

Jong Hoon Chung

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,139
citations

172207

29
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264894

42
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all docs

90
docs citations

90
times ranked

3423
citing authors

#	ARTICLE	IF	CITATIONS
1	SHMT1 siRNA-Loaded hyperosmotic nanochains for blood-brain/tumor barrier post-transmigration therapy. <i>Biomaterials</i> , 2022, 281, 121359.	5.7	6
2	Reduced graphene oxide-incorporated calcium phosphate cements with pulsed electromagnetic fields for bone regeneration. <i>RSC Advances</i> , 2022, 12, 5557-5570.	1.7	5
3	A Machine Learning Approach for the Classification of Falls and Activities of Daily Living in Agricultural Workers. <i>IEEE Access</i> , 2022, 10, 77418-77431.	2.6	8
4	Development and characterization of waste equine bone-derived calcium phosphate cements with human alveolar bone-derived mesenchymal stem cells. <i>Connective Tissue Research</i> , 2021, 62, 164-175.	1.1	7
5	Induction of Stem Cell Like Cells from Mouse Embryonic Fibroblast by Short-Term Shear Stress and Vitamin C. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1941.	1.3	1
6	A Comparative Study on Aqueous Chitosan Solution and Various Submucosal Injection Fluids Using a Three-Dimensional Sensor. <i>Gut and Liver</i> , 2021, 15, 217-224.	1.4	2
7	Enhanced Osteogenic Differentiation of Periodontal Ligament Stem Cells Using a Graphene Oxide-Coated Poly(μ -caprolactone) Scaffold. <i>Polymers</i> , 2021, 13, 797.	2.0	17
8	Induction of Apoptosis of Cancer Cells Using the Cisplatin Delivery Based Electrospray (CDES) System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3203.	1.3	1
9	Injectable Thermosensitive Chitosan Solution with β -Glycerophosphate as an Optimal Submucosal Fluid Cushion for Endoscopic Submucosal Dissection. <i>Polymers</i> , 2021, 13, 1696.	2.0	4
10	Enhanced Osteogenesis of Dental Pulp Stem Cells In Vitro Induced by Chitosan-PEG-Incorporated Calcium Phosphate Cement. <i>Polymers</i> , 2021, 13, 2252.	2.0	6
11	Photobiomodulation as an antioxidant substitute in post-thawing trauma of human stem cells from the apical papilla. <i>Scientific Reports</i> , 2021, 11, 17329.	1.6	9
12	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> , 2021, 6, 2742-2751.	8.6	14
13	Sulfur(VI) Fluoride Exchange (SuFEx)-Mediated Synthesis of the Chitosan-PEG Conjugate and Its Supramolecular Hydrogels for Protein Delivery. <i>Nanomaterials</i> , 2021, 11, 318.	1.9	7
14	3D-Printed Poly(μ -Caprolactone)/Hydroxyapatite Scaffolds Modified with Alkaline Hydrolysis Enhance Osteogenesis In Vitro. <i>Polymers</i> , 2021, 13, 257.	2.0	24
15	Aligned Nanofiber-Guided Bone Regeneration Barrier Incorporated with Equine Bone-Derived Hydroxyapatite for Alveolar Bone Regeneration. <i>Polymers</i> , 2021, 13, 60.	2.0	14
16	Evaluation of electroporated area using 2,3,5-triphenyltetrazolium chloride in a potato model. <i>Scientific Reports</i> , 2021, 11, 20431.	1.6	10
17	Incorporation of Reversible Electroporation Into Electrolysis Accelerates Apoptosis for Rat Liver Tissue. <i>Technology in Cancer Research and Treatment</i> , 2020, 19, 153303382094805.	0.8	3
18	Human Teeth-Derived Bioceramics for Improved Bone Regeneration. <i>Nanomaterials</i> , 2020, 10, 2396.	1.9	2

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19	Effects of Actin Cytoskeleton Disruption on Electroporation In Vitro. Applied Biochemistry and Biotechnology, 2020, 191, 1545-1561.	1.4	12
20	Allogeneic Fibrin Clot for Odontogenic/Cementogenic Differentiation of Human Dental Mesenchymal Stem Cells. Tissue Engineering and Regenerative Medicine, 2020, 17, 511-524.	1.6	9
21	Evaluation of the Osteogenic Potential of Stem Cells in the Presence of Growth Hormone under Magnetic Field Stimulation. ACS Biomaterials Science and Engineering, 2020, 6, 4141-4154.	2.6	4
22	Cell-Laden Thermosensitive Chitosan Hydrogel Bioinks for 3D Bioprinting Applications. Applied Sciences (Switzerland), 2020, 10, 2455.	1.3	31
23	Engineering Cellâ€“Graphene Interface for Controlling Stem Cell Behavior. , 2020, , 89-117.		0
24	Epidermal Growth Factorâ€“Releasing Radially Aligned Electrospun Nanofibrous Patches for the Regeneration of Chronic Tympanic Membrane Perforations. Advanced Healthcare Materials, 2019, 8, e1801160.	3.9	35
25	Physicochemical factors that affect electroporation of lung cancer and normal cell lines. Biochemical and Biophysical Research Communications, 2019, 517, 703-708.	1.0	12
26	A fully automated bioreactor system for precise control of stem cell proliferation and differentiation. Biochemical Engineering Journal, 2019, 150, 107258.	1.8	14
27	Evaluation of Bone Regeneration Potential of Long-Term Soaked Natural Hydroxyapatite. ACS Applied Bio Materials, 2019, 2, 5535-5543.	2.3	5
28	Latent stem cell-stimulating therapy for regeneration of chronic tympanic membrane perforations using IGFBP2-releasing chitosan patch scaffolds. Journal of Biomaterials Applications, 2019, 34, 198-207.	1.2	15
29	Development of a bio-electrospray system for cell and non-viral gene delivery. RSC Advances, 2018, 8, 6452-6459.	1.7	12
30	Effects of pulsing of light on the dentinogenesis of dental pulp stem cells in vitro. Scientific Reports, 2018, 8, 2057.	1.6	19
31	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. International Journal of Biological Macromolecules, 2018, 115, 590-599.	3.6	24
32	Chitosan/PEI patch releasing EGF and the EGFR gene for the regeneration of the tympanic membrane after perforation. Biomaterials Science, 2018, 6, 364-371.	2.6	17
33	Neurogenic Differentiation of Human Dental Pulp Stem Cells on Graphene-Polycaprolactone Hybrid Nanofibers. Nanomaterials, 2018, 8, 554.	1.9	26
34	JNK2 silencing and caspase-9 activation by hyperosmotic polymer inhibits tumor progression. International Journal of Biological Macromolecules, 2018, 120, 2215-2224.	3.6	2
35	Histological and Mathematical Analysis of the Irreversibly Electroporated Liver Tissue. Technology in Cancer Research and Treatment, 2017, 16, 488-496.	0.8	11
36	Directional Matrix Nanotopography with Varied Sizes for Engineering Wound Healing. Advanced Healthcare Materials, 2017, 6, 1700297.	3.9	32

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37	Pulse frequency dependency of photobiomodulation on the bioenergetic functions of human dental pulp stem cells. <i>Scientific Reports</i> , 2017, 7, 15927.	1.6	35
38	<i>>Effects of Epidermal Growth Factor-Loaded Radially Oriented Nano-patterned Patch on Chronic Tympanic Membrane Perforation</i>; , 2017, , .		0
39	Pulsed Electromagnetic Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 2069-2079.	3.9	33
40	Hierarchically Micro- and Nanopatterned Topographical Cues for Modulation of Cellular Structure and Function. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 835-842.	2.2	17
41	Synergistic effects of hyperosmotic polymannitol based non-viral vectors and nanotopographical cues for enhanced gene delivery. <i>RSC Advances</i> , 2016, 6, 111233-111238.	1.7	3
42	Metallic/bimetallic magnetic nanoparticle functionalization for immobilization of α -amylase for enhanced reusability in bio-catalytic processes. <i>Bioresource Technology</i> , 2016, 214, 528-533.	4.8	53
43	Stem Cell Substrates: Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells (<i>Adv. Healthcare Mater.</i> 16/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2144-2144.	3.9	1
44	Physical Stimulation-Based Osteogenesis: Effect of Secretion <i>>In Vitro</i> on Fluid Dynamic Shear Stress of Human Alveolar Bone-Derived Mesenchymal Stem Cells. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 881-890.	2.2	9
45	Engineering structures and functions of mesenchymal stem cells by suspended large-area graphene nanopatterns. <i>2D Materials</i> , 2016, 3, 035013.	2.0	15
46	Latent progenitor cells as potential regulators for tympanic membrane regeneration. <i>Scientific Reports</i> , 2015, 5, 11542.	1.6	35
47	Topographical extracellular matrix cues on anticancer drug-induced cytotoxicity in stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1320-1327.	1.6	7
48	Enhanced chitosan-DNA interaction by 2-acrylamido-2-methylpropane coupling for an efficient transfection in cancer cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3465-3475.	2.9	50
49	Isolation and identification of mesenchymal stem cells from human mastoid bone marrow. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 195-202.	1.6	1
50	Hyperosmotic polydixylitol for crossing the blood brain barrier and efficient nucleic acid delivery. <i>Chemical Communications</i> , 2015, 51, 3645-3648.	2.2	14
51	Guided extracellular matrix formation from fibroblast cells cultured on bio-inspired configurable multiscale substrata. <i>Data in Brief</i> , 2015, 5, 203-207.	0.5	4
52	Monolayer Graphene-Directed Growth and Neuronal Differentiation of Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 2024-2033.	0.5	54
53	Bio-inspired configurable multiscale extracellular matrix-like structures for functional alignment and guided orientation of cells. <i>Biomaterials</i> , 2015, 69, 158-164.	5.7	47
54	Synergistic Effects of Orbital Shear Stress on <i>In Vitro</i> Growth and Osteogenic Differentiation of Human Alveolar Bone-Derived Mesenchymal Stem Cells. <i>BioMed Research International</i> , 2014, 2014, 1-18.	0.9	35

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55	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> , 2014, 20, 410-423.	1.6	25
56	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> , 2014, 11, 362-371.	1.6	4
57	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> , 2014, 11, 47-58.	1.6	6
58	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> , 2014, 2, 2666.	2.9	9
59	Multiscale patterned transplantable stem cell patches for bone tissue regeneration. <i>Biomaterials</i> , 2014, 35, 9058-9067.	5.7	77
60	Prevention of cisplatin-induced ototoxicity by the inhibition of gap junctional intercellular communication in auditory cells. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 3859-3871.	2.4	18
61	Nucleotide biosynthesis arrest by silencing SHMT1 function via vitamin B6-coupled vector and effects on tumor growth inhibition. <i>Biomaterials</i> , 2014, 35, 9332-9342.	5.7	34
62	Density of nanopatterned surfaces for designing bone tissue engineering scaffolds. <i>Materials Letters</i> , 2014, 130, 227-231.	1.3	18
63	Development and Characterization of Horse Bone-derived Natural Calcium Phosphate Powders. <i>Journal of Biosystems Engineering</i> , 2014, 39, 122-133.	1.2	10
64	Development and Evaluation of Natural Hydroxyapatite Ceramics Produced by the Heat Treatment of Pig Bones. <i>Journal of Biosystems Engineering</i> , 2014, 39, 227-234.	1.2	7
65	Design, Fabrication, and Application of a Microfluidic Device for Investigating Physical Stress-Induced Behavior in Yeast and Microalgae. <i>Journal of Biosystems Engineering</i> , 2014, 39, 244-252.	1.2	2
66	The efficiency of membrane transport of vitamin B6 coupled to poly(ester amine) gene transporter and transfection in cancer cells. <i>Biomaterials</i> , 2013, 34, 3716-3728.	5.7	35
67	Designing nanotopographical density of extracellular matrix for controlled morphology and function of human mesenchymal stem cells. <i>Scientific Reports</i> , 2013, 3, 3552.	1.6	129
68	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> , 2013, 1, 6053.	2.9	40
69	Synergistic effects of nanotopography and co-culture with endothelial cells on osteogenesis of mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 7257-7268.	5.7	99
70	Graphene-incorporated chitosan substrata for adhesion and differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2013, 1, 933.	2.9	144
71	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> , 2013, 101, 3520-3530.	2.1	148
72	Regeneration of Chronic Tympanic Membrane Perforation Using an EGF-Releasing Chitosan Patch. <i>Tissue Engineering - Part A</i> , 2013, 19, 2097-2107.	1.6	46

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73	Bacterial Cellulose Nanofibrillar Patch as a Wound Healing Platform of Tympanic Membrane Perforation. <i>Advanced Healthcare Materials</i> , 2013, 2, 1525-1531.	3.9	59
74	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> , 2013, 19, 128-145.	1.1	33
75	<i>In Vitro</i> 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> , 2013, 2013, 1-15.	0.9	40
76	Effects of Electromagnetic Fields on Osteogenesis of Human Alveolar Bone-Derived Mesenchymal Stem Cells. <i>BioMed Research International</i> , 2013, 2013, 1-14.	0.9	31
77	Response to "Letter to the Editor" Written by Peter Luke Santa Maria, MBBS, PhD. <i>Tissue Engineering - Part A</i> , 2013, 19, 2110-2111.	1.6	5
78	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> , 2013, 38, 55-63.	1.2	10
79	Effects of Micro-Electrical Stimulation on Regulation of Behavior of Electro-Active Stem Cells. <i>Journal of Biosystems Engineering</i> , 2013, 38, 113-120.	1.2	6
80	Charged Nanomatrices as Efficient Platforms for Modulating Cell Adhesion and Shape. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 913-923.	1.1	34
81	Scaffolds for Human Dental Stem Cells to Regenerate Cementum. , 2012, , 161-170.		0
82	A Healing Method of Tympanic Membrane Perforations Using Three-Dimensional Porous Chitosan Scaffolds. <i>Tissue Engineering - Part A</i> , 2011, 17, 2763-2772.	1.6	36
83	Calcium phosphate bioceramics fabricated from extracted human teeth for tooth tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 399-411.	1.6	26
84	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> , 2011, 11, 7073-7077.	0.9	19
85	Tympanic Membrane Regeneration Using a Water-Soluble Chitosan Patch. <i>Tissue Engineering - Part A</i> , 2010, 16, 225-232.	1.6	48
86	Application of Ultrasound Stimulation in Bone Tissue Engineering. <i>International Journal of Stem Cells</i> , 2010, 3, 74-79.	0.8	18
87	Development of water-insoluble chitosan patch scaffold to repair traumatic tympanic membrane perforations. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 446-455.	2.1	39
88	Electrospun nanofibers composed of poly(ϵ -caprolactone) and polyethylenimine for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2009, 29, 1725-1731.	3.8	51