

# Jong Hoon Chung

## List of Publications by Citations

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84  
papers

1,597  
citations

23  
h-index

37  
g-index

90  
ext. papers

1,855  
ext. citations

5.4  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
84	Bioactive effects of graphene oxide cell culture substratum on structure and function of human adipose-derived stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3520-30	5.4	126
83	Graphene-incorporated chitosan substrata for adhesion and differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 933-938	7.3	119
82	Designing nanotopographical density of extracellular matrix for controlled morphology and function of human mesenchymal stem cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 3552	4.9	104
81	Synergistic effects of nanotopography and co-culture with endothelial cells on osteogenesis of mesenchymal stem cells. <i>Biomaterials</i> , <b>2013</b> , 34, 7257-68	15.6	87
80	Multiscale patterned transplantable stem cell patches for bone tissue regeneration. <i>Biomaterials</i> , <b>2014</b> , 35, 9058-67	15.6	64
79	Bacterial cellulose nanofibrillar patch as a wound healing platform of tympanic membrane perforation. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1525-31	10.1	50
78	Monolayer Graphene-Directed Growth and Neuronal Differentiation of Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , <b>2015</b> , 11, 2024-33	4	43
77	Electrospun nanofibers composed of poly( $\epsilon$ -caprolactone) and polyethylenimine for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 1725-1731	8.3	43
76	Enhanced chitosan-DNA interaction by 2-acrylamido-2-methylpropane coupling for an efficient transfection in cancer cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 3465-3475	7.3	42
75	Tympanic membrane regeneration using a water-soluble chitosan patch. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 225-32	3.9	42
74	Metallic/bimetallic magnetic nanoparticle functionalization for immobilization of $\alpha$ -amylase for enhanced reusability in bio-catalytic processes. <i>Bioresource Technology</i> , <b>2016</b> , 214, 528-533	11	42
73	Bio-inspired configurable multiscale extracellular matrix-like structures for functional alignment and guided orientation of cells. <i>Biomaterials</i> , <b>2015</b> , 69, 158-64	15.6	41
72	Regeneration of chronic tympanic membrane perforation using an EGF-releasing chitosan patch. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2097-107	3.9	38
71	Triphenylamine coupled chitosan with high buffering capacity and low viscosity for enhanced transfection in mammalian cells, in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 6053-6065	7.3	37
70	Development of water-insoluble chitosan patch scaffold to repair traumatic tympanic membrane perforations. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 90, 446-55	5.4	35
69	The efficiency of membrane transport of vitamin B6 coupled to poly(ester amine) gene transporter and transfection in cancer cells. <i>Biomaterials</i> , <b>2013</b> , 34, 3716-28	15.6	31
68	Charged nanomatrices as efficient platforms for modulating cell adhesion and shape. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 913-23	2.9	31

67	Latent progenitor cells as potential regulators for tympanic membrane regeneration. <i>Scientific Reports</i> , <b>2015</b> , 5, 11542	4.9	29
66	In vitro effects of low-intensity pulsed ultrasound stimulation on the osteogenic differentiation of human alveolar bone-derived mesenchymal stem cells for tooth tissue engineering. <i>BioMed Research International</i> , <b>2013</b> , 2013, 269724	3	29
65	A healing method of tympanic membrane perforations using three-dimensional porous chitosan scaffolds. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 2763-72	3.9	28
64	Effects of electromagnetic fields on osteogenesis of human alveolar bone-derived mesenchymal stem cells. <i>BioMed Research International</i> , <b>2013</b> , 2013, 296019	3	26
63	Enhanced osteogenesis of human alveolar bone-derived mesenchymal stem cells for tooth tissue engineering using fluid shear stress in a rocking culture method. <i>Tissue Engineering - Part C: Methods</i> , <b>2013</b> , 19, 128-45	2.9	25
62	Synergistic effects of orbital shear stress on in vitro growth and osteogenic differentiation of human alveolar bone-derived mesenchymal stem cells. <i>BioMed Research International</i> , <b>2014</b> , 2014, 316803	3	24
61	Directional Matrix Nanotopography with Varied Sizes for Engineering Wound Healing. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700297	10.1	23
60	Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2069-79	10.1	23
59	Nucleotide biosynthesis arrest by silencing SHMT1 function via vitamin B6-coupled vector and effects on tumor growth inhibition. <i>Biomaterials</i> , <b>2014</b> , 35, 9332-42	15.6	22
58	Pulse frequency dependency of photobiomodulation on the bioenergetic functions of human dental pulp stem cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 15927	4.9	20
57	Calcium phosphate bioceramics fabricated from extracted human teeth for tooth tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2011</b> , 99, 399-411	3.5	19
56	Neurogenic Differentiation of Human Dental Pulp Stem Cells on Graphene-Polycaprolactone Hybrid Nanofibers. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	18
55	Biodegradable particulate delivery of vascular endothelial growth factor plasmid from polycaprolactone/polyethylenimine electrospun nanofibers for the treatment of myocardial infarction. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 7073-7	1.3	18
54	Epidermal Growth Factor-Releasing Radially Aligned Electrospun Nanofibrous Patches for the Regeneration of Chronic Tympanic Membrane Perforations. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801160	10.1	18
53	Xylanase immobilization on magnetite and magnetite core/shell nanocomposites using two different flexible alkyl length organophosphonates: Linker length and shell effect on enzyme catalytic activity. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 115, 590-599	7.9	17
52	Prevention of cisplatin-induced ototoxicity by the inhibition of gap junctional intercellular communication in auditory cells. <i>Cellular and Molecular Life Sciences</i> , <b>2014</b> , 71, 3859-71	10.3	15
51	Hypoxia promotes CEMP1 expression and induces cementoblastic differentiation of human dental stem cells in an HIF-1-dependent manner. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 410-23	3.9	14
50	Cell-Laden Thermosensitive Chitosan Hydrogel Bioinks for 3D Bioprinting Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2455	2.6	14

49	Latent stem cell-stimulating therapy for regeneration of chronic tympanic membrane perforations using IGFBP2-releasing chitosan patch scaffolds. <i>Journal of Biomaterials Applications</i> , <b>2019</b> , 34, 198-207	2.9	13
48	Engineering structures and functions of mesenchymal stem cells by suspended large-area graphene nanopatterns. <i>2D Materials</i> , <b>2016</b> , 3, 035013	5.9	13
47	Density of nanopatterned surfaces for designing bone tissue engineering scaffolds. <i>Materials Letters</i> , <b>2014</b> , 130, 227-231	3.3	13
46	Chitosan/PEI patch releasing EGF and the EGFR gene for the regeneration of the tympanic membrane after perforation. <i>Biomaterials Science</i> , <b>2018</b> , 6, 364-371	7.4	13
45	Hyperosmotic polydixylitol for crossing the blood brain barrier and efficient nucleic acid delivery. <i>Chemical Communications</i> , <b>2015</b> , 51, 3645-8	5.8	12
44	Application of ultrasound stimulation in bone tissue engineering. <i>International Journal of Stem Cells</i> , <b>2010</b> , 3, 74-9	3	12
43	Development of a bio-electrospray system for cell and non-viral gene delivery.. <i>RSC Advances</i> , <b>2018</b> , 8, 6452-6459	3.7	10
42	Histological and Mathematical Analysis of the Irreversibly Electroporated Liver Tissue. <i>Technology in Cancer Research and Treatment</i> , <b>2017</b> , 16, 488-496	2.7	8
41	Highly efficient gene transfection by a hyperosmotic polymannitol based gene transporter through regulation of caveolae and COX-2 induced endocytosis. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2666-2679	7.3	8
40	Cell Image Processing Methods for Automatic Cell Pattern Recognition and Morphological Analysis of Mesenchymal Stem Cells - An Algorithm for Cell Classification and Adaptive Brightness Correction -. <i>Journal of Biosystems Engineering</i> , <b>2013</b> , 38, 55-63	1.1	8
39	Hierarchically Micro- and Nanopatterned Topographical Cues for Modulation of Cellular Structure and Function. <i>IEEE Transactions on Nanobioscience</i> , <b>2016</b> , 15, 835-842	3.4	8
38	Effects of pulsing of light on the dentinogenesis of dental pulp stem cells in vitro. <i>Scientific Reports</i> , <b>2018</b> , 8, 2057	4.9	7
37	Physical Stimulation-Based Osteogenesis: Effect of Secretion In Vitro on Fluid Dynamic Shear Stress of Human Alveolar Bone-Derived Mesenchymal Stem Cells. <i>IEEE Transactions on Nanobioscience</i> , <b>2016</b> , 15, 881-890	3.4	7
36	3D-Printed Poly(εCaprolactone)/Hydroxyapatite Scaffolds Modified with Alkaline Hydrolysis Enhance Osteogenesis In Vitro. <i>Polymers</i> , <b>2021</b> , 13,	4.5	7
35	Effects of Actin Cytoskeleton Disruption on Electroporation In Vitro. <i>Applied Biochemistry and Biotechnology</i> , <b>2020</b> , 191, 1545-1561	3.2	6
34	Physicochemical factors that affect electroporation of lung cancer and normal cell lines. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 517, 703-708	3.4	6
33	A fully automated bioreactor system for precise control of stem cell proliferation and differentiation. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 150, 107258	4.2	6
32	Topographical extracellular matrix cues on anticancer drug-induced cytotoxicity in stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1320-7	3.5	6

31	Effects of Micro-Electrical Stimulation on Regulation of Behavior of Electro-Active Stem Cells. <i>Journal of Biosystems Engineering</i> , <b>2013</b> , 38, 113-120	1.1	6
30	Development and Characterization of Horse Bone-derived Natural Calcium Phosphate Powders. <i>Journal of Biosystems Engineering</i> , <b>2014</b> , 39, 122-133	1.1	6
29	Development and Evaluation of Natural Hydroxyapatite Ceramics Produced by the Heat Treatment of Pig Bones. <i>Journal of Biosystems Engineering</i> , <b>2014</b> , 39, 227-234	1.1	6
28	Effects of co-culture of dental pulp stem cells and periodontal ligament stem cells on assembled dual disc scaffolds. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 11, 47-58	4.5	5
27	Aligned Nanofiber-Guided Bone Regeneration Barrier Incorporated with Equine Bone-Derived Hydroxyapatite for Alveolar Bone Regeneration. <i>Polymers</i> , <b>2020</b> , 13,	4.5	5
26	Enhanced Osteogenic Differentiation of Periodontal Ligament Stem Cells Using a Graphene Oxide-Coated Poly(Ecaprolactone) Scaffold. <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
25	Development of novel gene carrier using modified nano hydroxyapatite derived from equine bone for osteogenic differentiation of dental pulp stem cells. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2742-2751	16.7	5
24	Response to "letter to the editor" written by Peter Luke Santa Maria, MBBS, PhD. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2110-1	3.9	4
23	Guided extracellular matrix formation from fibroblast cells cultured on bio-inspired configurable multiscale substrata. <i>Data in Brief</i> , <b>2015</b> , 5, 203-7	1.2	3
22	Allogeneic Fibrin Clot for Odontogenic/Cementogenic Differentiation of Human Dental Mesenchymal Stem Cells. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 17, 511-524	4.5	3
21	Evaluation of Bone Regeneration Potential of Long-Term Soaked Natural Hydroxyapatite.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5535-5543	4.1	3
20	Development and characterization of waste equine bone-derived calcium phosphate cements with human alveolar bone-derived mesenchymal stem cells. <i>Connective Tissue Research</i> , <b>2021</b> , 62, 164-175	3.3	3
19	Photobiomodulation as an antioxidant substitute in post-thawing trauma of human stem cells from the apical papilla. <i>Scientific Reports</i> , <b>2021</b> , 11, 17329	4.9	3
18	Development and characterization of fast-hardening composite cements composed of natural ceramics originated from horse bones and chitosan solution. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 11, 362-371	4.5	2
17	Design, Fabrication, and Application of a Microfluidic Device for Investigating Physical Stress-Induced Behavior in Yeast and Microalgae. <i>Journal of Biosystems Engineering</i> , <b>2014</b> , 39, 244-252	1.1	2
16	Evaluation of electroporated area using 2,3,5-triphenyltetrazolium chloride in a potato model. <i>Scientific Reports</i> , <b>2021</b> , 11, 20431	4.9	2
15	A Comparative Study on Aqueous Chitosan Solution and Various Submucosal Injection Fluids Using a Three-Dimensional Sensor. <i>Gut and Liver</i> , <b>2021</b> , 15, 217-224	4.8	2
14	Synergistic effects of hyperosmotic polymannitol based non-viral vectors and nanotopographical cues for enhanced gene delivery. <i>RSC Advances</i> , <b>2016</b> , 6, 111233-111238	3.7	2

13	Evaluation of the Osteogenic Potential of Stem Cells in the Presence of Growth Hormone under Magnetic Field Stimulation. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 4141-4154	5.5	2
12	Sulfur(VI) Fluoride Exchange (SuFEx)-Mediated Synthesis of the Chitosan-PEG Conjugate and Its Supramolecular Hydrogels for Protein Delivery. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
11	Isolation and identification of mesenchymal stem cells from human mastoid bone marrow. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 12, 195-202	4.5	1
10	JNK2 silencing and caspase-9 activation by hyperosmotic polymer inhibits tumor progression. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 120, 2215-2224	7.9	1
9	Incorporation of Reversible Electroporation Into Electrolysis Accelerates Apoptosis for Rat Liver Tissue. <i>Technology in Cancer Research and Treatment</i> , <b>2020</b> , 19, 1533033820948051	2.7	1
8	Induction of Apoptosis of Cancer Cells Using the Cisplatin Delivery Based Electrospray (CDES) System. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3203	2.6	1
7	Injectable Thermosensitive Chitosan Solution with -Glycerophosphate as an Optimal Submucosal Fluid Cushion for Endoscopic Submucosal Dissection. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
6	Stem Cell Substrates: Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells (Adv. Healthcare Mater. 16/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2144-2144	10.1	1
5	SHMT1 siRNA-Loaded hyperosmotic nanochains for blood-brain/tumor barrier post-transmigration therapy.. <i>Biomaterials</i> , <b>2021</b> , 281, 121359	15.6	0
4	Induction of Stem Cell Like Cells from Mouse Embryonic Fibroblast by Short-Term Shear Stress and Vitamin C. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1941	2.6	0
3	Reduced graphene oxide-incorporated calcium phosphate cements with pulsed electromagnetic fields for bone regeneration.. <i>RSC Advances</i> , <b>2022</b> , 12, 5557-5570	3.7	0
2	Engineering CellGraphene Interface for Controlling Stem Cell Behavior <b>2020</b> , 89-117		
1	Scaffolds for Human Dental Stem Cells to Regenerate Cementum <b>2012</b> , 161-170		