

# Tae-Sung Bae

## List of Publications by Year in descending order

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77  
papers

941  
citations

430843

18  
h-index

552766

26  
g-index

77  
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77  
docs citations

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times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of osseointegration of Ti-6Al-4V ELI alloy orthodontic mini-screws through anodization, cyclic pre-calcification, and heat treatments. <i>Progress in Orthodontics</i> , 2022, 23, 11.	3.5	8
2	Corrosion properties and biocompatibility of strontium doped calcium phosphate coated magnesium prepared by electrodeposition. <i>Materials Today Communications</i> , 2022, 31, 103759.	1.9	4
3	Effect of heat treatment time on the properties of lithium disilicate glass-ceramics. <i>Korean Journal of Dental Materials</i> , 2022, 49, 37-52.	0.1	0
4	Color comparison of glaze-treated multi-coloured lithium disilicate and zirconia. <i>Korean Journal of Dental Materials</i> , 2021, 48, 1-14.	0.1	0
5	Effect of the cutting flute of the orthodontic miniscrew on insertion and removal torque. <i>Korean Journal of Dental Materials</i> , 2021, 48, 53-60.	0.1	0
6	Fabrication and Characterization of Biodegradable Gelatin Methacrylate/Biphasic Calcium Phosphate Composite Hydrogel for Bone Tissue Engineering. <i>Nanomaterials</i> , 2021, 11, 617.	4.1	24
7	Mammalian and Fish Gelatin Methacryloyl-Alginate Interpenetrating Polymer Network Hydrogels for Tissue Engineering. <i>ACS Omega</i> , 2021, 6, 17433-17441.	3.5	21
8	Characteristics of Biodegradable Gelatin Methacrylate Hydrogel Designed to Improve Osteoinduction and Effect of Additional Binding of Tannic Acid on Hydrogel. <i>Polymers</i> , 2021, 13, 2535.	4.5	3
9	Osteoblast cytocompatibility and antibacterial effect of ginger main compounds. <i>Korean Journal of Dental Materials</i> , 2021, 48, 159-174.	0.1	1
10	Effects of microstructural change of zirconia surface on tensile bond strength with resin cement. <i>Korean Journal of Dental Materials</i> , 2021, 48, 211-220.	0.1	0
11	Evaluation of Corrosion Behavior and In Vitro of Strontium-Doped Calcium Phosphate Coating on Magnesium. <i>Materials</i> , 2021, 14, 6625.	2.9	4
12	Effect of cyclic pre-calcification treatment on bioactivity of Ti-6Al-4V alloy orthodontic miniscrew. <i>Korean Journal of Dental Materials</i> , 2021, 48, 245-254.	0.1	2
13	Evaluation of bone regeneration ability of Mg mesh coated with calcium phosphate by cyclic precalcification treatment. <i>Korean Journal of Dental Materials</i> , 2021, 48, 229-244.	0.1	0
14	Evaluation of fracture strength for single crowns made of the different types of lithium disilicate glass-ceramics. <i>Odontology / the Society of the Nippon Dental University</i> , 2020, 108, 231-239.	1.9	16
15	Debonding/crack initiation and flexural strengths of bilayered zirconia core and veneering ceramic composites. <i>Dental Materials Journal</i> , 2020, 39, 206-213.	1.8	3
16	Effect of investment materials on 3-point flexural strength of heat pressed zirconia core. <i>Korean Journal of Dental Materials</i> , 2020, 47, 211-220.	0.1	0
17	Effect of fabrication method of lithium disilicate crown on fitness. <i>Korean Journal of Dental Materials</i> , 2020, 47, 157-168.	0.1	0
18	Comparative Evaluation of Mechanical Properties and Wear Ability of Five CAD/CAM Dental Blocks. <i>Materials</i> , 2019, 12, 2252.	2.9	20

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19	Osteogenesis-Related Gene Expression and Guided Bone Regeneration of a Strontium-Doped Calcium-Phosphate-Coated Titanium Mesh. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6715-6724.	5.2	18
20	Effects of Liner-Bonding of Implant-Supported Glass-Ceramic Crown to Zirconia Abutment on Bond Strength and Fracture Resistance. <i>Materials</i> , 2019, 12, 2798.	2.9	6
21	Biocompatibility Characteristics of Titanium Coated with Multi Walled Carbon Nanotubes-Hydroxyapatite Nanocomposites. <i>Materials</i> , 2019, 12, 224.	2.9	19
22	Effect of strontium doping on the biocompatibility of calcium phosphate-coated titanium substrates. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2019, 17, 228080001982651.	1.6	12
23	<i>In vitro</i> wear behavior between enamel cusp and three aesthetic restorative materials: Zirconia, porcelain, and composite resin. <i>Journal of Advanced Prosthodontics</i> , 2019, 11, 7.	2.6	15
24	In vivo bone regeneration by differently designed titanium membrane with or without surface treatment: a study in rat calvarial defects. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141983146.	5.5	13
25	Effect of the surface treatment and hole size of pure titanium mesh on new bone formation. <i>Emerging Materials Research</i> , 2019, 8, 6-13.	0.7	1
26	Comparative evaluation of the mechanical properties of CAD/CAM dental blocks. <i>Odontology / the Society of the Nippon Dental University</i> , 2019, 107, 360-367.	1.9	31
27	Effect of finishing condition on fracture strength of monolithic zirconia crowns. <i>Dental Materials Journal</i> , 2019, 38, 203-210.	1.8	12
28	Effect of composite coating with poly-dopamine/PCL on the corrosion resistance of magnesium. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 328-337.	3.4	8
29	Evaluation of bioactivity and osseointegration for ti-6al-4v alloy implant modified by anodic oxidation and cyclic precalcification treatments. <i>Korean Journal of Dental Materials</i> , 2019, 46, 43-52.	0.1	1
30	The effect of two-step surface modification for Ti-Ta-Mo-Zr alloys on bone regeneration: An evaluation using calvarial defect on rat model. <i>Applied Surface Science</i> , 2018, 442, 630-639.	6.1	7
31	The effect of multi-walled carbon nanotubes/hydroxyapatite nanocomposites on biocompatibility. <i>Advanced Composite Materials</i> , 2018, 27, 53-65.	1.9	16
32	Multi-Walled Carbon Nanotube Coating on Alkali Treated TiO <sub>2</sub> Nanotubes Surface for Improvement of Biocompatibility. <i>Coatings</i> , 2018, 8, 159.	2.6	7
33	Enhancing of Osseointegration with Propolis-Loaded TiO <sub>2</sub> Nanotubes in Rat Mandible for Dental Implants. <i>Materials</i> , 2018, 11, 61.	2.9	27
34	Effect of Lithium Disilicate Reinforced Liner Treatment on Bond and Fracture Strengths of Bilayered Zirconia All-Ceramic Crown. <i>Materials</i> , 2018, 11, 77.	2.9	7
35	<i>In Vitro</i> and <i>In Vivo</i> Characterization of N-Acetyl-L-Cysteine Loaded Beta-Tricalcium Phosphate Scaffolds. <i>International Journal of Biomaterials</i> , 2018, 2018, 1-11.	2.4	3
36	Effects of conditions for anodization and cyclic precalcification treatments on surface characteristics and bioactivity. <i>Korean Journal of Dental Materials</i> , 2018, 45, 243-256.	0.1	1

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37	Effect of Ca-P compound formed by hydrothermal treatment on biodegradation and biocompatibility of Mg-3Al-1Zn-1.5Ca alloy; in vitro and in vivo evaluation. <i>Scientific Reports</i> , 2017, 7, 712.	3.3	18
38	Corrosion resistance and bioactivity enhancement of MAO coated Mg alloy depending on the time of hydrothermal treatment in Ca-EDTA solution. <i>Scientific Reports</i> , 2017, 7, 9061.	3.3	28
39	Shear Bond Strength of Al <sub>2</sub> O <sub>3</sub> Sandblasted Y-TZP Ceramic to the Orthodontic Metal Bracket. <i>Materials</i> , 2017, 10, 148.	2.9	25
40	Effects of Titanium Mesh Surfaces-Coated with Hydroxyapatite/ $\beta$ -Tricalcium Phosphate Nanotubes on Acetabular Bone Defects in Rabbits. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1462.	4.1	2
41	Improvement in the Tensile Bond Strength between 3Y-TZP Ceramic and Enamel by Surface Treatments. <i>Materials</i> , 2016, 9, 702.	2.9	5
42	The effect of different fluoride application methods on the remineralization of initial carious lesions. <i>Restorative Dentistry &amp; Endodontics</i> , 2016, 41, 121.	1.5	17
43	The effect of hydrothermal spark discharge anodization in the early integration of implants in sheep sinuses. <i>Clinical Oral Implants Research</i> , 2016, 27, 975-980.	4.5	5
44	Effect upon biocompatibility and biocorrosion properties of plasma electrolytic oxidation in trisodium phosphate electrolytes. <i>Biointerphases</i> , 2016, 11, 011006.	1.6	6
45	Comparison of Guided Bone Regeneration Between Surface-Modified and Pristine Titanium Membranes in a Rat Calvarial Model. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016, 31, 581-590.	1.4	8
46	Evaluation of Marginal and Internal Fitness of Zirconia Cores Fabricated on Abutments Prepared with Four Different Tip-designed Burs. <i>Korean Journal of Dental Materials</i> , 2016, 43, 281-288.	0.1	0
47	The effect of APH treatment on surface bonding and osseointegration of Ti-6Al-7Nb implants: An in vitro and in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 641-648.	3.4	23
48	Anodisation Increases Integration of Unloaded Titanium Implants in Sheep Mandible. <i>BioMed Research International</i> , 2015, 2015, 1-8.	1.9	18
49	Characterization and biocompatibility of a calcium-containing AZ31B alloy as a biodegradable material. <i>Journal of Materials Science</i> , 2015, 50, 4672-4682.	3.7	10
50	Enhanced compatibility and initial stability of Ti6Al4V alloy orthodontic miniscrews subjected to anodization, cyclic precalcification, and heat treatment. <i>Korean Journal of Orthodontics</i> , 2014, 44, 246.	2.3	23
51	Electrophoretic Deposition of Carbon Nanotubes over TiO <sub>2</sub> Nanotubes: Evaluation of Surface Properties and Biocompatibility. <i>Bioinorganic Chemistry and Applications</i> , 2014, 2014, 1-7.	4.1	14
52	Effect of alkali and heat treatments for bioactivity of TiO <sub>2</sub> nanotubes. <i>Applied Surface Science</i> , 2014, 321, 412-419.	6.1	36
53	Characterization and corrosion resistance of pure Mg modified by micro-arc oxidation using phosphate electrolyte with/without NaOH. <i>Surface and Interface Analysis</i> , 2014, 46, 7-15.	1.8	15
54	The bioactivity of enhanced Ti-32Nb-5Zr alloy with anodic oxidation and cyclic calcification. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1595-1600.	2.2	7

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55	Effects of polydopamine coating on the bioactivity of titanium for dental implants. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1647-1655.	2.2	24
56	Evaluation of Osseointegration around Tibial Implants in Rats by Ibandronate-Treated Nanotubular Ti-32Nb-5Zr Alloy. Biomolecules and Therapeutics, 2014, 22, 563-569.	2.4	15
57	Enhanced biocompatibility of a pre-calcified nanotubular TiO <sub>2</sub> layer on Ti-6Al-7Nb alloy. Surface and Coatings Technology, 2013, 236, 127-134.	4.8	34
58	Mechanical properties of Ti-6Al-4V alloy mini-implant system. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1601-1605.	2.2	0
59	Fracture strength of borosilicate glass melt infiltrated zirconia 3-unit bridge. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1607-1613.	2.2	2
60	Titania nanotubes supported gelatin stabilized gold nanoparticles for medical implants. Journal of Materials Chemistry, 2011, 21, 12078.	6.7	40
61	The effect of melt infiltration of borosilicate glass on biaxial flexural strength of porcelain-veneered zirconia. Metals and Materials International, 2011, 17, 557-562.	3.4	2
62	The effect of annealing temperatures on surface properties, hydroxyapatite growth and cell behaviors of TiO <sub>2</sub> nanotubes. Surface and Interface Analysis, 2011, 43, 998-1005.	1.8	85
63	Influence of the number of carboxyl groups on the nucleation of hydroxyapatite. Metals and Materials International, 2010, 16, 333-338.	3.4	5
64	The influence of ceramic surface treatments on the microtensile bond strength of resin cements to Y-TZP ceramic. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 996-1000.	1.0	0
65	Temperature driven morphological changes of hydrothermally prepared copper oxide nanoparticles. Surface and Interface Analysis, 2009, 41, 259-263.	1.8	27
66	Film characteristics of anodic oxidized AZ91D magnesium alloy by applied power. Surface and Interface Analysis, 2009, 41, 524-530.	1.8	12
67	Precalcification Treatment of TiO <sub>2</sub> Nanotube on Ti-6Al-4V Alloy. The Journal of Korean Academy of Prosthodontics, 2009, 47, 39.	0.1	2
68	Biomimetic apatite formation and biocompatibility on chemically treated Ti-6Al-7Nb alloy. Surface and Interface Analysis, 2008, 40, 37-42.	1.8	14
69	Surface characteristics of AZ91D alloy anodized with various conditions. Surface and Interface Analysis, 2008, 40, 1270-1277.	1.8	14
70	Influence of electrolyte temperature on pure titanium modified by electrochemical treatment for implant. Surface and Interface Analysis, 2008, 40, 1538-1544.	1.8	5
71	Fatigue Characteristics of Five Types of Implant-Abutment Joint Designs. Metals and Materials International, 2008, 14, 133-138.	3.4	27
72	Characterization of Surface Oxide Films and Cell Toxicity Evaluations with a Quenched Titanium Surface. Metals and Materials International, 2008, 14, 443-448.	3.4	6

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73	Effect of Electrolyte pH on the Structure and in vitro Osteoblasts Response to Anodic Titanium Oxide. Metals and Materials International, 2008, 14, 607-613.	3.4	7
74	The effect of fluoride treatment on titanium treated with anodic spark oxidation. Metals and Materials International, 2007, 13, 117-122.	3.4	6
75	Surface characteristics of anodized and hydrothermally treated titanium with an increasing concentration of calcium ion. Metals and Materials International, 2006, 12, 399-406.	3.4	14
76	Effects of anodizing voltage on the anodized and hydrothermally treated titanium surface. Metals and Materials International, 2006, 12, 505-511.	3.4	26
77	The influence of output current on the tensile strength of laser-welded titanium joints. Metals and Materials International, 2003, 9, 493-496.	3.4	4