

Tien-Min G Chu

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,738
citations

430442

18
h-index

288905

40
g-index

51
all docs

51
docs citations

51
times ranked

2791
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the development of GTR/GBR membranes for periodontal regeneration—A materials perspective. <i>Dental Materials</i> , 2012, 28, 703-721.	1.6	555
2	Depth of Cure of Dental Resin Composites: ISO 4049 Depth and Microhardness of Types of Materials and Shades. <i>Operative Dentistry</i> , 2008, 33, 408-412.	0.6	139
3	Segmental bone regeneration using a load-bearing biodegradable carrier of bone morphogenetic protein-2. <i>Biomaterials</i> , 2007, 28, 459-467.	5.7	129
4	Microstructural evolution and physical behavior of a lithium disilicate glass—ceramic. <i>Dental Materials</i> , 2015, 31, 928-940.	1.6	118
5	Effect of Medicaments Used in Endodontic Regeneration Technique on the Chemical Structure of Human Immature Radicular Dentin: An In-Vitro Study. <i>Journal of Endodontics</i> , 2013, 39, 269-273.	1.4	99
6	The science and application of IPS e.Max dental ceramic. <i>Kaohsiung Journal of Medical Sciences</i> , 2018, 34, 238-242.	0.8	70
7	Evolution of Bone Grafting: Bone Grafts and Tissue Engineering Strategies for Vascularized Bone Regeneration. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2015, 13, 232-244.	1.3	66
8	Poly(propylene fumarate) reinforced dicalcium phosphate dihydrate cement composites for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1792-1802.	2.1	41
9	The impact of hydrofluoric acid etching followed by unfilled resin on the biaxial strength of a glass-ceramic. <i>Dental Materials</i> , 2013, 29, e281-e290.	1.6	36
10	Comparison of stainless steel and titanium alloy orthodontic miniscrew implants: A mechanical and histologic analysis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014, 145, 496-504.	0.8	34
11	Tetracycline-incorporated polymer nanofibers as a potential dental implant surface modifier. , 2017, 105, 2085-2092.		33
12	Correlation Between Micro-Computed Tomography and Histomorphometry for Assessment of New Bone Formation in a Calvarial Experimental Model. <i>Journal of Craniofacial Surgery</i> , 2008, 19, 446-452.	0.3	32
13	Scaffold-free bioprinting of mesenchymal stem cells using the Regenova printer: Spheroid characterization and osteogenic differentiation. <i>Bioprinting</i> , 2019, 15, e00050.	2.9	32
14	Scaffold-free bioprinting of mesenchymal stem cells with the regenova printer: Optimization of printing parameters. <i>Bioprinting</i> , 2019, 15, e00048.	2.9	32
15	Absence of Exposed Bone Following Dental Extraction in Beagle Dogs Treated With 9 Months of High-Dose Zoledronic Acid Combined With Dexamethasone. <i>Journal of Oral and Maxillofacial Surgery</i> , 2013, 71, 1017-1026.	0.5	31
16	Peripheral quantitative computer tomographic, histomorphometric, and removal torque analyses of two different non-coated implants in a rabbit model. <i>Clinical Oral Implants Research</i> , 2011, 22, 242-250.	1.9	25
17	The effects of 3D bioactive glass scaffolds and BMP-2 on bone formation in rat femoral critical size defects and adjacent bones. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 045013.	1.7	25
18	Effect of Mica Reinforcement on the Flexural Strength and Microhardness of Polymethyl Methacrylate Denture Resin. <i>Journal of Prosthodontics</i> , 2013, 22, 179-183.	1.7	22

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19	Testosterone Delivered with a Scaffold Is as Effective as Bone Morphologic Protein-2 in Promoting the Repair of Critical-Size Segmental Defect of Femoral Bone in Mice. PLoS ONE, 2013, 8, e70234.	1.1	22
20	Characterization of dicalcium phosphate dihydrate cements prepared using a novel hydroxyapatite-based formulation. Biomedical Materials (Bristol), 2009, 4, 025016.	1.7	21
21	<i>In vitro</i> degradation and cytocompatibility of dicalcium phosphate dihydrate cements prepared using the monocalcium phosphate monohydrate/hydroxyapatite system reveals rapid conversion to HA as a key mechanism. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 595-602.	1.6	19
22	Effects of DCPD cement chemistry on degradation properties and cytocompatibility: comparison of MCPM/ β -TCP and MCPM/HA formulations. Biomedical Materials (Bristol), 2013, 8, 025010.	1.7	15
23	Forces associated with launch into space do not impact bone fracture healing. Life Sciences in Space Research, 2018, 16, 52-62.	1.2	14
24	A Pyk2 inhibitor incorporated into a PEGDA-gelatin hydrogel promotes osteoblast activity and mineral deposition. Biomedical Materials (Bristol), 2019, 14, 025015.	1.7	13
25	A novel approach to evaluate the effect of medicaments used in endodontic regeneration on root canal surface indentation. Clinical Oral Investigations, 2014, 18, 1569-1575.	1.4	12
26	Should Live Patient Licensing Examinations in Dentistry Be Discontinued? Two Viewpoints. Journal of Dental Education, 2018, 82, 246-251.	0.7	11
27	Effects of shade and thickness on the translucency parameter of anatomic-contour zirconia, transmitted light intensity, and degree of conversion of the resin cement. Journal of Prosthetic Dentistry, 2023, 129, 213-219.	1.1	11
28	Development of a step-down method for altering male C57BL/6 mouse housing density and hierarchical structure: Preparations for spaceflight studies. Life Sciences in Space Research, 2018, 17, 44-50.	1.2	10
29	Preliminary evaluation of a load-bearing BMP-2 carrier for segmental defect regeneration. Biomedical Sciences Instrumentation, 2006, 42, 42-7.	0.2	9
30	Craniofacial Biology, Orthodontics, and Implants. , 2014, , 225-242.		8
31	The Trueness of Obturator Prosthesis Base Manufactured by Conventional and 3D Printing Techniques. Journal of Prosthodontics, 2022, 31, 221-227.	1.7	8
32	Calcium phosphate cement reinforcement by polymer infiltration and <i>in situ</i> curing: A method for 3D scaffold reinforcement. Journal of Biomedical Materials Research - Part A, 2010, 94A, 547-555.	2.1	7
33	The Effect of Polymerization Methods and Fiber Types on the Mechanical Behavior of Fiber-Reinforced Resin-Based Composites. Journal of Prosthodontics, 2017, 26, 230-237.	1.7	7
34	Internal Fixation Construct and Defect Size Affect Healing of a Translational Porcine Diaphyseal Tibial Segmental Bone Defect. Military Medicine, 2021, 186, e1115-e1123.	0.4	6
35	Megakaryocytes Enhance Mesenchymal Stromal Cells Proliferation and Inhibit Differentiation. Journal of Cellular Biochemistry, 2017, , .	1.2	5
36	Cohousing Male Mice with and without Segmental Bone Defects. Comparative Medicine, 2018, 68, 131-138.	0.4	5

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37	Additive concentration effects on dicalcium phosphate dihydrate cements prepared using monocalcium phosphate monohydrate and hydroxyapatite. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 065007.	1.7	4
38	FTIR Characterization and Release of Bovine Serum Albumin from Bioactive Glasses. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017, 15, e347-e355.	0.7	4
39	Targeted activation of androgen receptor signaling in the periosteum improves bone fracture repair. <i>Cell Death and Disease</i> , 2022, 13, 123.	2.7	3
40	Surgical Fixation Hardware for Regeneration of Long Bone Segmental Defects: Translating Large Animal Model and Human Experiences. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2015, 13, 222-231.	1.3	2
41	Letter to the Editor. <i>Journal of Oral and Maxillofacial Surgery</i> , 2013, 71, 1308.	0.5	1
42	On the Significance and Predicted Functional Effects of the Crown-to-Implant Ratio: A Finite Element Study of Long-Term Implant Stability Using High-Resolution, Nonlinear Numerical Analysis. , 2016, , .		1
43	Baseline Biomechanical Properties of Epithelia prior to Tissue Expansion in Dogs. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2018, 6, e1773.	0.3	1
44	Compressive loading causes unique mechanism of failure in second generation sliding hip screw. <i>International Journal of Medical Engineering and Informatics</i> , 2013, 5, 311.	0.2	0
45	Towards the Optimal Crown-to-Implant Ratio in Dental Implants. , 2017, , .		0
46	The properties of inducible membranes in animals and humans. <i>International Journal of Medical Engineering and Informatics</i> , 2017, 9, 189.	0.2	0
47	Bonding between implant attachment pickup materials and CAD-CAM denture base material. <i>Journal of Prosthetic Dentistry</i> , 2021, 126, 102.e1-102.e7.	1.1	0
48	Bone Morphogenetic Protein-2 Rapidly Heals Two Distinct Critical Sized Segmental Diaphyseal Bone Defects in a Porcine Model. <i>Military Medicine</i> , 2023, 188, 117-124.	0.4	0
49	Effect of hydrogel-based antibiotic intracanal medicaments on crown discoloration. <i>Restorative Dentistry & Endodontics</i> , 2021, 46, e52.	0.6	0
50	The Effects of Fluoride Treatment Time and Concentration on In Vitro Caries Lesion Demineralisation and Remineralisation. <i>Oral Health & Preventive Dentistry</i> , 2018, 16, 557-562.	0.3	0