

Bong-Ju Kim

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

2,435
citations

236833

25
h-index

223716

46
g-index

114
all docs

114
docs citations

114
times ranked

3638
citing authors

#	ARTICLE	IF	CITATIONS
1	Directed and Systematic Differentiation of Cardiovascular Cells From Mouse Induced Pluripotent Stem Cells. <i>Circulation</i> , 2008, 118, 498-506.	1.6	465
2	Requirement of Interaction between Mast Cells and Skin Dendritic Cells to Establish Contact Hypersensitivity. <i>PLoS ONE</i> , 2011, 6, e25538.	1.1	119
3	Basophils are required for the induction of Th2 immunity to haptens and peptide antigens. <i>Nature Communications</i> , 2013, 4, 1739.	5.8	108
4	Hyaluronic Acid/PLGA Core/Shell Fiber Matrices Loaded with EGCG Beneficial to Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2016, 5, 3035-3045.	3.9	91
5	Cytoplasmic Na ⁺ -dependent modulation of mitochondrial Ca ²⁺ via electrogenic mitochondrial Na ⁺ -Ca ²⁺ exchange. <i>Journal of Physiology</i> , 2008, 586, 1683-1697.	1.3	81
6	The destiny of Ca ²⁺ released by mitochondria. <i>Journal of Physiological Sciences</i> , 2015, 65, 11-24.	0.9	69
7	Synergistic effects of reduced graphene oxide and hydroxyapatite on osteogenic differentiation of MC3T3-E1 preosteoblasts. <i>Carbon</i> , 2015, 95, 1051-1060.	5.4	66
8	Stimulating effect of graphene oxide on myogenesis of C2C12 myoblasts on RGD peptide-decorated PLGA nanofiber matrices. <i>Journal of Biological Engineering</i> , 2015, 9, 22.	2.0	64
9	The mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, regulates automaticity of HL-1 cardiomyocytes. <i>Scientific Reports</i> , 2013, 3, 2766.	1.6	61
10	Toxicity of Zero- and One-Dimensional Carbon Nanomaterials. <i>Nanomaterials</i> , 2019, 9, 1214.	1.9	60
11	Graphene oxide-coated guided bone regeneration membranes with enhanced osteogenesis: Spectroscopic analysis and animal study. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 540-551.	3.4	53
12	Dose- and Time-Dependent Cytotoxicity of Layered Black Phosphorus in Fibroblastic Cells. <i>Nanomaterials</i> , 2018, 8, 408.	1.9	53
13	β ² -Adrenergic stimulation does not activate Na ⁺ /Ca ²⁺ exchange current in guinea pig, mouse, and rat ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C601-C608.	2.1	52
14	Time-dependent intracellular trafficking of FITC-conjugated epigallocatechin-3-O-gallate in L-929 cells. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9652-9659.	1.4	47
15	Reduced graphene oxide coating enhances osteogenic differentiation of human mesenchymal stem cells on Ti surfaces. <i>Biomaterials Research</i> , 2021, 25, 4.	3.2	45
16	Preventive Effects of Epigallocatechin-3-O-Gallate against Replicative Senescence Associated with p53 Acetylation in Human Dermal Fibroblasts. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-13.	1.9	39
17	Pivotal role of mitochondrial Na ⁺ -Ca ²⁺ exchange in antigen receptor mediated Ca ²⁺ signalling in DT40 and A20 B lymphocytes. <i>Journal of Physiology</i> , 2012, 590, 459-474.	1.3	36
18	Three-dimensional graphene oxide-coated polyurethane foams beneficial to myogenesis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 762-774.	1.9	35

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19	Enhanced osteogenic differentiation of human mesenchymal stem cells on Ti surfaces with electrochemical nanopattern formation. <i>Materials Science and Engineering C</i> , 2019, 99, 1174-1181.	3.8	32
20	<i>In situ</i> forming gelatin/graphene oxide hydrogels for facilitated C2C12 myoblast differentiation. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 527-539.	3.4	31
21	Enhanced osseointegration of dental implants with reduced graphene oxide coating. <i>Biomaterials Research</i> , 2022, 26, 11.	3.2	31
22	Advanced Techniques for Skeletal Muscle Tissue Engineering and Regeneration. <i>Bioengineering</i> , 2020, 7, 99.	1.6	29
23	Comparative Analysis of Stress in the Periodontal Ligament and Center of Rotation in the Tooth after Orthodontic Treatment Depending on Clear Aligner Thickness—Finite Element Analysis Study. <i>Materials</i> , 2021, 14, 324.	1.3	28
24	Polyphenols-loaded electrospun nanofibers in bone tissue engineering and regeneration. <i>Biomaterials Research</i> , 2021, 25, 29.	3.2	27
25	Low-frequency pulsed electromagnetic field pretreated bone marrow-derived mesenchymal stem cells promote the regeneration of crush-injured rat mental nerve. <i>Neural Regeneration Research</i> , 2018, 13, 145.	1.6	27
26	The Effects of M1 and M2 Macrophages on Odontogenic Differentiation of Human Dental Pulp Cells. <i>Journal of Endodontics</i> , 2017, 43, 596-601.	1.4	22
27	Aligned laminin core-polydioxanone/collagen shell fiber matrices effective for neuritogenesis. <i>Scientific Reports</i> , 2018, 8, 5570.	1.6	22
28	Maximal strength and endurance scores of the tongue, lip, and cheek in healthy, normal Koreans. <i>Journal of the Korean Association of Oral and Maxillofacial Surgeons</i> , 2017, 43, 221.	0.3	21
29	Ternary nanofiber matrices composed of PCL/black phosphorus/collagen to enhance osteodifferentiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 802-810.	2.9	21
30	Optimized Dental Implant Fixture Design for the Desirable Stress Distribution in the Surrounding Bone Region: A Biomechanical Analysis. <i>Materials</i> , 2019, 12, 2749.	1.3	21
31	Optimal Position of Attachment for Removable Thermoplastic Aligner on the Lower Canine Using Finite Element Analysis. <i>Materials</i> , 2020, 13, 3369.	1.3	21
32	Cell Migration According to Shape of Graphene Oxide Micropatterns. <i>Micromachines</i> , 2016, 7, 186.	1.4	19
33	Roles of the mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, in B lymphocyte chemotaxis. <i>Scientific Reports</i> , 2016, 6, 28378.	1.6	18
34	Adenovirus vector-mediated ex vivo gene transfer of brain-derived neurotrophic factor (BDNF) to human umbilical cord blood-derived mesenchymal stem cells (UCB-MSCs) promotes crush-injured rat sciatic nerve regeneration. <i>Neuroscience Letters</i> , 2017, 643, 111-120.	1.0	18
35	Finite Element Analysis of Novel Separable Fixture for Easy Retrieval in Case with Peri-Implantitis. <i>Materials</i> , 2019, 12, 235.	1.3	18
36	Fracture of Standard Titanium Mandibular Reconstruction Plates and Preliminary Study of Three-Dimensional Printed Reconstruction Plates. <i>Journal of Oral and Maxillofacial Surgery</i> , 2020, 78, 153-166.	0.5	18

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37	Influence of Scanning-Aid Materials on the Accuracy and Time Efficiency of Intraoral Scanners for Full-Arch Digital Scanning: An In Vitro Study. <i>Materials</i> , 2021, 14, 2340.	1.3	18
38	Efficient Design of a Clear Aligner Attachment to Induce Bodily Tooth Movement in Orthodontic Treatment Using Finite Element Analysis. <i>Materials</i> , 2021, 14, 4926.	1.3	18
39	Spontaneously promoted osteogenic differentiation of MC3T3-E1 preosteoblasts on ultrathin layers of black phosphorus. <i>Materials Science and Engineering C</i> , 2021, 128, 112309.	3.8	17
40	Biocompatibility and Biocorrosion of Hydroxyapatite-Coated Magnesium Plate: Animal Experiment. <i>Materials</i> , 2017, 10, 1149.	1.3	16
41	Suitability of Metal Block Augmentation for Large Uncontained Bone Defect in Revision Total Knee Arthroplasty (TKA). <i>Journal of Clinical Medicine</i> , 2019, 8, 384.	1.0	16
42	The Stability of Hydroxyapatite/Poly-L-Lactide Fixation for Unilateral Angle Fracture of the Mandible Assessed Using a Finite Element Analysis Model. <i>Materials</i> , 2020, 13, 228.	1.3	16
43	Effectiveness of Low-Level Laser Therapy with a 915 Nm Wavelength Diode Laser on the Healing of Intraoral Mucosal Wound: An Animal Study and a Double-Blind Randomized Clinical Trial. <i>Medicina (Lithuania)</i> , 2019, 55, 405.	0.8	15
44	Clinical Evaluation of Time Efficiency and Fit Accuracy of Lithium Disilicate Single Crowns between Conventional and Digital Impression. <i>Materials</i> , 2020, 13, 5467.	1.3	14
45	Mitochondria Na ⁺ -Ca ²⁺ Exchange in Cardiomyocytes and Lymphocytes. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 193-201.	0.8	13
46	Dicalcium Phosphate Coated with Graphene Synergistically Increases Osteogenic Differentiation In Vitro. <i>Coatings</i> , 2018, 8, 13.	1.2	13
47	Mesenchymal Stem Cell Therapy in Submandibular Salivary Gland Allotransplantation: Experimental Study. <i>Transplantation</i> , 2019, 103, 1111-1120.	0.5	13
48	Graphene-Based Nanocomposites as Promising Options for Hard Tissue Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 103-117.	0.8	12
49	Increased O ₂ consumption in excitation-contraction coupling in hypertrophied rat heart slices related to increased Na ⁺ -Ca ²⁺ exchange activity. <i>Journal of Physiological Sciences</i> , 2009, 59, 63-74.	0.9	11
50	Protective Effects of Melon Extracts on Bone Strength, Mineralization, and Metabolism in Rats with Ovariectomy-Induced Osteoporosis. <i>Antioxidants</i> , 2019, 8, 306.	2.2	11
51	Biphasic Calcium Phosphate Sphere Graft Combined with a Double-Layer Non-Crosslinked Collagen Membrane Technique for Ridge Preservation: A Randomized Controlled Animal Study. <i>Materials</i> , 2020, 13, 18.	1.3	11
52	Biomechanical evaluation of unilateral subcondylar fracture of the mandible on the varying materials: A finite element analysis. <i>PLoS ONE</i> , 2020, 15, e0240352.	1.1	11
53	Stimulated myogenic differentiation of C2C12 murine myoblasts by using graphene oxide. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1910-1914.	0.3	10
54	Spontaneous Osteodifferentiation of Bone Marrow-Derived Mesenchymal Stem Cells by Hydroxyapatite Covered with Graphene Nanosheets. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 818-825.	0.0	10

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55	Maxillary Sinus Augmentation With Calcium Phosphate Double-Coated Anorganic Bovine Bone. <i>Implant Dentistry</i> , 2019, 28, 39-45.	1.7	9
56	Physiological functions of mitochondrial Na ⁺ -Ca ²⁺ exchanger, NCLX, in lymphocytes. <i>Cell Calcium</i> , 2020, 85, 102114.	1.1	9
57	Influence of Applied Liquid-Type Scanning-Aid Material on the Accuracy of the Scanned Image: An In Vitro Experiment. <i>Materials</i> , 2020, 13, 2034.	1.3	9
58	Tantalum \hat{c} Poly (L-lactic acid) nerve conduit for peripheral nerve regeneration. <i>Neuroscience Letters</i> , 2020, 731, 135049.	1.0	9
59	Recombinant human fibroblast growth factor-2 promotes nerve regeneration and functional recovery after mental nerve crush injury. <i>Neural Regeneration Research</i> , 2017, 12, 629.	1.6	9
60	Measurement of hepatitis B virus DNA in fresh versus processed dentin from chronically infected patients. <i>Journal of Translational Medicine</i> , 2018, 16, 351.	1.8	8
61	Effects of Chewing Exerciser on the Recovery of Masticatory Function Recovery after Orthognathic Surgery: A Single-Center Randomized Clinical Trial, a Preliminary Study. <i>Medicina (Lithuania)</i> , 2020, 56, 483.	0.8	8
62	Effect of scanning-aid agents on the scanning accuracy in specially designed metallic models: A laboratory study. <i>PLoS ONE</i> , 2022, 17, e0267742.	1.1	8
63	Chondrosarcoma of the jaw: a retrospective series. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2019, 128, 106-111.	0.2	7
64	Tissue Engineering of Oral Mucosa and Salivary Gland: Disease Modeling and Clinical Applications. <i>Micromachines</i> , 2020, 11, 1066.	1.4	7
65	Ridge Augmentation Using $\hat{2}$ -Tricalcium Phosphate and Biphasic Calcium Phosphate Sphere with Collagen Membrane in Chronic Pathologic Extraction Sockets with Dehiscence Defect: A Pilot Study in Beagle Dogs. <i>Materials</i> , 2020, 13, 1452.	1.3	7
66	A New Method of Measuring the Volumetric Change of Alveolar Bone Around Dental Implants Using Computed Tomography. <i>Journal of Clinical Medicine</i> , 2020, 9, 1238.	1.0	7
67	Comparison Between Cortical Drill and Cortical Tap and Their Influence on Primary Stability of Macro-Thread Tapered Implant in Thin Crestal Cortical Bone and Low-Density Bone. <i>Implant Dentistry</i> , 2017, 26, 711-717.	1.7	7
68	Hydroxyapatite coated magnesium alloy for peripheral nerve regeneration. <i>Oral Biology Research</i> , 2018, 42, 105-113.	0.0	7
69	Hollow Abutment Screw Design for Easy Retrieval in Case of Screw Fracture in Dental Implant System. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-6.	1.1	6
70	Evaluation of New Octacalcium Phosphate-Coated Xenograft in Rats Calvarial Defect Model on Bone Regeneration. <i>Materials</i> , 2020, 13, 4391.	1.3	6
71	Biomechanical Efficacy and Effectiveness of Orthodontic Treatment with Transparent Aligners in Mild Crowding Dentition \hat{c} A Finite Element Analysis. <i>Materials</i> , 2022, 15, 3118.	1.3	6
72	Phosphorylation of Na ⁺ /Ca ²⁺ Exchanger in TAB-Induced Cardiac Hypertrophy. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 373-376.	1.8	5

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73	Survey study on the Preference of Dental Medical Personnel for Dental CAD/CAM Milling Machines. <i>The Journal of Korean Academy of Prosthodontics</i> , 2018, 56, 188.	0.0	5
74	Characteristics of Human Responses in a Braked Stationary Lead Vehicle during Low-Speed, Rear-End Collisions. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1255-1264.	1.1	5
75	A New Approach to Accuracy Evaluation of Single-Tooth Abutment Using Two-Dimensional Analysis in Two Intraoral Scanners. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1021.	1.2	5
76	Early Loading of Mandibular Molar Single Implants: 1 Year Results of a Randomized Controlled Clinical Trial. <i>Materials</i> , 2020, 13, 3912.	1.3	5
77	Effects of gamma irradiation on the measurement of hepatitis B virus DNA in dentin harvested from chronically infected patients. <i>Annals of Translational Medicine</i> , 2020, 8, 314-314.	0.7	5
78	Mechanical Assessment of Fatigue Characteristics between Single- and Multi-Directional Cyclic Loading Modes on a Dental Implant System. <i>Materials</i> , 2020, 13, 1545.	1.3	5
79	How Do Parameters of Implant Primary Stability Correspond with CT-Evaluated Bone Quality in the Posterior Maxilla? A Correlation Analysis. <i>Materials</i> , 2021, 14, 270.	1.3	5
80	Differential Toxicity of Graphene Family Nanomaterials Concerning Morphology. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1351, 23-39.	0.8	5
81	Per-oral cross-facial sural nerve graft for facial reanimation. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2018, 40, 22.	0.7	4
82	Noise Reduction Using Active Vibration Control Methods in CAD/CAM Dental Milling Machines. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1516.	1.3	4
83	Assessment of Color Perception and Preference with Eye-Tracking Analysis in a Dental Treatment Environment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7981.	1.2	4
84	Potential of Carbon-Based Nanocomposites for Dental Tissue Engineering and Regeneration. <i>Materials</i> , 2021, 14, 5104.	1.3	4
85	In Situ Crosslinkable Collagen-Based Hydrogels for 3D Printing of Dermis-Mimetic Constructs. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 045014.	0.9	4
86	NHE-1 blockade reversed changes in calcium transient in myocardial slices from isoproterenol-induced hypertrophied rat left ventricle. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 431-435.	1.0	3
87	Bone-level implants placed in the anterior maxilla: an open-label, single-arm observational study. <i>Journal of Periodontal and Implant Science</i> , 2017, 47, 312.	0.9	3
88	A User-Specific Approach for Comfortable Application of Advanced 3D CAD/CAM Technique in Dental Environments Using the Harmonic Series Noise Model. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4307.	1.3	3
89	Application of Soundproofing Materials for Noise Reduction in Dental CAD/CAM Milling Machines. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2768.	1.3	3
90	Factors Affecting Functional Sensory Recovery After Inferior Alveolar Nerve Repair Using the Nerve Sliding Technique. <i>Journal of Oral and Maxillofacial Surgery</i> , 2021, 79, 1794-1800.	0.5	3

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91	FK506 immunosuppression for submandibular salivary gland allotransplantation in rabbit. Journal of the Korean Association of Oral and Maxillofacial Surgeons, 2020, 46, 197-203.	0.3	3
92	Functional Graphene Nanomaterials-Based Hybrid Scaffolds for Osteogenesis and Chondrogenesis. Advances in Experimental Medicine and Biology, 2022, 1351, 65-87.	0.8	3
93	Mitochondrial Ca ²⁺ Flux through Na ⁺ /Ca ²⁺ Exchange. Annals of the New York Academy of Sciences, 2007, 1099, 507-511.	1.8	2
94	A Finite Element Analysis of Biomechanical Stability of Compression Plate Fixation System in according to Existing of Fracture Gap after Bone Fracture Augmentation. Journal of the Korean Fracture Society, 2010, 23, 83.	0.1	1
95	Biomechanical assessment of a novel bone lengthening plate system " A cadaveric study. Clinical Biomechanics, 2013, 28, 232-238.	0.5	1
96	Antibacterial and Anti-Inflammatory Potential of Mouthwash Composition Based on Natural Extracts. Applied Sciences (Switzerland), 2021, 11, 4227.	1.3	1
97	Biomechanical integrity of hydroxyapatite/poly-l-lactide fixation system in mandibular body reconstruction with deep circumflex iliac artery free flap. Journal of Materials Research and Technology, 2022, 18, 4662-4671.	2.6	1
98	Role of Mitochondrial Na-Ca Exchange on BCR-Mediated Ca ²⁺ Signalling in B Lymphocytes. Biophysical Journal, 2012, 102, 662a.	0.2	0
99	Role of Mitochondrial NCX on CXCL12-Induced Chemotaxis in A20 B Lymphocytes. Biophysical Journal, 2013, 104, 112a.	0.2	0
100	Prolongation of Beating Rate Caused by Reduction of NCLX, a Mitochondrial Na ⁺ -Ca ²⁺ Exchanger, in HL-1 Cardiomyocytes. Biophysical Journal, 2013, 104, 108a-109a.	0.2	0
101	Inhibition of mitochondrial Na ⁺ -Ca ²⁺ exchange by CGP-37157 attenuates BCR-mediated apoptosis in DT40 B lymphocytes. Journal of the Korean Physical Society, 2015, 67, 1915-1919.	0.3	0
102	Fatal septic cavernous sinus thrombosis following dental extraction: a case report. Oral Surgery, 2019, 12, 153-158.	0.1	0
103	Questionnaire survey for the clinical trial participants who experienced both digital and conventional impression. Journal of Dental Rehabilitation and Applied Science, 2018, 34, 270-279.	0.1	0
104	A review on the accuracy assessment methods of 3-dimensional digital dental models. Journal of Dental Rehabilitation and Applied Science, 2019, 35, 55-63.	0.1	0
105	Title is missing!. , 2020, 15, e0240352.		0
106	Title is missing!. , 2020, 15, e0240352.		0
107	Title is missing!. , 2020, 15, e0240352.		0
108	Title is missing!. , 2020, 15, e0240352.		0

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109	Title is missing!. , 2020, 15, e0240352.		0
110	Title is missing!. , 2020, 15, e0240352.		0