

Ching-Chang Ko

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,887
citations

331670

21
h-index

289244

40
g-index

72
all docs

72
docs citations

72
times ranked

2557
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of hydroxyapatite-gelatin nanocomposite. <i>Biomaterials</i> , 2003, 24, 2853-2862.	11.4	403
2	Orthodontic tooth movement: The biology and clinical implications. <i>Kaohsiung Journal of Medical Sciences</i> , 2018, 34, 207-214.	1.9	201
3	Effectiveness and efficiency of a CAD/CAM orthodontic bracket system. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015, 148, 1067-1074.	1.7	80
4	Dopaminergic effects on in vitro osteogenesis. <i>Bone Research</i> , 2015, 3, 15020.	11.4	74
5	Decellularized bone matrix grafts for calvaria regeneration. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141668030.	5.5	62
6	How light attenuation and filler content affect the microhardness and polymerization shrinkage and translucency of bulk-fill composites?. <i>Clinical Oral Investigations</i> , 2017, 21, 559-565.	3.0	57
7	Effect of pore size in bone regeneration using polydopamine-laced hydroxyapatite collagen calcium silicate scaffolds fabricated by 3D mould printing technology. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 127-133.	2.8	56
8	Accuracy evaluation of intraoral optical impressions: A clinical study using a reference appliance. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 400-405.	2.8	55
9	Extraction frequencies at a university orthodontic clinic in the 21st century: Demographic and diagnostic factors affecting the likelihood of extraction. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2017, 151, 456-462.	1.7	49
10	Enamel Anti-Demineralization Effect of Orthodontic Adhesive Containing Bioactive Glass and Graphene Oxide: An In-Vitro Study. <i>Materials</i> , 2018, 11, 1728.	2.9	40
11	Dentin sealing and antibacterial effects of silver-doped bioactive glass/mesoporous silica nanocomposite: an in vitro study. <i>Clinical Oral Investigations</i> , 2019, 23, 253-266.	3.0	38
12	Mechanical properties and cytocompatibility of biomimetic hydroxyapatite-gelatin nanocomposites. <i>Journal of Materials Research</i> , 2006, 21, 3090-3098.	2.6	29
13	Osteogenic potential of mesenchymal stem cells from rat mandible to regenerate critical sized calvarial defect. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141983042.	5.5	28
14	Titanium-Enriched Hydroxyapatite-Gelatin Scaffolds with Osteogenically Differentiated Progenitor Cell Aggregates for Calvaria Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2013, 19, 1803-1816.	3.1	27
15	Polydopamine-Laced Biomimetic Material Stimulation of Bone Marrow Derived Mesenchymal Stem Cells to Promote Osteogenic Effects. <i>Scientific Reports</i> , 2017, 7, 12984.	3.3	27
16	Global deletion of Optineurin results in altered type I IFN signaling and abnormal bone remodeling in a model of Paget's disease. <i>Cell Death and Differentiation</i> , 2020, 27, 71-84.	11.2	27
17	Direct scaffolding of biomimetic hydroxyapatite-gelatin nanocomposites using aminosilane cross-linker for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2115-2126.	3.6	26
18	Randomized clinical trial of a conventional and a digital workflow for the fabrication of interim crowns: An evaluation of treatment efficiency, fit, and the effect of clinician experience. <i>Journal of Prosthetic Dentistry</i> , 2021, 125, 73-81.	2.8	26

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19	Effect of different sizes of bioactive glass-coated mesoporous silica nanoparticles on dentinal tubule occlusion and mineralization. <i>Clinical Oral Investigations</i> , 2019, 23, 2129-2141.	3.0	25
20	Two-Stage Mesh Deep Learning for Automated Tooth Segmentation and Landmark Localization on 3D Intraoral Scans. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 3158-3166.	8.9	25
21	Effects of Poly(Amidoamine) Dendrimer-Coated Mesoporous Bioactive Glass Nanoparticles on Dentin Remineralization. <i>Nanomaterials</i> , 2019, 9, 591.	4.1	24
22	Proliferation of preosteoblasts on TiO ₂ nanotubes is FAK/RhoA related. <i>RSC Advances</i> , 2015, 5, 38117-38124.	3.6	23
23	Machine learning from clinical data sets of a contemporary decision for orthodontic tooth extraction. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 193-200.	2.8	23
24	Biological Assessment of a Calcium Silicate Incorporated Hydroxyapatite-Gelatin Nanocomposite: A Comparison to Decellularized Bone Matrix. <i>BioMed Research International</i> , 2014, 2014, 1-12.	1.9	22
25	Quantitative skeletal maturation estimation using cone-beam computed tomography-generated cervical vertebral images: a pilot study in 5- to 18-year-old Japanese children. <i>Clinical Oral Investigations</i> , 2015, 19, 2133-2140.	3.0	22
26	Dopamine suppresses osteoclast differentiation via cAMP/PKA/CREB pathway. <i>Cellular Signalling</i> , 2021, 78, 109847.	3.6	22
27	Indentation variability of natural nanocomposite materials. <i>Journal of Materials Research</i> , 2008, 23, 760-767.	2.6	21
28	Understanding technology adoption by orthodontists: A qualitative study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2019, 155, 432-442.	1.7	20
29	An investigation of siloxane cross-linked hydroxyapatite-gelatin/copolymer composites for potential orthopedic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 22888.	6.7	19
30	Remineralization Property of an Orthodontic Primer Containing a Bioactive Glass with Silver and Zinc. <i>Materials</i> , 2017, 10, 1253.	2.9	18
31	CDDO-Me, Sulforaphane and tBHQ attenuate the RANKL-induced osteoclast differentiation via activating the NRF2-mediated antioxidant response. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 637-643.	2.1	18
32	AIM2 Inflammasome's First Decade of Discovery: Focus on Oral Diseases. <i>Frontiers in Immunology</i> , 2020, 11, 1487.	4.8	18
33	Aminosilane as an effective binder for hydroxyapatite-gelatin nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 459-465.	2.4	16
34	Deficiency of optineurin enhances osteoclast differentiation by attenuating the NRF2-mediated antioxidant response. <i>Experimental and Molecular Medicine</i> , 2021, 53, 667-680.	7.7	16
35	In-vivo force decay of nickel-titanium closed-coil springs. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014, 145, 505-513.	1.7	14
36	Concentrations of CTX I, CTX II, DPD, and PYD in the urine as a biomarker for the diagnosis of temporomandibular joint osteoarthritis: A preliminary study. <i>Cranio - Journal of Craniomandibular Practice</i> , 2017, 36, 1-7.	1.4	14

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37	Cervical Vertebral Body's Volume as a New Parameter for Predicting the Skeletal Maturation Stages. <i>BioMed Research International</i> , 2016, 2016, 1-7.	1.9	13
38	In-situ hybridization of calcium silicate and hydroxyapatite-gelatin nanocomposites enhances physical property and in vitro osteogenesis. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 92.	3.6	12
39	Spectral characteristics of caries-related autofluorescence spectra and their use for diagnosis of caries stage. <i>Journal of Biomedical Optics</i> , 2016, 21, 015001.	2.6	12
40	Decellularized pulp matrix as scaffold for mesenchymal stem cell mediated bone regeneration. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142098167.	5.5	12
41	Modification of hydroxyapatite/gelatin composite by polyvinylalcohol. <i>Journal of Materials Science</i> , 2005, 40, 505-509.	3.7	11
42	Diagnosis and staging of caries using spectral factors derived from the blue laser-induced autofluorescence spectrum. <i>Journal of Dentistry</i> , 2017, 67, 77-83.	4.1	10
43	Three-Dimensional Outcome Assessments of Cleft Lip and Palate Patients Undergoing Maxillary Advancement. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 1255e-1265e.	1.4	10
44	3D morphometric quantification of maxillae and defects for patients with unilateral cleft palate via deep learning-based CBCT image auto-segmentation. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 108-116.	2.8	10
45	Roles of autophagy in orthodontic tooth movement. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021, 159, 582-593.	1.7	10
46	Modification of hydroxyapatite/gelatin composite by polyvinylalcohol. <i>Journal of Materials Science</i> , 2005, 40, 2723-2727.	3.7	9
47	Dopaminergic Enhancement of Cellular Adhesion in Bone Marrow Derived Mesenchymal Stem Cells (MSCs). <i>Journal of Stem Cell Research & Therapy</i> , 2017, 07, .	0.3	9
48	Artificial intelligence and machine learning in orthodontics. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 3-5.	2.8	9
49	The role of temperature in forming sol-gel biocomposites containing polydopamine. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7704-7711.	5.8	8
50	Effect of composite type and placement technique on cuspal strain. <i>Journal of Esthetic and Restorative Dentistry</i> , 2018, 30, 30-38.	3.8	8
51	The effect of orthodontic clinical use on the mechanical characteristics of nickel-titanium closed-coil springs. <i>Journal of International Medical Research</i> , 2019, 47, 803-814.	1.0	8
52	Analysis of the relationship between the morphology of the palate and facial skeletal patterns in Class III malocclusion using structural equation modelling. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 87-92.	2.8	7
53	Relationship between the maxillofacial skeletal pattern and the morphology of the mandibular symphysis: Structural equation modeling. <i>Korean Journal of Orthodontics</i> , 2019, 49, 170.	2.3	7
54	Orthodontic loading activates cell-specific autophagy in a force-dependent manner. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, 423-436.e1.	1.7	7

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55	Understanding technology adoption by orthodontists: A quantitative study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, 364-374.	1.7	6
56	Biomimetic polydopamine-laced hydroxyapatite collagen material orients osteoclast behavior to an anti-resorptive pattern without compromising osteoclastsâ€™ coupling to osteoblasts. <i>Biomaterials Science</i> , 2021, 9, 7565-7574.	5.4	4
57	Morphometric analysis for evaluating the relation between incisal guidance angle, occlusal plane angle, and functional temporomandibular joint shape variation. <i>Acta Odontologica Scandinavica</i> , 2018, 76, 287-293.	1.6	3
58	The Inhibition of Radial and Axial Micromovement of Bone Scaffold with Gelfoam® and Titanium Mesh Fixation and Its Effects on Osteointegration. <i>Methods and Protocols</i> , 2019, 2, 20.	2.0	3
59	Difference assessment of composite resins and sound tooth applicable in the resin-embedded tooth for resin repair using fluorescence, microhardness, DIAGNOdent, and X-ray image. <i>Clinical Oral Investigations</i> , 2019, 23, 293-301.	3.0	3
60	Educational debt and the gender gap: Understanding factors influencing orthodontistsâ€™ career decisions. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, e20-e61.	1.7	3
61	Osteogenic Potential of Multipotent Adult Progenitor Cells for Calvaria Bone Regeneration. <i>Advances in Medicine</i> , 2016, 2016, 1-11.	0.8	2
62	Application of bioluminescence resonance energy transfer-based cell tracking approach in bone tissue engineering. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142199546.	5.5	2
63	A multifactorial intervention to increase adherence to oral appliance therapy with a titratable mandibular advancement device for obstructive sleep apnea: a randomized controlled trial. <i>Sleep and Breathing</i> , 2022, 26, 1739-1745.	1.7	2
64	Effects of gelatin on mechanical properties of hydroxyapatite-gelatin nano-composites. <i>Materials Research Society Symposia Proceedings</i> , 2005, 898, 1.	0.1	1
65	Comparison of postoperative changes in the distal and proximal segments between conventional and sliding mini-plate fixation following mandibular setback. <i>Korean Journal of Orthodontics</i> , 2016, 46, 372.	2.3	1
66	Dynamics of alveolar bone healing after the removal of orthodontic temporary anchorage devices. <i>Journal of Periodontal Research</i> , 2019, 54, 388-395.	2.7	1
67	Spectral characteristics of caries autofluorescence obtained from different locations and caries severities. <i>Journal of Biophotonics</i> , 2020, 13, e201900224.	2.3	1
68	COMMENTARY. anterior crossbite correction with a series of clear removable appliances: a case report. <i>Journal of Esthetic and Restorative Dentistry</i> , 2009, 21, 160-160.	3.8	0