

Seong Joo Heo

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,575
citations

218381

26
h-index

205818

48
g-index

105
all docs

105
docs citations

105
times ranked

3008
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved biological performance of Ti implants due to surface modification by micro-arc oxidation. <i>Biomaterials</i> , 2004, 25, 2867-2875.	5.7	629
2	Evaluation of design parameters of osseointegrated dental implants using finite element analysis. <i>Journal of Oral Rehabilitation</i> , 2002, 29, 565-574.	1.3	210
3	Microrough titanium surface affects biologic response in MG63 osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 1023-1032.	2.1	110
4	Association of prosthetic features and peri-implantitis: A cross-sectional study. <i>Journal of Clinical Periodontology</i> , 2020, 47, 392-403.	2.3	94
5	Tissue-engineered growth of bone by marrow cell transplantation using porous calcium metaphosphate matrices. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 216-223.	3.0	93
6	Stress distributions in maxillary bone surrounding overdenture implants with different overdenture attachments. <i>Journal of Oral Rehabilitation</i> , 2005, 32, 193-205.	1.3	93
7	Effects of Printing Parameters on the Fit of Implant-Supported 3D Printing Resin Prosthetics. <i>Materials</i> , 2019, 12, 2533.	1.3	82
8	Fractal analysis of mandibular bony healing after orthognathic surgery. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2002, 94, 763-767.	1.6	61
9	Flexural Strength of 3D-Printing Resin Materials for Provisional Fixed Dental Prostheses. <i>Materials</i> , 2020, 13, 3970.	1.3	56
10	Marginal accuracy and fracture strength of ceromer/fiber-reinforced composite crowns: Effect of variations in preparation design. <i>Journal of Prosthetic Dentistry</i> , 2002, 88, 388-395.	1.1	50
11	Effect of bone quality and implant surgical technique on implant stability quotient (ISQ) value. <i>Journal of Advanced Prosthodontics</i> , 2011, 3, 10.	1.1	50
12	A 3-year prospective radiographic evaluation of marginal bone level around different implant systems. <i>Journal of Oral Rehabilitation</i> , 2010, 37, 538-544.	1.3	49
13	Effects of adhesion molecules on the behavior of osteoblast-like cells and normal human fibroblasts on different titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 640-651.	2.1	44
14	The relationship between implant stability quotient values and implant insertion variables: a clinical study. <i>Journal of Oral Rehabilitation</i> , 2012, 39, 151-159.	1.3	44
15	Biofunctional porous anodized titanium implants for enhanced bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3639-3648.	2.1	43
16	Dimensional accuracy and surface characteristics of 3D-printed dental casts. <i>Journal of Prosthetic Dentistry</i> , 2021, 126, 427-437.	1.1	40
17	Effect of magnetic field on the fibronectin adsorption, cell attachment and proliferation on titanium surface. <i>Clinical Oral Implants Research</i> , 2005, 16, 557-562.	1.9	35
18	Comparison of Five-Axis Milling and Rapid Prototyping for Implant Surgical Templates. <i>International Journal of Oral and Maxillofacial Implants</i> , 2014, 29, 374-383.	0.6	35

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19	Dimensional Accuracy of Dental Models for Three-Unit Prostheses Fabricated by Various 3D Printing Technologies. <i>Materials</i> , 2021, 14, 1550.	1.3	33
20	The effect of Er:YAG laser irradiation on the scanning electron microscopic structure and surface roughness of various implant surfaces: an in vitro study. <i>Lasers in Medical Science</i> , 2011, 26, 767-776.	1.0	31
21	Enhanced fibronectin-mediated cell adhesion of human osteoblast by fibroblast growth factor, FGF-2. <i>Biotechnology Letters</i> , 2002, 24, 1659-1663.	1.1	28
22	Effect of Biomimetic Deposition on Anodized Titanium Surfaces. <i>Journal of Dental Research</i> , 2011, 90, 711-716.	2.5	28
23	Marginal Accuracy and Internal Fit of 3-D Printing Laser-Sintered Co-Cr Alloy Copings. <i>Materials</i> , 2017, 10, 93.	1.3	28
24	Effect of tooth brushing and thermal cycling on a surface change of ceromers finished with different methods. <i>Journal of Oral Rehabilitation</i> , 2002, 29, 816-822.	1.3	27
25	Composition and Crystallization of Hydroxyapatite Coating Layer Formed by Electron Beam Deposition. <i>Journal of the American Ceramic Society</i> , 2003, 86, 186-188.	1.9	27
26	Comparison of the mechanical properties and microstructures of fractured surface for Co-Cr alloy fabricated by conventional cast, 3-D printing laser-sintered and CAD/CAM milled techniques. <i>The Journal of Korean Academy of Prosthodontics</i> , 2014, 52, 67.	0.0	27
27	The Effect of Abutment Screw Length on Screw Loosening in Dental Implants with External Abutment Connections After Thermocycling. <i>International Journal of Oral and Maxillofacial Implants</i> , 2014, 29, 59-62.	0.6	26
28	Human Stem Cell Responses and Surface Characteristics of 3D Printing Co-Cr Dental Material. <i>Materials</i> , 2019, 12, 3419.	1.3	25
29	Effects of anodized oxidation or turned implants on bone healing after using conventional drilling or trabecular compaction technique: histomorphometric analysis and RFA. <i>Clinical Oral Implants Research</i> , 2006, 17, 644-650.	1.9	22
30	Mechanical Properties and Metal-Ceramic Bond Strength of Co-Cr Alloy Manufactured by Selective Laser Melting. <i>Materials</i> , 2020, 13, 5745.	1.3	22
31	A survey of the satisfaction of patients who have undergone implant surgery with and without employing a computer-guided implant surgical template. <i>Journal of Advanced Prosthodontics</i> , 2014, 6, 395.	1.1	19
32	Axial Displacement of External and Internal Implant-Abutment Connection Evaluated by Linear Mixed Model Analysis. <i>International Journal of Oral and Maxillofacial Implants</i> , 2015, 30, 1387-1399.	0.6	19
33	An In Vitro Evaluation of the Loosening of Different Interchangeable Abutments in Internal-Connection Type Implants. <i>International Journal of Oral and Maxillofacial Implants</i> , 2017, 32, 350-355.	0.6	19
34	Comparison of implant component fractures in external and internal type: A 12-year retrospective study. <i>Journal of Advanced Prosthodontics</i> , 2018, 10, 155.	1.1	19
35	Hydroxyapatite-based composite for dental implants: An in vivo removal torque experiment. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 714-721.	3.0	17
36	Optimizing Third Molar Autotransplantation: Applications of Reverse-Engineered Surgical Templates and Rapid Prototyping of Three-Dimensional Teeth. <i>Journal of Oral and Maxillofacial Surgery</i> , 2014, 72, 1653-1659.	0.5	17

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37	Survival rate and clinical evaluation of the implants in implant assisted removable partial dentures: surveyed crown and overdenture. <i>Journal of Advanced Prosthodontics</i> , 2020, 12, 239.	1.1	17
38	Microarray-based expression analysis of human osteoblast-like cell response to anodized titanium surface. <i>Biotechnology Letters</i> , 2004, 26, 399-402.	1.1	16
39	Cellular responses on anodized titanium discs after laser irradiation. <i>Lasers in Surgery and Medicine</i> , 2008, 40, 738-742.	1.1	15
40	Strain of implants depending on occlusion types in mandibular implant-supported fixed prostheses. <i>Journal of Advanced Prosthodontics</i> , 2011, 3, 1.	1.1	13
41	Wettability and cellular response of UV light irradiated anodized titanium surface. <i>Journal of Advanced Prosthodontics</i> , 2011, 3, 63.	1.1	12
42	Osteoclastogenesis Behavior of Zirconia for Dental Implant. <i>Materials</i> , 2019, 12, 732.	1.3	12
43	A study on the mandibular movement of anterior openbite patients. <i>Journal of Oral Rehabilitation</i> , 2000, 27, 817-822.	1.3	11
44	Comparative study on stress distribution around internal tapered connection implants according to fit of cement- and screw-retained prostheses. <i>Journal of Advanced Prosthodontics</i> , 2013, 5, 312.	1.1	11
45	Clinical Performance of Implant Crown Retained Removable Partial Dentures for Mandibular Edentulism—A Retrospective Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 2170.	1.0	11
46	Mechanical complications of implant-supported restorations with internal conical connection implants: A 14-year retrospective study. <i>Journal of Prosthetic Dentistry</i> , 2023, 129, 732-740.	1.1	11
47	The patients' satisfaction following implant treatment. <i>The Journal of Korean Academy of Prosthodontics</i> , 2008, 46, 569.	0.0	10
48	A comparative study of gold UCLA-type and CAD/CAM titanium implant abutments. <i>Journal of Advanced Prosthodontics</i> , 2014, 6, 46.	1.1	10
49	Effects of Bonding Agents on Metal-Ceramic Bond Strength of Co-Cr Alloys Fabricated by Selective Laser Melting. <i>Materials</i> , 2020, 13, 4322.	1.3	10
50	Epithelial Thickness of the Palatal Mucosa: A Histomorphometric Study in Koreans. <i>Anatomical Record</i> , 2010, 293, 1966-1970.	0.8	9
51	A comparison of bone bed preparation with laser and conventional drill on the relationship between implant stability quotient (ISQ) values and implant insertion variables. <i>Journal of Advanced Prosthodontics</i> , 2010, 2, 148.	1.1	9
52	Surveyed restoration and RPD framework design utilizing electronic surveying. <i>The Journal of Korean Academy of Prosthodontics</i> , 2011, 49, 354.	0.0	9
53	Post traumatic malocclusion and its prosthetic treatment. <i>Journal of Advanced Prosthodontics</i> , 2010, 2, 88.	1.1	8
54	Customized abutment and screw-type implant prostheses after cementation based on the digital intra-oral impression technique. <i>The Journal of Korean Academy of Prosthodontics</i> , 2012, 50, 67.	0.0	8

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55	Accuracy comparison of buccal bite scans by five intra-oral scanners. <i>Journal of Dental Rehabilitation and Applied Science</i> , 2018, 34, 17-31.	0.1	8
56	Cellular Response of Anodized Titanium Surface by Poly(Lactide-co-Glycolide)/Bone Morphogenic Protein-2. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 591-599.	1.6	7
57	Comparison of CAD/CAM abutment and prefabricated abutment in Morse taper internal type implant after cyclic loading: Axial displacement, removal torque, and tensile removal force. <i>Journal of Advanced Prosthodontics</i> , 2019, 11, 305.	1.1	7
58	Digital duplication of provisional prosthesis to fabricate definitive prosthesis for full mouth rehabilitation using double scan technique. <i>The Journal of Korean Academy of Prosthodontics</i> , 2021, 59, 63.	0.0	7
59	New Rehabilitation Concept for Maxillary Edentulism: A Clinical Retrospective Study of Implant Crown Retained Removable Partial Dentures. <i>Journal of Clinical Medicine</i> , 2021, 10, 1773.	1.0	7
60	Development and evaluation of digital subtraction radiography computer program. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2004, 98, 471-475.	1.6	6
61	Implant surface treatments affect gene expression of Runx2, osteogenic key marker. <i>Journal of Advanced Prosthodontics</i> , 2009, 1, 91.	1.1	6
62	Full mouth rehabilitation of partially and fully edentulous patient with crown lengthening procedure: a case report. <i>Journal of Advanced Prosthodontics</i> , 2010, 2, 50.	1.1	6
63	Comparison of Customized Abutments Made from Titanium and a Machinable Precious Alloy. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016, 31, 92-100.	0.6	6
64	Optimization of growth inducing factors for colony forming and attachment of bone marrow-derived mesenchymal stem cells regarding bioengineering application. <i>Journal of Advanced Prosthodontics</i> , 2014, 6, 379.	1.1	5
65	Clinical evaluation of the removable partial dentures with implant fixed prostheses. <i>The Journal of Korean Academy of Prosthodontics</i> , 2016, 54, 239.	0.0	5
66	Comparison of experimental peri-implantitis models after application of ex vivo BMP2 gene therapy using periodontal ligament stem cells. <i>Scientific Reports</i> , 2020, 10, 3590.	1.6	5
67	Alternative approach to salvaging an implant with a fractured screw fragment: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 2021, 125, 18-21.	1.1	5
68	RPD framework fabrication using computer-aided design (CAD) and rapid prototyping. <i>The Journal of Korean Academy of Prosthodontics</i> , 2017, 55, 94.	0.0	5
69	Characteristics and response of mouse bone marrow derived novel low adherent mesenchymal stem cells acquired by quantification of extracellular matrix. <i>Journal of Advanced Prosthodontics</i> , 2014, 6, 351.	1.1	4
70	Accuracy of Surgical Robot System Compared to Surgical Guide for Dental Implant Placement: A Pilot Study. <i>Journal of Implantology and Applied Sciences</i> , 2022, 26, 27-38.	0.0	4
71	Full mouth rehabilitation of destroyed dentition with rotational path removable partial denture: a case report. <i>Journal of Advanced Prosthodontics</i> , 2010, 2, 46.	1.1	3
72	Accuracy of 5-axis precision milling for guided surgical template. <i>The Journal of Korean Academy of Prosthodontics</i> , 2010, 48, 294.	0.0	3

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73	Ovariectomy and timing of impaired maxillary alveolar bone regeneration: An experimental study in rats. <i>Journal of Periodontology</i> , 2020, 91, 1357-1366.	1.7	3
74	Expression and characterization of recombinant NH ₂ -terminal cell binding fragment of vitronectin in <i>E. coli</i> . <i>Biotechnology Letters</i> , 2003, 25, 1973-1975.	1.1	2
75	Influence of the accuracy of abutment tooth preparation on the marginal adaptation of Co-Cr alloy copings fabricated with a selective laser sintering technology. <i>The Journal of Korean Academy of Prosthodontics</i> , 2015, 53, 337.	0.0	2
76	Immediate Implant Placement at a Periapical Lesion Site: A Case Series. <i>Journal of Oral Implantology</i> , 2018, 44, 281-286.	0.4	2
77	Implant-supported Restoration Cases Fabricated from Digital Impression Data with the Help of Intraoral Scanner and Virtual Articulator. <i>The Korean Academy of Oral and Maxillofacial Implantology</i> , 2017, 21, 14-23.	0.3	2
78	Characterization and Differentiation of Circulating Blood Mesenchymal Stem Cells and the Role of Phosphatidylinositol 3-Kinase in Modulating the Adhesion. <i>International Journal of Stem Cells</i> , 2019, 12, 265-278.	0.8	2
79	Clinical and radiographic evaluations of implants as surveyed crowns for Class I removable partial dentures: A retrospective study. <i>Journal of Advanced Prosthodontics</i> , 2022, 14, 108.	1.1	2
80	Full mouth rehabilitation of an oligodontia patient with intellectual disability based on shortened dental arch concept: a case report. <i>The Journal of Korean Academy of Prosthodontics</i> , 2012, 50, 330.	0.0	1
81	Investigation of anodized titanium implants coated with triterpenoids extracted from black cohosh: an animal study. <i>Journal of Advanced Prosthodontics</i> , 2014, 6, 14.	1.1	1
82	An in vitro study of mesenchymal stem cell proliferation on titanium discs coated with rhTGF- β 2/PLGA by electrospray. <i>The Journal of Korean Academy of Prosthodontics</i> , 2016, 54, 120.	0.0	1
83	Full mouth rehabilitation using orthodontic treatment and implants in patient with collapsed occlusion: A case report. <i>The Journal of Korean Academy of Prosthodontics</i> , 2019, 57, 439.	0.0	1
84	Micromorphometric change of TiO ₂ based implant surface conditioned with tetracycline-HCl. <i>The Journal of the Korean Academy of Periodontology</i> , 2007, 37, 599.	0.1	1
85	Effect of cyclic loading on axial displacement of abutment into implant with internal tapered connection: a pilot study. <i>The Journal of Korean Academy of Prosthodontics</i> , 2013, 51, 315.	0.0	1
86	Effects of anaerobic sealing agents on preload maintenance of screw-retained implant prosthesis with surface of screws. <i>The Journal of Korean Academy of Prosthodontics</i> , 2020, 58, 103.	0.0	1
87	Strains of abutment and bones on implant overdentures. <i>The Journal of Korean Academy of Prosthodontics</i> , 2009, 47, 222.	0.0	0
88	Trend analysis of prosthodontic treatment modality between 2005 and 2008 in Seoul National University Dental Hospital. <i>Journal of Advanced Prosthodontics</i> , 2010, 2, 4.	1.1	0
89	Effect of bone-implant contact pattern on bone strain distribution: finite element method study. <i>The Journal of Korean Academy of Prosthodontics</i> , 2011, 49, 214.	0.0	0
90	Osseointegration of the titanium implant coated with rhTGF- β 2/PLGA particles by electrospray: a preliminary microCT analyzing rabbit study. <i>The Journal of Korean Academy of Prosthodontics</i> , 2014, 52, 298.	0.0	0

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91	Prosthetic rehabilitation of marginal mandibulectomized patient using implant-supported removable partial denture. The Journal of Korean Academy of Prosthodontics, 2016, 54, 126.	0.0	0
92	Inhibition of Osteoclast differentiation based on precipitation time of titanium surfaces immersed in modified simulated body fluid. The Journal of Korean Academy of Prosthodontics, 2019, 57, 142.	0.0	0
93	Prosthetic rehabilitation of soft palate resection edentulous patient with maxillary obturator. The Journal of Korean Academy of Prosthodontics, 2019, 57, 475.	0.0	0
94	The effect of titanium surface treatment on osteoblast-like cell attachment and proliferation. The Journal of the Korean Academy of Periodontology, 2000, 30, 491.	0.1	0
95	Histological response of anodized titanium implant. The Journal of the Korean Academy of Periodontology, 2005, 35, 525.	0.1	0
96	Soft tissue responses to differential shapes of the implant abutment. The Journal of the Korean Academy of Periodontology, 2006, 36, 167.	0.1	0
97	Correction of Movement Error in Parallel-beam CT for Dental Implantology. The Korean Academy of Oral and Maxillofacial Implantology, 2020, 24, 51-61.	0.3	0
98	Implant-supported Restoration Cases Fabricated from Digital Impression Data with the Help of Intraoral Scanner and Virtual Articulator <!--Implant-supported Restoration Cases Fabricated from Digital Impression Data with the Help of Intraoral Scanner and Virtual Articulator-->. The Korean Academy of Oral and Maxillofacial Implantology, 2017, 21, 14-23.	0.3	0
99	Full-mouth rehabilitation of a patient with loss of posterior support and collapsed occlusion utilizing dental CAD-CAM system. The Journal of Korean Academy of Prosthodontics, 2022, 60, 44.	0.0	0
100	Full mouth rehabilitation of the patient with severely worn dentition and limited vertical dimension. The Journal of Korean Academy of Prosthodontics, 2022, 60, 91.	0.0	0
101	Effect of Indented Structures on the Retention of Cement-Retained Implant-Supported Crowns by Provisional Cement. Journal of Implantology and Applied Sciences, 2022, 26, 84-93.	0.0	0