

Sung-Hwan Choi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Surface Characteristics and Microbiological Analysis of a Vat-Photopolymerization Additive-Manufacturing Dental Resin.. <i>Materials</i> , 2022 , 15, | 3.5 | 1 |
| 103 | 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 |
| 102 | Multivalent network modifier upregulates bioactivity of multispecies biofilm-resistant polyalkenoate cement.. <i>Bioactive Materials</i> , 2022 , 14, 219-233 | 16.7 | 0 |
| 101 | Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics.. <i>Advanced Science</i> , 2022 , e2105420 | 13.6 | 6 |
| 100 | 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 |
| 99 | 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 | |
| 98 | 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 |
| 97 | 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 |
| 96 | Mussel-Inspired Multiloop Polyethers for Antifouling Surfaces. <i>Biomacromolecules</i> , 2021 , | 6.9 | 1 |
| 95 | 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 |
| 94 | Reverse Actuation of Polyelectrolyte Effect for Antifouling. <i>ACS Nano</i> , 2021 , 15, 6811-6828 | 16.7 | 7 |
| 93 | 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 |
| 92 | 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 |
| 91 | Stability and success rate of dual-thread miniscrews. <i>Angle Orthodontist</i> , 2021 , 91, 509-514 | 2.6 | 1 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |

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| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | Triangulated Cylinder Origami-Based Piezoelectric/Triboelectric Hybrid Generator to Harvest Coupled Axial and Rotational Motion. <i>Research</i> , 2021 , 2021, 7248579 | 7.8 | 8 |
| 82 | Enamel Demineralization Resistance and Remineralization by Various Fluoride-Releasing Dental Restorative Materials. <i>Materials</i> , 2021 , 14, | 3.5 | 2 |
| 81 | The effect of genetic polymorphisms on treatment duration following premolar extraction. <i>Scientific Reports</i> , 2021 , 11, 15942 | 4.9 | |
| 80 | Body-mediated energy loss conversion for personalized cell vitalization. <i>Nano Energy</i> , 2021 , 87, 106209 | 17.1 | 0 |
| 79 | 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 |
| 78 | 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 |
| 77 | Factors Affecting the Failure of TADs and Efforts to Improve the Biomechanical Stability of TADs 2020 , 61-67 | | 1 |
| 76 | Ladder-like polysilsesquioxanes with antibacterial chains and durable siloxane networks. <i>Chemical Engineering Journal</i> , 2020 , 393, 124686 | 14.7 | 9 |
| 75 | 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 | |
| 74 | 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 |
| 73 | 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 |
| 72 | Incorporating Aminated Nanodiamonds to Improve the Mechanical Properties of 3D-Printed Resin-Based Biomedical Appliances. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 7 |
| 71 | Mussel-Inspired Copolyether Loop with Superior Antifouling Behavior. <i>Macromolecules</i> , 2020 , 53, 3551-3562 | 3.9 | 19 |
| 70 | 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 |

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| 69 | 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 |
| 68 | 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 |
| 67 | Primary Stability of Orthodontic Titanium Miniscrews due to Cortical Bone Density and Re-Insertion. <i>Materials</i> , 2020 , 13, | 3.5 | 3 |
| 66 | 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 |
| 65 | Bio-Interactive Zwitterionic Dental Biomaterials for Improving Biofilm Resistance: Characteristics and Applications. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 4 |
| 64 | Development of a Bioactive Flowable Resin Composite Containing a Zinc-Doped Phosphate-Based Glass. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 2 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | Resin-Based Sealant with Bioactive Glass and Zwitterionic Material for Remineralisation and Multi-Species Biofilm Inhibition. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 6 |
| 59 | Improvement in the Microbial Resistance of Resin-Based Dental Sealant by Sulfobetaine Methacrylate Incorporation. <i>Polymers</i> , 2020 , 12, | 4.5 | 4 |
| 58 | Effects of Intrabony Length and Cortical Bone Density on the Primary Stability of Orthodontic Miniscrews. <i>Materials</i> , 2020 , 13, | 3.5 | 3 |
| 57 | Novel anti-biofouling bioactive calcium silicate-based cement containing 2-methacryloyloxyethyl phosphorylcholine. <i>PLoS ONE</i> , 2019 , 14, e0211007 | 3.7 | 19 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | Similarity index for intuitive assessment of three-dimensional facial asymmetry. <i>Scientific Reports</i> , 2019 , 9, 10959 | 4.9 | 7 |
| 52 | 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 |

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| 51 | Novel Poly(Methyl Methacrylate) Containing Nanodiamond to Improve the Mechanical Properties and Fungal Resistance. <i>Materials</i> , 2019 , 12, | 3.5 | 26 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | Maxillary transverse expansion in adults: Rationale, appliance design, and treatment outcomes. <i>Seminars in Orthodontics</i> , 2018 , 24, 52-65 | 1.2 | 14 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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, 3936938 | 1.8 | 3 |
| 40 | 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 |
| 39 | Overcoming the biological aging of titanium using a wet storage method after ultraviolet treatment. <i>Scientific Reports</i> , 2017 , 7, 3833 | 4.9 | 23 |
| 38 | 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 |
| 37 | Reader's Forum. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 275-276 | 1.4 | |
| 36 | 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 |
| 35 | 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 |
| 34 | 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} | 2.6 | 6 |

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| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | Effects of recycling on the biomechanical characteristics of retrieved orthodontic miniscrews. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 238-247 | 1.4 | 4 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | Nonsurgical miniscrew-assisted rapid maxillary expansion results in acceptable stability in young adults. <i>Angle Orthodontist</i> , 2016 , 86, 713-20 | 2.6 | 80 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |

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|----|--|-----|----|
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | Reader's Forum. <i>Korean Journal of Orthodontics</i> , 2015 , 45, 57-8 | 1.4 | |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | Orthognathic treatment with autotransplantation of a third molar. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2013 , 144, 737-47 | 2.1 | 1 |
| 4 | 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 |
| 3 | 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 |
| 2 | Surface changes of anodic oxidized orthodontic titanium miniscrew. <i>Angle Orthodontist</i> , 2012 , 82, 522-8 | 2.6 | 16 |
| 1 | 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 |