

Sung-Hwan Choi

List of Publications by Citations

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104
papers

889
citations

17
h-index

23
g-index

115
ext. papers

1,313
ext. citations

3.7
avg, IF

4.61
L-index

#	Paper	IF	Citations
104	Nonsurgical miniscrew-assisted rapid maxillary expansion results in acceptable stability in young adults. <i>Angle Orthodontist</i> , 2016 , 86, 713-20	2.6	80
103	Impact of malocclusion and common oral diseases on oral health-related quality of life in young adults. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015 , 147, 587-95	2.1	41
102	Time-dependent effects of ultraviolet and nonthermal atmospheric pressure plasma on the biological activity of titanium. <i>Scientific Reports</i> , 2016 , 6, 33421	4.9	34
101	Effect of malocclusion severity on oral health-related quality of life and food intake ability in a Korean population. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016 , 149, 384-90	2.1	32
100	Novel Poly(Methyl Methacrylate) Containing Nanodiamond to Improve the Mechanical Properties and Fungal Resistance. <i>Materials</i> , 2019 , 12,	3.5	26
99	Stability of Pre-Orthodontic Orthognathic Surgery Using Intraoral Vertical Ramus Osteotomy Versus Conventional Treatment. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016 , 74, 610-9	1.8	25
98	Evaluation of the effects of miniscrew incorporation in palatal expanders for young adults using finite element analysis. <i>Korean Journal of Orthodontics</i> , 2018 , 48, 81-89	1.4	24
97	Overcoming the biological aging of titanium using a wet storage method after ultraviolet treatment. <i>Scientific Reports</i> , 2017 , 7, 3833	4.9	23
96	Bioactive resin-based composite with surface pre-reacted glass-ionomer filler and zwitterionic material to prevent the formation of multi-species biofilm. <i>Dental Materials</i> , 2019 , 35, 1331-1341	5.7	23
95	Stability of pre-orthodontic orthognathic surgery depending on mandibular surgical techniques: SSRO vs IVRO. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016 , 44, 1209-15	3.6	22
94	Novel anti-biofouling bioactive calcium silicate-based cement containing 2-methacryloyloxyethyl phosphorylcholine. <i>PLoS ONE</i> , 2019 , 14, e0211007	3.7	19
93	Mussel-Inspired Copolyether Loop with Superior Antifouling Behavior. <i>Macromolecules</i> , 2020 , 53, 3551-3562	3.9	19
92	Effect of wet storage on the bioactivity of ultraviolet light- and non-thermal atmospheric pressure plasma-treated titanium and zirconia implant surfaces. <i>Materials Science and Engineering C</i> , 2019 , 105, 110049	8.3	19
91	Maxillomandibular arch width differences at estimated centers of resistance: Comparison between normal occlusion and skeletal Class III malocclusion. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 167-175	1.4	19
90	Comparison of success rates of orthodontic mini-screws by the insertion method. <i>Korean Journal of Orthodontics</i> , 2012 , 42, 242-8	1.4	19
89	Effect of the ultraviolet light treatment and storage methods on the biological activity of a titanium implant surface. <i>Dental Materials</i> , 2017 , 33, 1426-1435	5.7	18
88	Novel anti-biofouling light-curable fluoride varnish containing 2-methacryloyloxyethyl phosphorylcholine to prevent enamel demineralization. <i>Scientific Reports</i> , 2019 , 9, 1432	4.9	18

87	Effect of Audiovisual Treatment Information on Relieving Anxiety in Patients Undergoing Impacted Mandibular Third Molar Removal. <i>Journal of Oral and Maxillofacial Surgery</i> , 2015 , 73, 2087-92	1.8	16
86	Quantitative Interpretation of Hydration Dynamics Enabled the Fabrication of a Zwitterionic Antifouling Surface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7951-7965	9.5	16
85	Surface changes of anodic oxidized orthodontic titanium miniscrew. <i>Angle Orthodontist</i> , 2012 , 82, 522-8	2.6	16
84	Maxillary transverse expansion in adults: Rationale, appliance design, and treatment outcomes. <i>Seminars in Orthodontics</i> , 2018 , 24, 52-65	1.2	14
83	Retrospective study of maxillary sinus dimensions and pneumatization in adult patients with an anterior open bite. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016 , 150, 796-801	2.1	13
82	Surface roughness of three types of modern plastic bracket slot floors and frictional resistance. <i>Angle Orthodontist</i> , 2014 , 84, 177-83	2.6	13
81	Evaluation of the surface characteristics of anodic oxidized miniscrews and their impact on biomechanical stability: An experimental study in beagle dogs. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016 , 149, 31-8	2.1	12
80	Debonding force and shear bond strength of an array of CAD/CAM-based customized orthodontic brackets, placed by indirect bonding- An In Vitro study. <i>PLoS ONE</i> , 2018 , 13, e0202952	3.7	12
79	Cone-beam computed tomography for the assessment of root-crown ratios of the maxillary and mandibular incisors in a Korean population. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 39-49	1.4	11
78	Changes in tribological and antibacterial properties of poly(methyl methacrylate)-based 3D-printed intra-oral appliances by incorporating nanodiamonds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103992	4.1	11
77	Model Analysis of Digital Models in Moderate to Severe Crowding: In Vivo Validation and Clinical Application. <i>BioMed Research International</i> , 2018 , 2018, 8414605	3	10
76	Changes in psychological health, subjective food intake ability and oral health-related quality of life during orthodontic treatment. <i>Journal of Oral Rehabilitation</i> , 2017 , 44, 860-869	3.4	10
75	Effect of labiolingual inclination of a maxillary central incisor and surrounding alveolar bone loss on periodontal stress: A finite element analysis. <i>Korean Journal of Orthodontics</i> , 2016 , 46, 155-62	1.4	10
74	Ladder-like polysilsesquioxanes with antibacterial chains and durable siloxane networks. <i>Chemical Engineering Journal</i> , 2020 , 393, 124686	14.7	9
73	Evaluation of characteristics of the craniofacial complex and dental maturity in girls with central precocious puberty. <i>Angle Orthodontist</i> , 2018 , 88, 582-589	2.6	9
72	Adult patient with hemifacial microsomia treated with combined orthodontics and distraction osteogenesis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014 , 145, 72-84	2.1	9
71	Comparison of changes in the transverse dental axis between patients with skeletal Class III malocclusion and facial asymmetry treated by orthognathic surgery with and without presurgical orthodontic treatment. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 256-267	1.4	9
70	Durable Oral Biofilm Resistance of 3D-Printed Dental Base Polymers Containing Zwitterionic Materials. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	9

69	Effect of growth hormone treatment on craniofacial growth in children: Idiopathic short stature versus growth hormone deficiency. <i>Journal of the Formosan Medical Association</i> , 2017 , 116, 313-321	3.2	8
68	Surgical-orthodontic treatment for skeletal class II malocclusion with vertical maxillary excess, anterior open bite, and transverse maxillary deficiency. <i>Journal of Craniofacial Surgery</i> , 2012 , 23, e531-5	1.2	8
67	Stress distributions in peri-miniscrew areas from cylindrical and tapered miniscrews inserted at different angles. <i>Korean Journal of Orthodontics</i> , 2016 , 46, 189-98	1.4	8
66	Triangulated Cylinder Origami-Based Piezoelectric/Triboelectric Hybrid Generator to Harvest Coupled Axial and Rotational Motion. <i>Research</i> , 2021 , 2021, 7248579	7.8	8
65	Incorporating Aminated Nanodiamonds to Improve the Mechanical Properties of 3D-Printed Resin-Based Biomedical Appliances. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
64	Similarity index for intuitive assessment of three-dimensional facial asymmetry. <i>Scientific Reports</i> , 2019 , 9, 10959	4.9	7
63	Quantitative analysis of mechanically retentive ceramic bracket base surfaces with a three-dimensional imaging system. <i>Angle Orthodontist</i> , 2013 , 83, 705-11	2.6	7
62	Reverse Actuation of Polyelectrolyte Effect for Antifouling. <i>ACS Nano</i> , 2021 , 15, 6811-6828	16.7	7
61	Intraoral Vertical Ramus Osteotomy Results in Good Long-Term Mandibular Stability in Patients With Mandibular Prognathism and Anterior Open Bite. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016 , 74, 804-10	1.8	6
60	Major factors contributing to anterior and posterior relapse after intraoral vertical ramus osteotomy. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016 , 44, 413-20	3.6	6
59	Severe skeletal Class III malocclusion treated with 2-stage orthognathic surgery with a mandibular step osteotomy. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014 , 145, S125-35	2.1	6
58	Unpredictability of soft tissue changes after camouflage treatment of Class II division 1 malocclusion with maximum anterior retraction using miniscrews. <i>Angle Orthodontist</i> , 2017 , 87, 230-238	2.6	6
57	Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics.. <i>Advanced Science</i> , 2022 , e2105420	13.6	6
56	Resin-Based Sealant with Bioactive Glass and Zwitterionic Material for Remineralisation and Multi-Species Biofilm Inhibition. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
55	The effects of alveolar bone loss and miniscrew position on initial tooth displacement during intrusion of the maxillary anterior teeth: Finite element analysis. <i>Korean Journal of Orthodontics</i> , 2016 , 46, 310-22	1.4	6
54	Subjective food intake ability related to oral health-related quality of life and psychological health. <i>Journal of Oral Rehabilitation</i> , 2016 , 43, 670-7	3.4	6
53	Incorporation of zwitterionic materials into light-curable fluoride varnish for biofilm inhibition and caries prevention. <i>Scientific Reports</i> , 2019 , 9, 19550	4.9	6
52	A prospective, split-mouth, clinical study of orthodontic titanium miniscrews with machined and acid-etched surfaces. <i>Angle Orthodontist</i> , 2019 , 89, 411-417	2.6	5

51	Effects of bodily retraction of mandibular incisors versus mandibular setback surgery on pharyngeal airway space: A comparative study. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 344-352	1.4	5
50	Changes in the craniofacial complex and alveolar bone height of young adults: Applications to dental medicine. <i>Clinical Anatomy</i> , 2016 , 29, 1011-1017	2.5	5
49	Evaluation of skeletal maturity in the cervical vertebrae and hand-wrist in relation to vertical facial types. <i>Korean Journal of Orthodontics</i> , 2019 , 49, 319-325	1.4	5
48	Organosilicate compound filler to increase the mechanical strength of superhydrophilic layer-by-layer assembled film. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 84, 332-339	6.3	4
47	Effects of recycling on the biomechanical characteristics of retrieved orthodontic miniscrews. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 238-247	1.4	4
46	Bio-Interactive Zwitterionic Dental Biomaterials for Improving Biofilm Resistance: Characteristics and Applications. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
45	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells on Amine-Functionalized Titanium Using Humidified Ammonia Supplied Nonthermal Atmospheric Pressure Plasma. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
44	Improvement in the Microbial Resistance of Resin-Based Dental Sealant by Sulfobetaine Methacrylate Incorporation. <i>Polymers</i> , 2020 , 12,	4.5	4
43	A Comparison of Accuracy of Different Dental Restorative Materials between Intraoral Scanning and Conventional Impression-Taking: An In Vitro Study. <i>Materials</i> , 2021 , 14,	3.5	4
42	Clinical applications of miniscrews that broaden the scope of non-surgical orthodontic treatment. <i>Orthodontics and Craniofacial Research</i> , 2021 , 24 Suppl 1, 48-58	3	4
41	Incorporation of carboxybetaine methacrylate into poly(methyl methacrylate) to prevent multi-species biofilm formation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 86, 194-204	6.3	3
40	Primary Stability of Orthodontic Titanium Miniscrews due to Cortical Bone Density and Re-Insertion. <i>Materials</i> , 2020 , 13,	3.5	3
39	Effects of Intraoral Length and Cortical Bone Density on the Primary Stability of Orthodontic Miniscrews. <i>Materials</i> , 2020 , 13,	3.5	3
38	Is There a Difference in Stability After Intraoral Vertical Ramus Osteotomy Between Vertically High-Angle and Normal-Angle Patients?. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016 , 74, 2252-2260	1.8	3
37	Changes in position of the hyoid bone and volume of the pharyngeal airway after mandibular setback: three-dimensional analysis. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2019 , 57, 29-35	1.4	3
36	Analysis of the Morphological Characteristics of the Palatal Rugae for Three-Dimensional Superimposition of Digital Models in Korean Subjects. <i>BioMed Research International</i> , 2018 , 2018, 39369-39378	1.8	3
35	Evaluation of cephalometric characteristics and skeletal maturation of the cervical vertebrae and hand-wrist in girls with central precocious puberty. <i>Korean Journal of Orthodontics</i> , 2020 , 50, 181-187	1.4	2
34	Effects of Changes in the Frankfort Horizontal Plane Definition on the Three-Dimensional Cephalometric Evaluation of Symmetry. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7956	2.6	2

33	Development of a Bioactive Flowable Resin Composite Containing a Zinc-Doped Phosphate-Based Glass. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
32	Influence of Orthodontic Anchor Screw Anchorage Method on the Stability of Artificial Bone: An In Vitro Study. <i>Materials</i> , 2020 , 13,	3.5	2
31	The influence of age on lip-line cant in adults: a cross-sectional study. <i>Korean Journal of Orthodontics</i> , 2016 , 46, 81-6	1.4	2
30	Intraoral Premaxillary Distraction in a Patient With Maxillary Retrognathic Cleft Lip and Palate: A Case Report. <i>Cleft Palate-Craniofacial Journal</i> , 2019 , 56, 827-830	1.9	2
29	Evaluation of success rate and biomechanical stability of ultraviolet-photofunctionalized miniscrews with short lengths. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021 , 159, 158-166	2.1	2
28	Differences in soft-tissue thickness changes after bimaxillary surgery between patients with vertically high angle and normal angle. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021 , 159, 30-40	2.1	2
27	Enamel Demineralization Resistance and Remineralization by Various Fluoride-Releasing Dental Restorative Materials. <i>Materials</i> , 2021 , 14,	3.5	2
26	A New Approach to Set the Absolute Midsagittal Plane of the Mandible Using a Similarity Index in Skeletal Class III Patients with Facial Asymmetry. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8550	2.6	1
25	Factors Affecting the Failure of TADs and Efforts to Improve the Biomechanical Stability of TADs 2020 , 61-67		1
24	Long-Term Stability of Pre-Orthodontic Orthognathic Bimaxillary Surgery Using Intraoral Vertical Ramus Osteotomy Versus Conventional Surgery. <i>Journal of Oral and Maxillofacial Surgery</i> , 2018 , 76, 1753-1762 ¹	1.8	1
23	Orthognathic treatment with autotransplantation of a third molar. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2013 , 144, 737-47	2.1	1
22	Interdisciplinary treatment for an adult patient with anterior open bite, severe periodontitis, and intellectual disability. <i>Journal of Craniofacial Surgery</i> , 2015 , 26, e240-4	1.2	1
21	Surface Characteristics and Microbiological Analysis of a Vat-Photopolymerization Additive-Manufacturing Dental Resin.. <i>Materials</i> , 2022 , 15,	3.5	1
20	Comparison of soft tissue changes between incisor tipping and translation after premolar extraction.. <i>Korean Journal of Orthodontics</i> , 2022 , 52, 42-52	1.4	1
19	Unraveling the Structured Solvation Shell of Zwitterion Nanoparticles for Controlled Release of Nitric Oxide. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54363-54374	9.5	1
18	Antifibrotic effects of sulforaphane treatment on gingival elasticity reduces orthodontic relapse after rotational tooth movement in beagle dogs. <i>Korean Journal of Orthodontics</i> , 2020 , 50, 391-400	1.4	1
17	Mussel-Inspired Multiloop Polyethers for Antifouling Surfaces. <i>Biomacromolecules</i> , 2021 ,	6.9	1
16	Polysilsesquioxane with potent resistance to intraoral stress: Functional coating material for the advanced dental materials. <i>Applied Surface Science</i> , 2021 , 578, 152085	6.7	1

15	Stability of bimaxillary surgery involving intraoral vertical ramus osteotomy with or without presurgical miniscrew-assisted rapid palatal expansion in adult patients with skeletal Class III malocclusion. <i>Korean Journal of Orthodontics</i> , 2020 , 50, 304-313	1.4	1
14	Tissue-specific biomarkers in gingival crevicular fluid are correlated with external root resorption caused by constant mechanical load: an in vivo study. <i>Clinical Oral Investigations</i> , 2021 , 25, 6321-6333	4.2	1
13	Stability and success rate of dual-thread miniscrews. <i>Angle Orthodontist</i> , 2021 , 91, 509-514	2.6	1
12	Tomographic similarity scan with a computed modified absolute mandibular midsagittal plane for precise and objective localization of mandibular asymmetry. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104465	7	1
11	Effect of nicotine on orthodontic tooth movement and bone remodeling in rats. <i>Korean Journal of Orthodontics</i> , 2021 , 51, 282-292	1.4	1
10	Multivalent network modifier upregulates bioactivity of multispecies biofilm-resistant polyalkenoate cement.. <i>Bioactive Materials</i> , 2022 , 14, 219-233	16.7	0
9	The success and effectiveness of miniscrew-assisted rapid palatal expansion are age- and sex-dependent. <i>Clinical Oral Investigations</i> , 2021 , 1	4.2	0
8	Comprehensive Treatment of a Skeletal Class III Growing Patient with Alveolar Bone Hypertrophy in the Anterior Mandible Associated with Becker's Nevus Syndrome: A Case Report. <i>Children</i> , 2021 , 8,	2.8	0
7	Body-mediated energy loss conversion for personalized cell vitalization. <i>Nano Energy</i> , 2021 , 87, 106209	17.1	0
6	Skeletal and alveolar changes in conventional rapid palatal expansion (RPE) and miniscrew-assisted RPE (MARPE): a prospective randomized clinical trial using low-dose CBCT.. <i>BMC Oral Health</i> , 2022 , 22, 114	3.7	0
5	Comprehensive orthodontic treatment of a young girl with an odontogenic keratocyst and impacted teeth in the mandible. <i>Korean Journal of Orthodontics</i> , 2020 , 50, 63-71	1.4	
4	Reader's Forum. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 275-276	1.4	
3	Reader's Forum. <i>Korean Journal of Orthodontics</i> , 2015 , 45, 57-8	1.4	
2	The effect of genetic polymorphisms on treatment duration following premolar extraction. <i>Scientific Reports</i> , 2021 , 11, 15942	4.9	
1	Orthopedic and Nonsurgical Orthodontic Treatment of Adolescent Skeletal Class III Malocclusion Using Bone-Anchored Maxillary Protraction and Temporary Anchorage Devices: A Case Report. <i>Children</i> , 2022 , 9, 683	2.8	