

Chun-Li Lin

List of Publications by Year in descending order

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100
papers

1,854
citations

236612

25
h-index

315357

38
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100
all docs

100
docs citations

100
times ranked

1665
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element analysis of plantar fascia under stretchâ€”The relative contribution of windlass mechanism and Achilles tendon force. <i>Journal of Biomechanics</i> , 2008, 41, 1937-1944.	0.9	98
2	Finite element and Weibull analyses to estimate failure risks in the ceramic endocrown and classical crown for endodontically treated maxillary premolar. <i>European Journal of Oral Sciences</i> , 2010, 118, 87-93.	0.7	81
3	Factorial analysis of variables influencing mechanical characteristics of a single tooth implant placed in the maxilla using finite element analysis and the statistics-based Taguchi method. <i>European Journal of Oral Sciences</i> , 2007, 115, 408-416.	0.7	80
4	Multi-factorial analysis of a cusp-replacing adhesive premolar restoration: A finite element study. <i>Journal of Dentistry</i> , 2008, 36, 194-203.	1.7	79
5	Multifactorial analysis of an MOD restored human premolar using auto-mesh finite element approach. <i>Journal of Oral Rehabilitation</i> , 2001, 28, 576-585.	1.3	71
6	Numerical simulation on the biomechanical interactions of tooth/implant-supported system under various occlusal forces with rigid/non-rigid connections. <i>Journal of Biomechanics</i> , 2006, 39, 453-463.	0.9	66
7	Multi-factorial analysis of variables influencing the bone loss of an implant placed in the maxilla: Prediction using FEA and SED bone remodeling algorithm. <i>Journal of Biomechanics</i> , 2010, 43, 644-651.	0.9	66
8	Evaluation of failure risks in ceramic restorations for endodontically treated premolar with MOD preparation. <i>Dental Materials</i> , 2011, 27, 431-438.	1.6	66
9	Biomechanical analysis of the effects of implant diameter and bone quality in short implants placed in the atrophic posterior maxilla. <i>Medical Engineering and Physics</i> , 2012, 34, 153-160.	0.8	60
10	Biomechanical interactions in toothâ€”implantâ€”supported fixed partial dentures with variations in the number of splinted teeth and connector type: a finite element analysis. <i>Clinical Oral Implants Research</i> , 2008, 19, 107-117.	1.9	55
11	Estimation of the Risk of Failure for an Endodontically Treated Maxillary Premolar With MOD Preparation and CAD/CAM Ceramic Restorations. <i>Journal of Endodontics</i> , 2009, 35, 1391-1395.	1.4	49
12	Biomechanical response of implant systems placed in the maxillary posterior region under various conditions of angulation, bone density, and loading. <i>International Journal of Oral and Maxillofacial Implants</i> , 2008, 23, 57-64.	0.6	48
13	Automatic finite element mesh generation for maxillary second premolar. <i>Computer Methods and Programs in Biomedicine</i> , 1999, 59, 187-195.	2.6	38
14	Design of a patient-specific mandible reconstruction implant with dental prosthesis for metal 3D printing using integrated weighted topology optimization and finite element analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103700.	1.5	37
15	Biomechanical evaluation of the modified double-plating fixation for the distal radius fracture. <i>Clinical Biomechanics</i> , 2007, 22, 510-517.	0.5	33
16	Numerical investigation of the factors affecting interfacial stresses in an MOD restored tooth by auto-meshed finite element method. <i>Journal of Oral Rehabilitation</i> , 2001, 28, 517-525.	1.3	32
17	EFFECTS OF DENTAL IMPLANT LENGTH AND BONE QUALITY ON BIOMECHANICAL RESPONSES IN BONE AROUND IMPLANTS: A 3-D NON-LINEAR FINITE ELEMENT ANALYSIS. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2005, 17, 44-49.	0.3	32
18	Mechanical interactions of an implant/tooth-supported system under different periodontal supports and number of splinted teeth with rigid and non-rigid connections. <i>Journal of Dentistry</i> , 2006, 34, 682-691.	1.7	32

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19	Biomechanical evaluation of a novel hybrid reconstruction plate for mandible segmental defects: A finite element analysis and fatigue testing. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 1671-1680.	0.7	29
20	Mechanical interactions of cuspal-coverage designs and cement thickness in a cusp-replacing ceramic premolar restoration: a finite element study. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 367-374.	1.6	28
21	Numerical investigation of macro- and micro-mechanics of a ceramic veneer bonded with various cement thicknesses using the typical and submodeling finite element approaches. <i>Journal of Dentistry</i> , 2009, 37, 141-148.	1.7	28
22	Finite element sub-modeling analyses of damage to enamel at the incisor enamel/adhesive interface upon de-bonding for different orthodontic bracket bases. <i>Journal of Biomechanics</i> , 2011, 44, 134-142.	0.9	28
23	Estimation of the Failure Risk of a Maxillary Premolar with Different Crack Depths with Endodontic Treatment by Computer-aided Design/Computer-aided Manufacturing Ceramic Restorations. <i>Journal of Endodontics</i> , 2013, 39, 375-379.	1.4	28
24	Evaluation of contributions of orthodontic mini-screw design factors based on FE analysis and the Taguchi method. <i>Journal of Biomechanics</i> , 2010, 43, 2174-2181.	0.9	27
25	Evaluation of Stress Induced by Implant Type, Number of Splinted Teeth, and Variations in Periodontal Support in Tooth-Implant-Supported Fixed Partial Dentures: A Non-Linear Finite Element Analysis. <i>Journal of Periodontology</i> , 2010, 81, 121-130.	1.7	26
26	Finite element analysis of different repair methods of Vancouver B1 periprosthetic fractures after total hip arthroplasty. <i>Injury</i> , 2012, 43, 1061-1065.	0.7	25
27	High-Flow Nasal Cannula and Mandibular Advancement Bite Block Decrease Hypoxic Events during Sedative Esophagogastroduodenoscopy: A Randomized Clinical Trial. <i>BioMed Research International</i> , 2019, 2019, 1-7.	0.9	25
28	Multi-factorial retainer design analysis of posterior resin-bonded fixed partial dentures: a finite element study. <i>Journal of Dentistry</i> , 2005, 33, 711-720.	1.7	23
29	Evaluation of a reinforced slot design for CEREC system to restore extensively compromised premolars. <i>Journal of Dentistry</i> , 2006, 34, 221-229.	1.7	23
30	Buttressing angle of the double-plating fixation of a distal radius fracture: a finite element study. <i>Medical and Biological Engineering and Computing</i> , 2006, 44, 665-673.	1.6	22
31	Evaluation of the relative contributions of multi-factors in an adhesive MOD restoration using FEA and the Taguchi method. <i>Dental Materials</i> , 2009, 25, 1073-1081.	1.6	22
32	Biomechanical optimization of a custom-made positioning and fixing bone plate for Le Fort I osteotomy by finite element analysis. <i>Computers in Biology and Medicine</i> , 2016, 68, 49-56.	3.9	22
33	Combining structural-thermal coupled field FE analysis and the Taguchi method to evaluate the relative contributions of multi-factors in a premolar adhesive MOD restoration. <i>Journal of Dentistry</i> , 2008, 36, 626-636.	1.7	20
34	Nonlinear Finite Element Analysis of the Plantar Fascia Due to the Windlass Mechanism. <i>Foot and Ankle International</i> , 2008, 29, 845-851.	1.1	20
35	Oral capnography is more effective than nasal capnography during sedative upper gastrointestinal endoscopy. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 321-326.	0.7	20
36	Development of high-throughput perfusion-based microbioreactor platform capable of providing tunable dynamic tensile loading to cells and its application for the study of bovine articular chondrocytes. <i>Biomedical Microdevices</i> , 2011, 13, 789-798.	1.4	18

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37	Examination of ceramic restorative material interfacial debonding using acoustic emission and optical coherence tomography. <i>Dental Materials</i> , 2013, 29, 382-388.	1.6	18
38	Biomechanical consideration of total hip arthroplasty following failed fixation of femoral intertrochanteric fractures – A finite element analysis. <i>Medical Engineering and Physics</i> , 2013, 35, 569-575.	0.8	18
39	Biomechanical analysis of single-level interbody fusion with different internal fixation rod materials: a finite element analysis. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 100.	0.8	18
40	Design optimisation and experimental evaluation of dorsal double plating fixation for distal radius fracture. <i>Injury</i> , 2013, 44, 527-534.	0.7	16
41	Nonlinear finite element analysis of a splinted implant with various connectors and occlusal forces. <i>International Journal of Oral and Maxillofacial Implants</i> , 2003, 18, 331-40.	0.6	16
42	Biomechanical investigation of a novel hybrid dorsal double plating for distal radius fractures by integrating topology optimization and finite element analysis. <i>Injury</i> , 2020, 51, 1271-1280.	0.7	15
43	Examination of ceramic/enamel interfacial debonding using acoustic emission and optical coherence tomography. <i>Dental Materials</i> , 2014, 30, 910-916.	1.6	14
44	Mechanical response comparison in an implant overdenture retained by ball attachments on conventional regular and mini dental implants: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 911-921.	0.9	14
45	Biomechanical Evaluation of the Effects of Implant Neck Wall Thickness and Abutment Screw Size: A 3D Nonlinear Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3471.	1.3	14
46	Integration of CT, CAD system and finite element method to investigate interfacial stresses of resin-bonded prosthesis. <i>Computer Methods and Programs in Biomedicine</i> , 2003, 72, 55-64.	2.6	13
47	Early resin luting material damage around a circular fiber post in a root canal treated premolar by using micro-computerized tomographic and finite element sub-modeling analyses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 184-193.	1.5	13
48	Biomechanical interactions of different mini-plate fixations and maxilla advancements in the Le Fort I Osteotomy: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1704-1713.	0.9	12
49	Evaluation of early resin luting cement damage induced by voids around a circular fiber post in a root canal treated premolar by integrating micro-CT, finite element analysis and fatigue testing. <i>Dental Materials</i> , 2018, 34, 1082-1088.	1.6	12
50	Customized surgical template fabrication under biomechanical consideration by integrating CBCT image, CAD system and finite element analysis. <i>Dental Materials Journal</i> , 2018, 37, 6-14.	0.8	11
51	A biomechanical investigation of different screw head designs for vertebral derotation in scoliosis surgery. <i>Spine Journal</i> , 2017, 17, 1171-1179.	0.6	10
52	Developing Customized Dental Miniscrew Surgical Template from Thermoplastic Polymer Material Using Image Superimposition, CAD System, and 3D Printing. <i>BioMed Research International</i> , 2017, 2017, 1-8.	0.9	10
53	Decreased Tongue Pressure Associated with Aging, Chewing and Swallowing Difficulties of Community-Dwelling Older Adults in Taiwan. <i>Journal of Personalized Medicine</i> , 2021, 11, 653.	1.1	10
54	A novel anatomical thin titanium mesh plate with patient-matched bending technique for orbital floor reconstruction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 1526-1532.	0.7	9

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55	DESIGN, MANUFACTURE AND CLINICAL EVALUATION OF A NEW TMJ EXERCISER. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 135-140.	0.3	8
56	Biomechanical interactions of endodontically treated tooth implant-supported prosthesis under fatigue test with acoustic emission monitoring. BioMedical Engineering OnLine, 2016, 15, 23.	1.3	8
57	Development of a novel anatomical thin titanium mesh plate with reduction guidance and fixation function for Asian zygomatic-orbitomaxillary complex fracture. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 547-557.	0.7	8
58	Finite element analysis of biomechanical interactions of a tooth-implant splinting system for various bone qualities. Chang Gung Medical Journal, 2006, 29, 143-53.	0.7	8
59	Biomechanical Evaluation of an Orthodontic Miniimplant Used With Revolving (Translation and) Tj ETQq1 1 0.784314 rgBT /Overlock Dentistry, 2013, 22, 77-82.	1.7	7
60	Effect of implant design on the initial biomechanical stability of two self-tapping dental implants. Clinical Biomechanics, 2020, 74, 124-130.	0.5	7
61	Biomechanical Assessment of Vertebroplasty Combined with Cement-Augmented Screw Fixation for Lumbar Burst Fractures: A Finite Element Analysis. Applied Sciences (Switzerland), 2020, 10, 2133.	1.3	7
62	Estimation of the retainer height biomechanical contribution in posterior resin-bonded fixed partial dentures: a structural-thermal coupled finite element analysis. Medical and Biological Engineering and Computing, 2010, 48, 1115-1122.	1.6	6
63	Effects of different ceramic and dentin thicknesses on the temperature rise during photocuring. Journal of Dental Sciences, 2011, 6, 210-215.	1.2	6
64	Application of non-destructive impedance-based monitoring technique for cyclic fatigue evaluation of endodontic nickel-titanium rotary instruments. Medical Engineering and Physics, 2011, 33, 604-609.	0.8	6
65	Mechanical resistance evaluation of a novel anatomical short glass fiber reinforced post in artificial endodontically treated premolar under rotational/lateral fracture fatigue testing. Dental Materials Journal, 2016, 35, 233-240.	0.8	6
66	In Vitro Laser Treatment Platform Construction with Dental Implant Thread Surface on Bacterial Adhesion for Peri-Implantitis. BioMed Research International, 2017, 2017, 1-7.	0.9	6
67	Biomechanical Analysis and Design Method for Patient-Specific Reconstructive Implants for Large Bone Defects of the Distal Lateral Femur. Biosensors, 2022, 12, 4.	2.3	5
68	Design Criteria for Patient-specific Mandibular Continuity Defect Reconstructed Implant with Lightweight Structure using Weighted Topology Optimization and Validated with Biomechanical Fatigue Testing. International Journal of Bioprinting, 2021, 8, 437.	1.7	5
69	Biomechanical Responses of Endodontically Treated Tooth Implant-supported Prosthesis. Journal of Endodontics, 2010, 36, 1688-1692.	1.4	4
70	Design and validation of a dynamic stretch splint for plantar fasciitis. Medical Engineering and Physics, 2012, 34, 920-928.	0.8	4
71	A novel anatomical short glass fiber reinforced post in an endodontically treated premolar mechanical resistance evaluation using acoustic emission under fatigue testing. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 151-159.	1.5	4
72	A biomechanical investigation of the retentive force of pedicle screw structures for different screw tulip designs. Clinical Biomechanics, 2019, 70, 23-30.	0.5	4

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73	A Novel Tongue Pressure Measurement Instrument with Wireless Mobile Application Control Function and Disposable Positioning Mouthpiece. <i>Diagnostics</i> , 2021, 11, 489.	1.3	4
74	3D Micro-Crack Propagation Simulation at Enamel/Adhesive Interface Using FE Submodeling and Element Death Techniques. <i>Annals of Biomedical Engineering</i> , 2010, 38, 2004-2012.	1.3	3
75	NUMERICAL INVESTIGATION OF FAILURE RISK OF CAD/CAM CERAMIC RESTORATION FOR AN ENDODONTICALLY TREATED MAXILLARY PREMOLAR WITH MO PREPARATION. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2010, 22, 327-335.	0.3	3
76	Multifactorial analysis of variables influencing the fracture strength of repair joints for provisional restorative materials using the statistically based Taguchi method. <i>Journal of Dental Sciences</i> , 2010, 5, 90-99.	1.2	3
77	Examination of ceramic restoration adhesive coverage in cusp-replacement premolar using acoustic emission under fatigue testing. <i>BioMedical Engineering OnLine</i> , 2014, 13, 165.	1.3	3
78	Do Dual-Thread Orthodontic Mini-Implants Improve Bone/Tissue Mechanical Retention?. <i>Implant Dentistry</i> , 2014, Publish Ahead of Print, 653-8.	1.7	3
79	Load Fatigue Performance Evaluation on Two Internal Tapered Abutmentâ€“Implant Connection Implants Under Different Screw Tightening Torques. <i>Journal of Oral Implantology</i> , 2017, 43, 107-113.	0.4	3
80	Anatomical Thin Titanium Mesh Plate Structural Optimization for Zygomatic-Maxillary Complex Fracture under Fatigue Testing. <i>BioMed Research International</i> , 2018, 2018, 1-7.	0.9	3
81	Novel mandibular advancement bite block with supplemental oxygen to both nasal and oral cavity improves oxygenation during esophagogastroduodenoscopy: a bench comparison. <i>Journal of Clinical Monitoring and Computing</i> , 2019, 33, 523-530.	0.7	3
82	Integrating Finite Element Death Technique and Bone Remodeling Theory to Predict Screw Loosening Affected by Radiation Treatment after Mandibular Reconstruction Surgery. <i>Diagnostics</i> , 2020, 10, 844.	1.3	3
83	NUMERICAL INVESTIGATION OF SPAN LENGTHS AFFECTING MECHANICAL RESPONSES IN ANTERIOR RESIN-BONDED FIXED PARTIAL DENTURE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2005, 17, 121-125.	0.3	2
84	Factorial Analysis of Variables Influencing Mechanical Characteristics in Le Fort I Osteotomy Using FEA and Statistics-Based Taguchi Method. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 495-505.	1.0	2
85	Novel multi-axial alveolar distractor â€” Part I: Design, manufacture, and mechanical/functional tests. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019, 47, 1682-1689.	0.7	2
86	Patient-Specific 3-Dimensional Printing Titanium Implant Biomechanical Evaluation for Complex Distal Femoral Open Fracture Reconstruction with Segmental Large Bone Defect: A Nonlinear Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4098.	1.3	2
87	BIOMECHANICAL ANALYSIS OF INTERBODY AND POSTEROLATERAL FUSION WITH TRANSPEDICULAR SCREW FIXATION FOR SPONDYLOLISTHESIS: A FINITE ELEMENT STUDY. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2008, 20, 145-151.	0.3	1
88	MICROMECHANICAL ANALYSIS AND CRACK PROPAGATION SIMULATION OF ENAMEL/CERAMIC ADHESIVE INTERFACE IN AN INCISOR VENEER USING THREE-DIMENSIONAL FINITE ELEMENT SUBMODELING AND ELEMENT DEACTIVATION APPROACHES. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2009, 21, 325-331.	0.3	1
89	BIOMECHANICAL ANALYSIS TO VERIFY THE BUTTRESS THEORY WHEN USING THE ANATOMICAL THIN TITANIUM MESH PLATE FOR ZYGOMATICOMAXILLARY COMPLEX BONE FRACTURE. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1940025.	0.3	1
90	Design of a Metal 3D Printing Patient-Specific Repairing Thin Implant for Zygomaticomaxillary Complex Bone Fracture Based on Buttress Theory Using Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4738.	1.3	1

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91	Mechanical Comparison of a Novel Hybrid and Commercial Dorsal Double Plating for Distal Radius Fracture: In Vitro Fatigue Four-Point Bending and Biomechanical Testing. <i>Materials</i> , 2021, 14, 6189.	1.3	1
92	Assessment of Lumbar Vertebrae Morphology by Computed Tomography in Older Adults with Osteoporosis. <i>Current Medical Imaging</i> , 2022, 18, 1195-1203.	0.4	1
93	COMPARISON OF PROXIMAL <i>IN VITRO</i> TOOTH CONTACTS IN CLASS II RESTORATIONS WITH DIFFERENT RESTORATIVE MATERIALS AND CAVITY SIZES USING A NEW MEASUREMENT DEVICE. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550057.	0.3	0
94	A Revolving Temporary Anchorage Cap Connecting to an Orthodontic Miniscrew Using In Vitro Experimental Testing. <i>Implant Dentistry</i> , 2015, 24, 693-698.	1.7	0
95	EDITORIAL: 21ST INTERNATIONAL CONFERENCE ON MECHANICS IN MEDICINE AND BIOLOGY 2018 BEST PAPER AWARDS. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1902002.	0.3	0
96	INVESTIGATION INTO WHETHER OR NOT PMMA BONE CEMENT TRANSPEDICULAR SCREW AUGMENTATION STABILIZES PEDICLE SCREW LOOSENING. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1940024.	0.3	0
97	Integrating CAD and 3D-Printing Techniques to Construct an In Vitro Laser Standard Treatment Platform for Evaluating the Effectiveness of Sterilization by Er:YAG Laser in Peri-Implant Intra-Bony Defects. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3431.	1.3	0
98	Functional Evaluation of a Novel Multi-Axial Alveolar Distractorâ€™Preliminary In Vivo Animal Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1898.	1.3	0
99	Finite Element Analysis of Plate Fixation on Mandibular Symphysis Fracture(Orthopaedic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 and Technology in Biomechanics, 2004, 2004.1, 161-162.	0.0	0
100	FACTORIAL ANALYSIS OF A CUSP-REPLACING ADHESIVE PREMOLAR RESTORATIONA FINITE ELEMENT STUDY(3D1 Dental Biomechanics). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007, 2007.3, S221.	0.0	0