>Artificial Organs</i> , 2010, 34, E10-6.	1.9	11
41	Biomechanical effects of the implant material and implantâ€“abutment interface in immediately loaded small-diameter implants. <i>Clinical Oral Investigations</i> , 2014, 18, 1335-1341.	3.0	11
42	Prevalence of primate and interdental spaces for primary dentition in 3- to 6-year-old children in Taiwan. <i>Journal of the Formosan Medical Association</i> , 2018, 117, 598-604.	1.7	11
43	Fabrication of a Novel Ta(Zn)O Thin Film on Titanium by Magnetron Sputtering and Plasma Electrolytic Oxidation for Cell Biocompatibilities and Antibacterial Applications. <i>Metals</i> , 2020, 10, 649.	2.3	11
44	Mandible Integrity and Material Properties of the Periodontal Ligament during Orthodontic Tooth Movement: A Finite-Element Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2980.	2.5	11
45	Improving the prediction of the trabecular bone microarchitectural parameters using dental cone-beam computed tomography. <i>BMC Medical Imaging</i> , 2019, 19, 10.	2.7	10
46	Comparison of different lymph node staging systems in patients with positive lymph nodes in oral squamous cell carcinoma. <i>Oral Oncology</i> , 2021, 114, 105146.	1.5	10
47	FRICITION OF STAINLESS STEEL, NICKEL-TITANIUM ALLOY, AND BETA-TITANIUM ALLOY ARCHWIRES IN TWO COMMONLY USED ORTHODONTIC BRACKETS. <i>Journal of Mechanics in Medicine and Biology</i> , 2011, 11, 917-928.	0.7	9
48	Microcomputed tomography analysis of particular autogenous bone graft in sinus augmentation at 5Âmonths: differences on bone mineral density and 3D trabecular structure. <i>Clinical Oral Investigations</i> , 2013, 17, 535-542.	3.0	8
49	Effects of implant length and 3D bone-to-implant contact on initial stabilities of dental implant: a microcomputed tomography study. <i>BMC Oral Health</i> , 2017, 17, 132.	2.3	8
50	Biomechanical Analysis of the Forces Exerted during Different Occlusion Conditions following Bilateral Sagittal Split Osteotomy Treatment for Mandibular Deficiency. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-10.	1.1	8
51	The association between Type 1 diabetes mellitus and periodontal diseases. <i>Journal of the Formosan Medical Association</i> , 2019, 118, 1047-1054.	1.7	8
52	Bone plate fixation ability on the dorsal and lateral sides of a metacarpal shaft transverse fracture. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 441.	2.3	8
53	Biomechanical Analyses of Porous Designs of 3D-Printed Titanium Implant for Mandibular Segmental Osteotomy Defects. <i>Materials</i> , 2022, 15, 576.	2.9	8
54	Radiation dose evaluation of dental cone beam computed tomography using an anthropomorphic adult head phantom. <i>Radiation Physics and Chemistry</i> , 2014, 104, 287-291.	2.8	7

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55	Self-assembled micro-computed tomography for dental education. PLoS ONE, 2018, 13, e0209698.	2.5	7
56	Biomechanical Assessment of Design Parameters on a Self-Developed 3D-Printed Titanium-Alloy Reconstruction/Prosthetic Implant for Mandibular Segmental Osteotomy Defect. Metals, 2019, 9, 597.	2.3	7
57	Bone quality affects stability of orthodontic miniscrews. Scientific Reports, 2022, 12, 2849.	3.3	7
58	Prototype of Augmented Reality Technology for Orthodontic Bracket Positioning: An In Vivo Study. Applied Sciences (Switzerland), 2021, 11, 2315.	2.5	6
59	FDG-PET predicts bone invasion and prognosis in patients with oral squamous cell carcinoma. Scientific Reports, 2021, 11, 15153.	3.3	6
60	Biomechanical Evaluation of Bone Atrophy and Implant Length in Four Implants Supporting Mandibular Full-Arch-Fixed Dentures. Materials, 2022, 15, 3295.	2.9	6
61	Effects of Positions and Angulations of Titanium Dental Implants in Biomechanical Performances in the All-on-Four Treatment: 3D Numerical and Strain Gauge Methods. Metals, 2020, 10, 280.	2.3	5
62	Effect of oblique headless compression screw fixation for metacarpal shaft fracture: a biomechanical in vitro study. BMC Musculoskeletal Disorders, 2021, 22, 146.	1.9	5
63	Biomechanical analysis of occlusal modes on the periodontal ligament while orthodontic force applied. Clinical Oral Investigations, 2021, 25, 5661-5670.	3.0	5
64	Biomechanical analysis of subcondylar fracture fixation using miniplates at different positions and of different lengths. BMC Oral Health, 2021, 21, 543.	2.3	5
65	Quantification of Volumetric Bone Mineral Density of Proximal Femurs Using a Two-Compartment Model and Computed Tomography Images. BioMed Research International, 2018, 2018, 1-8.	1.9	4
66	Biomechanical Effects of Diameters of Implant Body and Implant Platform in Bone Strain around an Immediately Loaded Dental Implant with Platform Switching Concept. Applied Sciences (Switzerland), 2019, 9, 1998.	2.5	4
67	Effect of a figure-of-eight cerclage wire with two Kirschner wires on fixation strength for transverse metacarpal shaft fractures: an in vitro study with artificial bone. BMC Musculoskeletal Disorders, 2021, 22, 431.	1.9	4
68	Intermittent parathyroid hormone improve bone microarchitecture of the mandible and femoral head in ovariectomized rats. BMC Musculoskeletal Disorders, 2017, 18, 171.	1.9	3
69	Effect of Scanning Resolution on the Prediction of Trabecular Bone Microarchitectures Using Dental Cone Beam Computed Tomography. Diagnostics, 2020, 10, 368.	2.6	3
70	Can Male Patient's Age Affect the Cortical Bone Thickness of Jawbone for Dental Implant Placement? A Cohort Study. International Journal of Environmental Research and Public Health, 2021, 18, 4284.	2.6	3
71	Comparison of the fixation ability of headless compression screws and locking plate for metacarpal shaft transverse fracture. Medicine (United States), 2021, 100, e27375.	1.0	3
72	Biomechanical Evaluation and Factorial Analysis of the 3-Dimensional Printing Self-Designed Metallic Reconstruction Plate for Mandibular Segmental Defect. Journal of Oral and Maxillofacial Surgery, 2022, 80, 775-783.	1.2	3

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73	Intermittent parathyroid hormone treatment affects the bone structural parameters and mechanical strength of the femoral neck after ovariectomy-induced osteoporosis in rats. <i>BioMedical Engineering OnLine</i> , 2022, 21, 6.	2.7	3
74	PROTOTYPE OF A 2.5D PERIAPICAL RADIOGRAPHY SYSTEM USING AN INTRAORAL COMPUTED TOMOSYNTHESIS APPROACH. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2018, 30, 1850004.	0.6	2
75	EFFECT OF BONE QUALITY ON INITIAL STABILITY OF ORTHODONTIC MINISCREWS. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1940013.	0.7	2
76	Effects of short-term acupuncture treatment on occlusal force and mandibular movement in patients with deep-bite malocclusion. <i>Journal of Dental Sciences</i> , 2019, 14, 81-86.	2.5	2
77	The Effect of Insertion Angles and Depths of Dental Implant on the Initial Stability. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3112.	2.5	2
78	Biomechanical Evaluation of Sagittal Split Ramus Osteotomy Fixation Techniques in Mandibular Setback. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3031.	2.5	2
79	Assessment of the Retromolar Canal in Taiwan Subpopulation: A Cross-Sectional Cone-Beam Computed Tomography Study in a Medical Center. <i>Tomography</i> , 2021, 7, 219-227.	1.8	2
80	Comparison of the fixation ability between lag screw and bone plate for oblique metacarpal shaft fracture. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 72.	2.3	2
81	Survival and clinicopathological characteristics of cT4b oral squamous cell carcinoma based on different treatment modalities. <i>Medicine (United States)</i> , 2022, 101, e29285.	1.0	2
82	RELATIONS OF ANISOTROPIC ELASTIC MODULI TO DENSITY AND CT NUMBER IN BOVINE CORTICAL BONE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2008, 20, 139-143.	0.6	1
83	A Prototype Intraoral Periapical Sensor with High Frame Rates for a 2.5D Periapical Radiography System. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-9.	1.1	1
84	Incisor liability and its effects among East Asian children. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 796-801.	1.7	1
85	Effects of Gender and Age in Mandibular Leeway Space for Taiwanese Children. <i>Children</i> , 2021, 8, 999.	1.5	1
86	The Effects of Insertion Approach on the Stability of Dental Implants. <i>Applied Bionics and Biomechanics</i> , 2022, 2022, 1-7.	1.1	1
87	THE EFFECT OF CYCLIC STRETCHING SPEED ON THE FORCE DEGRADATION OF ORTHODONTIC ELASTIC BANDS. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1350017.	0.7	0
88	Geometrical Calibration of a 2.5D Periapical Radiography System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 906.	2.5	0
89	Biomechanical Effect of Orthodontic Treatment of Canine Retraction by Using Metallic Orthodontic Mini-Implant (OMI) Covered with Various Angles of Revolving Cap. <i>Applied Bionics and Biomechanics</i> , 2021, 2021, 1-8.	1.1	0
90	Outpatient Dental Treatment Expenditure for Patients with Oromaxillofacial Cancer: A Cohort Study in Taiwan. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1066.	2.6	0