

Jung-Hwan Lee

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

3,675
citations

126858

33
h-index

161767

54
g-index

112
all docs

112
docs citations

112
times ranked

4452
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced drug delivery systems and artificial skin grafts for skin wound healing. <i>Advanced Drug Delivery Reviews</i> , 2019, 146, 209-239.	6.6	369
2	Emerging properties of hydrogels in tissue engineering. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141876828.	2.3	160
3	Multifunctional GelMA platforms with nanomaterials for advanced tissue therapeutics. <i>Bioactive Materials</i> , 2022, 8, 267-295.	8.6	153
4	Nano-graphene oxide incorporated into PMMA resin to prevent microbial adhesion. <i>Dental Materials</i> , 2018, 34, e63-e72.	1.6	111
5	Silk fibroin/collagen protein hybrid cell-encapsulating hydrogels with tunable gelation and improved physical and biological properties. <i>Acta Biomaterialia</i> , 2018, 69, 218-233.	4.1	91
6	Hierarchical microchanneled scaffolds modulate multiple tissue-regenerative processes of immune-responses, angiogenesis, and stem cell homing. <i>Biomaterials</i> , 2020, 227, 119548.	5.7	86
7	Materials roles for promoting angiogenesis in tissue regeneration. <i>Progress in Materials Science</i> , 2021, 117, 100732.	16.0	81
8	Intracellular co-delivery of Sr ion and phenamil drug through mesoporous bioglass nanocarriers synergizes BMP signaling and tissue mineralization. <i>Acta Biomaterialia</i> , 2017, 60, 93-108.	4.1	79
9	Coating biopolymer nanofibers with carbon nanotubes accelerates tissue healing and bone regeneration through orchestrated cell- and tissue-regulatory responses. <i>Acta Biomaterialia</i> , 2020, 108, 97-110.	4.1	75
10	Spatiotemporal control of CRISPR/Cas9 gene editing. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 238.	7.1	73
11	Development of long-term antimicrobial poly(methyl methacrylate) by incorporating mesoporous silica nanocarriers. <i>Dental Materials</i> , 2016, 32, 1564-1574.	1.6	72
12	Nanocements produced from mesoporous bioactive glass nanoparticles. <i>Biomaterials</i> , 2018, 162, 183-199.	5.7	69
13	Drug/ion co-delivery multi-functional nanocarrier to regenerate infected tissue defect. <i>Biomaterials</i> , 2017, 142, 62-76.	5.7	65
14	Dual actions of osteoclastic-inhibition and osteogenic-stimulation through strontium-releasing bioactive nanoscale cement imply biomaterial-enabled osteoporosis therapy. <i>Biomaterials</i> , 2021, 276, 121025.	5.7	62
15	Sol-gel-derived bioactive glass nanoparticle-incorporated glass ionomer cement with or without chitosan for enhanced mechanical and biomineralization properties. <i>Dental Materials</i> , 2017, 33, 805-817.	1.6	58
16	Nano-shape varied cerium oxide nanomaterials rescue human dental stem cells from oxidative insult through intracellular or extracellular actions. <i>Acta Biomaterialia</i> , 2017, 50, 142-153.	4.1	58
17	Effect of Aminated Mesoporous Bioactive Glass Nanoparticles on the Differentiation of Dental Pulp Stem Cells. <i>PLoS ONE</i> , 2016, 11, e0150727.	1.1	58
18	Non-thermal atmospheric pressure plasma functionalized dental implant for enhancement of bacterial resistance and osseointegration. <i>Dental Materials</i> , 2017, 33, 257-270.	1.6	57

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19	Nanotherapeutics for regeneration of degenerated tissue infected by bacteria through the multiple delivery of bioactive ions and growth factor with antibacterial/angiogenic and osteogenic/odontogenic capacity. <i>Bioactive Materials</i> , 2021, 6, 123-136.	8.6	53
20	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis. <i>Biomaterials</i> , 2020, 242, 119919.	5.7	52
21	Nano-graphene oxide/polyurethane nanofibers: mechanically flexible and myogenic stimulating matrix for skeletal tissue engineering. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173141990042.	2.3	51
22	Rechargeable microbial anti-adhesive polymethyl methacrylate incorporating silver sulfadiazine-loaded mesoporous silica nanocarriers. <i>Dental Materials</i> , 2017, 33, e361-e372.	1.6	50
23	The Biom mineralization of a Bioactive Glass-Incorporated Light-Curable Pulp Capping Material Using Human Dental Pulp Stem Cells. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	50
24	Carbon nanotube incorporation in PMMA to prevent microbial adhesion. <i>Scientific Reports</i> , 2019, 9, 4921.	1.6	49
25	Selective Killing Effects of Cold Atmospheric Pressure Plasma with NO Induced Dysfunction of Epidermal Growth Factor Receptor in Oral Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2016, 11, e0150279.	1.1	43
26	Dual-ion delivery for synergistic angiogenesis and bactericidal capacity with silica-based microsphere. <i>Acta Biomaterialia</i> , 2019, 83, 322-333.	4.1	41
27	Magnetic Nanocomposite Scaffold-Induced Stimulation of Migration and Odontogenesis of Human Dental Pulp Cells through Integrin Signaling Pathways. <i>PLoS ONE</i> , 2015, 10, e0138614.	1.1	41
28	Angiogenesis-promoted bone repair with silicate-shelled hydrogel fiber scaffolds. <i>Biomaterials Science</i> , 2019, 7, 5221-5231.	2.6	40
29	Multi-functional nano-adhesive releasing therapeutic ions for MMP-deactivation and remineralization. <i>Scientific Reports</i> , 2018, 8, 5663.	1.6	39
30	Mechanophysical and biological properties of a 3D-printed titanium alloy for dental applications. <i>Dental Materials</i> , 2020, 36, 945-958.	1.6	39
31	Electrospun Nanofibers Applications in Dentistry. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	1.5	37
32	Intra-articular biomaterials-assisted delivery to treat temporomandibular joint disorders. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141877651.	2.3	37
33	Uniaxial/biaxial flexure strengths and elastic properties of resin-composite block materials for CAD/CAM. <i>Dental Materials</i> , 2019, 35, 389-401.	1.6	37
34	Role of nuclear mechanosensitivity in determining cellular responses to forces and biomaterials. <i>Biomaterials</i> , 2019, 197, 60-71.	5.7	37
35	Cancer Mechanobiology: Microenvironmental Sensing and Metastasis. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3735-3752.	2.6	37
36	Antibacterial, proangiogenic, and osteopromotive nanoglass paste coordinates regenerative process following bacterial infection in hard tissue. <i>Biomaterials</i> , 2021, 268, 120593.	5.7	37

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37	Electrophoretic coatings of hydroxyapatite with various nanocrystal shapes. <i>Materials Letters</i> , 2019, 234, 148-154.	1.3	36
38	Targeting with nanoparticles for the therapeutic treatment of brain diseases. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173141989746.	2.3	34
39	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 2218-2229.	2.3	33
40	Cytotoxicity and anti-inflammatory effects of zinc ions and eugenol during setting of ZOE in immortalized human oral keratinocytes grown as three-dimensional spheroids. <i>Dental Materials</i> , 2016, 32, e93-e104.	1.6	32
41	TLR4 downregulation by the RNA-binding protein PUM1 alleviates cellular aging and osteoarthritis. <i>Cell Death and Differentiation</i> , 2022, 29, 1364-1378.	5.0	31
42	Selenium Nanoparticles as Candidates for Antibacterial Substitutes and Supplements against Multidrug-Resistant Bacteria. <i>Biomolecules</i> , 2021, 11, 1028.	1.8	30
43	Resin bonding of metal brackets to glazed zirconia with a porcelain primer. <i>Korean Journal of Orthodontics</i> , 2015, 45, 299.	0.8	29
44	Bacterial attachment on titanium surfaces is dependent on topography and chemical changes induced by nonthermal atmospheric pressure plasma. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 045015.	1.7	29
45	Performance of a glucose-reactive enzyme-based biofuel cell system for biomedical applications. <i>Scientific Reports</i> , 2019, 9, 10872.	1.6	29
46	Combined Effects of Nanoroughness and Ions Produced by Electrodeposition of Mesoporous Bioglass Nanoparticle for Bone Regeneration. <i>ACS Applied Bio Materials</i> , 2019, 2, 5190-5203.	2.3	29
47	Air atmospheric-pressure plasma-jet treatment enhances the attachment of human gingival fibroblasts for early peri-implant soft tissue seals on titanium dental implant abutments. <i>Acta Odontologica Scandinavica</i> , 2015, 73, 67-75.	0.9	28
48	Magnetic nanofiber scaffold-induced stimulation of odontogenesis and pro-angiogenesis of human dental pulp cells through Wnt/MAPK/NF- κ B pathways. <i>Dental Materials</i> , 2016, 32, 1301-1311.	1.6	27
49	Evaluation of Strontium-Doped Nanobioactive Glass Cement for Dentinâ€Pulp Complex Regeneration Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6117-6126.	2.6	27
50	Physical Properties and Biofunctionalities of Bioactive Root Canal Sealers In Vitro. <i>Nanomaterials</i> , 2020, 10, 1750.	1.9	26
51	Biological Potential of Polyethylene Glycol (PEG)-Functionalized Graphene Quantum Dots in In Vitro Neural Stem/Progenitor Cells. <i>Nanomaterials</i> , 2021, 11, 1446.	1.9	26
52	The effects of enhancing the surface energy of a polystyrene plate by air atmospheric pressure plasma jet on early attachment of fibroblast under moving incubation. <i>Thin Solid Films</i> , 2013, 547, 99-105.	0.8	25
53	Modification of TiO ₂ nanotube surfaces by electro-spray deposition of amoxicillin combined with PLGA for bactericidal effects at surgical implantation sites. <i>Acta Odontologica Scandinavica</i> , 2013, 71, 168-174.	0.9	25
54	Immunomodulatory/anti-inflammatory effect of ZOE-based dental materials. <i>Dental Materials</i> , 2017, 33, e1-e12.	1.6	24

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55	Reformulated mineral trioxide aggregate components and the assessments for use as future dental regenerative cements. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141880739.	2.3	23
56	Differential chondro- and osteo-stimulation in three-dimensional porous scaffolds with different topological surfaces provides a design strategy for biphasic osteochondral engineering. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141982643.	2.3	23
57	Evaluation of the flexural mechanical properties of various thermoplastic denture base polymers. <i>Dental Materials Journal</i> , 2018, 37, 950-956.	0.8	22
58	Ceria-incorporated MTA for accelerating odontoblastic differentiation via ROS downregulation. <i>Dental Materials</i> , 2019, 35, 1291-1299.	1.6	22
59	Three dimensional porous scaffolds derived from collagen, elastin and fibrin proteins orchestrate adipose tissue regeneration. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142110192.	2.3	20
60	Auditory disorders and future therapies with delivery systems. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141880845.	2.3	19
61	Emerging biogenesis technologies of extracellular vesicles for tissue regenerative therapeutics. <i>Journal of Tissue Engineering</i> , 2021, 12, 204173142110190.	2.3	19
62	The eggshell membrane: A potential biomaterial for corneal wound healing. <i>Journal of Biomaterials Applications</i> , 2021, 36, 912-929.	1.2	19
63	The Effect of Selenium Nanoparticles on the Osteogenic Differentiation of MC3T3-E1 Cells. <i>Nanomaterials</i> , 2021, 11, 557.	1.9	18
64	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. <i>Biomaterials</i> , 2021, 274, 120857.	5.7	18
65	Electricity auto-generating skin patch promotes wound healing process by activation of mechanosensitive ion channels. <i>Biomaterials</i> , 2021, 275, 120948.	5.7	18
66	Bioactive glass-based nanocomposites for personalized dental tissue regeneration. <i>Dental Materials Journal</i> , 2016, 35, 710-720.	0.8	17
67	Development of Bis-GMA-free biopolymer to avoid estrogenicity. <i>Dental Materials</i> , 2020, 36, 157-166.	1.6	17
68	Optimally dosed nanoceria attenuates osteoarthritic degeneration of joint cartilage and subchondral bone. <i>Chemical Engineering Journal</i> , 2021, 422, 130066.	6.6	17
69	Polymer-Ceramic Bionanocomposites for Dental Application. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	1.5	16
70	Effect of non-thermal air atmospheric pressure plasma jet treatment on gingival wound healing. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 075402.	1.3	16
71	Cell immobilization on polymer by air atmospheric pressure plasma jet treatment. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 086202.	0.8	15
72	Surface-Engineered Hybrid Gelatin Methacryloyl with Nanoceria as Reactive Oxygen Species Responsive Matrixes for Bone Therapeutics. <i>ACS Applied Bio Materials</i> , 2022, 5, 1130-1138.	2.3	15

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73	Biological and mechanical properties of an experimental glass-ionomer cement modified by partial replacement of CaO with MgO or ZnO. <i>Journal of Applied Oral Science</i> , 2015, 23, 369-375.	0.7	14
74	Titanium-Silver Alloy Miniplates for Mandibular Fixation: In Vitro and In Vivo Study. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016, 74, 1622.e1-1622.e12.	0.5	14
75	Grapefruit Seed Extract as a Natural Derived Antibacterial Substance against Multidrug-Resistant Bacteria. <i>Antibiotics</i> , 2021, 10, 85.	1.5	14
76	Development of hydrophilic dental wax without surfactant using a non-thermal air atmospheric pressure plasma jet. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 235402.	1.3	13
77	Cytotoxicity and terminal differentiation of human oral keratinocyte by indium ions from a silver-palladium-gold-indium dental alloy. <i>Dental Materials</i> , 2015, 31, 123-133.	1.6	13
78	Biological Effects of Tricalcium Silicate Nanoparticle-Containing Cement on Stem Cells from Human Exfoliated Deciduous Teeth. <i>Nanomaterials</i> , 2020, 10, 1373.	1.9	13
79	Investigating the mechanophysical and biological characteristics of therapeutic dental cement incorporating copper doped bioglass nanoparticles. <i>Dental Materials</i> , 2022, 38, 363-375.	1.6	13
80	Biomedical Application of Dental Tissue-Derived Induced Pluripotent Stem Cells. <i>Stem Cells International</i> , 2016, 2016, 1-7.	1.2	11
81	Biological Effects of Provisional Resin Materials on Human Dental Pulp Stem Cells. <i>Operative Dentistry</i> , 2017, 42, E81-E92.	0.6	10
82	Investigation of the cytotoxicity of thermoplastic denture base resins. <i>Journal of Advanced Prosthodontics</i> , 2017, 9, 453.	1.1	10
83	Evaluation of mold-enclosed shear bond strength between zirconia core and porcelain veneer. <i>Dental Materials Journal</i> , 2018, 37, 783-788.	0.8	10
84	Ceria-Incorporated Biopolymer for Preventing Fungal Adhesion. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1808-1816.	2.6	10
85	Effects of a Nonthermal Atmospheric Pressure Plasma Jet on Human Gingival Fibroblasts for Biomedical Application. <i>BioMed Research International</i> , 2016, 2016, 1-9.	0.9	9
86	Nanoscale Calcium Salt-Based Formulations As Potential Therapeutics for Osteoporosis. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4604-4613.	2.6	9
87	Cytotoxicity and proinflammatory cytokine expression induced by interim resin materials in primary cultured human dental pulp cells. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 524-534.	1.1	8
88	Zirconia-incorporated zinc oxide eugenol has improved mechanical properties and cytocompatibility with human dental pulp stem cells. <i>Dental Materials</i> , 2018, 34, 132-142.	1.6	8
89	Depth-Dependent Cellular Response from Dental Bulk-Fill Resins in Human Dental Pulp Stem Cells. <i>Stem Cells International</i> , 2019, 2019, 1-11.	1.2	7
90	A Study on Myogenesis by Regulation of Reactive Oxygen Species and Cytotoxic Activity by Selenium Nanoparticles. <i>Antioxidants</i> , 2021, 10, 1727.	2.2	7

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91	Investigating the Effects of Conditioned Media from Stem Cells of Human Exfoliated Deciduous Teeth on Dental Pulp Stem Cells. <i>Biomedicines</i> , 2022, 10, 906.	1.4	7
92	Air Atmospheric Pressure Plasma Jet Pretreatment for Drop-Wise Loading of Dexamethasone on Hydroxyapatite Scaffold for Increase of Osteoblast Attachment. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 7654-7661.	0.9	6
93	Comparison of Mechanical Properties of Chairside CAD/CAM Restorations Fabricated Using a Standardization Method. <i>Materials</i> , 2021, 14, 3115.	1.3	6
94	The effect of bonded resin surface area on the detachment force of lingual bonded fixed retainers: An in vitro study. <i>Korean Journal of Orthodontics</i> , 2014, 44, 20.	0.8	5
95	Evaluation of Light-Activated Provisional Resin Materials for Periodontal Soft Tissue Management. <i>BioMed Research International</i> , 2016, 2016, 1-10.	0.9	5
96	Mechanistic Pathways for the Molecular Step Growth of Calcium Oxalate Monohydrate Crystal Revealed by In Situ Liquid-Phase Atomic Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37873-37882.	4.0	5
97	Characterization of Physical and Biological Properties of a Caries-Arresting Liquid Containing Copper Doped Bioglass Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 1137.	2.0	5
98	On-Site Surface Functionalization for Titanium Dental Implant with Nanotopography: Review and Outlook. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	1.5	4
99	Initial Cytotoxicity of Mineral Trioxide Aggregate (MTA) during Setting on Human Mesenchymal Stem Cells. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-7.	1.0	4
100	Calcium Silicate-Based Biocompatible Light-Curable Dental Material for Dental Pulpal Complex. <i>Nanomaterials</i> , 2021, 11, 596.	1.9	4
101	Research Models of the Nanoparticle-Mediated Drug Delivery across the Blood-Brain Barrier. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 917-930.	1.6	4
102	Comparison of the Effect of Oral Versus Intravenous Bisphosphonate Administration on Osteoclastogenesis in Advanced-Stage Medication-Related Osteonecrosis of the Jaw Patients. <i>Journal of Clinical Medicine</i> , 2021, 10, 2988.	1.0	4
103	Effect of Novel Bioactive Glass-Containing Dentin Adhesive on the Permeability of Demineralized Dentin. <i>Materials</i> , 2021, 14, 5423.	1.3	4
104	Photocatalytic effect-assisted antimicrobial activities of acrylic resin incorporating zinc oxide nanoflakes. , 2022, 139, 213025.		4
105	Cytotoxicity Comparison of the Nanoparticles Deposited on Latex Rubber Bands between the Original and Stretched State. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-12.	1.5	3
106	Characterization of an anti-foaming and fast-setting gypsum for dental stone. <i>Dental Materials</i> , 2019, 35, 1728-1739.	1.6	2
107	Improvement of Biological Effects of Root-Filling Materials for Primary Teeth by Incorporating Sodium Iodide. <i>Molecules</i> , 2022, 27, 2927.	1.7	1
108	Mechanical properties and antibacterial effects of glass ionomer cement containing gallium phosphate glass (GPG). <i>Korean Journal of Dental Materials</i> , 2019, 46, 205-214.	0.2	0