Jun-Hyeog Jang

List of Publications by Year
in descending order

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74	2,328	293460	252626
papers	citations	24 h-index	46 g-index

75	75	75	4359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Construction and Evaluation of Recombinant Chimeric Fibrillin and Elastin Fragment in Human Mesenchymal Stem Cells. Protein and Peptide Letters, 2022, 29, 176-183.	0.4	0
2	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. Biomaterials, 2021, 274, 120857.	5.7	18
3	Bio-functionalization and in-vitro evaluation of titanium surface with recombinant fibronectin and elastin fragment in human mesenchymal stem cell. PLoS ONE, 2021, 16, e0260760.	1.1	5
4	Coating biopolymer nanofibers with carbon nanotubes accelerates tissue healing and bone regeneration through orchestrated cell- and tissue-regulatory responses. Acta Biomaterialia, 2020, 108, 97-110.	4.1	75
5	Recombinant laminin Î±5 LG1-3 domains support the stemness of human mesenchymal stem cells. Experimental and Therapeutic Medicine, 2020, 21, 166.	0.8	1
6	Behavior of Human Umbilical Vein Endothelial Cells on Titanium Surfaces Functionalized with VE-Cadherin Extracellular 1-4 Domains. Protein and Peptide Letters, 2020, 27, 895-903.	0.4	2
7	Design of fibronectin type III domains fused to an elastin-like polypeptide for the osteogenic differentiation of human mesenchymal stem cells. Acta Biochimica Et Biophysica Sinica, 2019, 51, 856-863.	0.9	9
8	A mobile health monitoring-and-treatment system based on integration of the SSN sensor ontology and the HL7 FHIR standard. BMC Medical Informatics and Decision Making, 2019, 19, 97.	1.5	57
9	Identification of new genes of pleomorphic adenoma. Medicine (United States), 2019, 98, e18468.	0.4	10
10	Evaluation of Stemness Maintenance Properties of the Recombinant Human Laminin Î±2 LG1-3 Domains in Human Mesenchymal Stem Cells. Protein and Peptide Letters, 2019, 26, 785-791.	0.4	2
11	Multifunctional Protein-Immobilized Plasma Polymer Films for Orthopedic Applications. ACS Biomaterials Science and Engineering, 2018, 4, 4084-4094.	2.6	27
12	The Osteogenic Differentiation Effect of the FN Type 10-Peptide Amphiphile on PCL Fiber. International Journal of Molecular Sciences, 2018, 19, 153.	1.8	6
13	Investigating the effect of fibulinâ€1 on the differentiation of human nasal inferior turbinateâ€derived mesenchymal stem cells into osteoblasts. Journal of Biomedical Materials Research - Part A, 2017, 105, 2291-2298.	2.1	11
14	Promoting angiogenesis with mesoporous microcarriers through a synergistic action of delivered silicon ion and VEGF. Biomaterials, 2017, 116, 145-157.	5.7	137
15	Acerogenin C from Acer nikoense exhibits a neuroprotective effect in mouse hippocampal HT22 cell lines through the upregulation of Nrf-2/HO-1 signaling pathways. Molecular Medicine Reports, 2017, 16, 1537-1543.	1.1	6
16	The herbal extract KCHO-1 exerts a neuroprotective effect by ameliorating oxidative stress via heme oxygenase-1 upregulation. Molecular Medicine Reports, 2016, 13, 4911-4919.	1.1	12
17	Fluorescenceâ€based retention assays reveals sustained release of vascular endothelial growth factor from bone grafts. Journal of Biomedical Materials Research - Part A, 2016, 104, 283-290.	2.1	7
18	Osteopromoting Reservoir of Stem Cells: Bioactive Mesoporous Nanocarrier/Collagen Gel through Slow-Releasing FGF18 and the Activated BMP Signaling. ACS Applied Materials & Interfaces, 2016, 8, 27573-27584.	4.0	35

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19	Engineering of Self-Assembled Fibronectin Matrix Protein and Its Effects on Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2015, 16, 19645-19656.	1.8	9
20	Acerogenin A from Acer nikoense Maxim Prevents Oxidative Stress-Induced Neuronal Cell Death through Nrf2-Mediated Heme Oxygenase-1 Expression in Mouse Hippocampal HT22 Cell Line. Molecules, 2015, 20, 12545-12557.	1.7	21
21	Evaluation of Sustained BMP-2 Release Profiles Using a Novel Fluorescence-Based Retention Assay. PLoS ONE, 2015, 10, e0123402.	1.1	10
22	Therapeutic-designed electrospun bone scaffolds: Mesoporous bioactive nanocarriers in hollow fiber composites to sequentially deliver dual growth factors. Acta Biomaterialia, 2015, 16, 103-116.	4.1	130
23	Design of an Osteoinductive Extracellular Fibronectin Matrix Protein for Bone Tissue Engineering. International Journal of Molecular Sciences, 2015, 16, 7672-7681.	1.8	12
24	Multifunctional and stable bone mimic proteinaceous matrix for bone tissue engineering. Biomaterials, 2015, 56, 46-57.	5.7	36
25	Nanoâ€Bioâ€Chemical Braille for Cells: The Regulation of Stem Cell Responses using Biâ€Functional Surfaces. Advanced Functional Materials, 2015, 25, 193-205.	7.8	36
26	The Cytoprotective Effect of Sulfuretin against tert-Butyl Hydroperoxide-Induced Hepatotoxicity through Nrf2/ARE and JNK/ERK MAPK-Mediated Heme Oxygenase-1 Expression. International Journal of Molecular Sciences, 2014, 15, 8863-8877.	1.8	50
27	Biointerface control of electrospun fiber scaffolds for bone regeneration: Engineered protein link to mineralized surface. Acta Biomaterialia, 2014, 10, 2750-2761.	4.1	44
28	Therapeutic foam scaffolds incorporating biopolymer-shelled mesoporous nanospheres with growth factors. Acta Biomaterialia, 2014, 10, 2612-2621.	4.1	29
29	Engineering and application of collagen-binding fibroblast growth factor 2 for sustained release. Journal of Biomedical Materials Research - Part A, 2014, 102, 1-7.	2.1	17
30	Impact of heparin-binding domain of recombinant human osteocalcin-fibronectinIII9-14 on the osteoblastic cell response. Biotechnology Letters, 2013, 35, 2213-2220.	1.1	0
31	Characterization and optimization of vascular endothelial growth factor165 (rhVEGF165) expression in Escherichia coli. Protein Expression and Purification, 2013, 87, 55-60.	0.6	9
32	Tethering bi-functional protein onto mineralized polymer scaffolds to regulate mesenchymal stem cell behaviors for bone regeneration. Journal of Materials Chemistry B, 2013, 1, 2731.	2.9	24
33	Investigating the Role of FGF18 in the Cultivation and Osteogenic Differentiation of Mesenchymal Stem Cells. PLoS ONE, 2012, 7, e43982.	1.1	30
34	The impact of immobilization of BMPâ€2 on PDO membrane for bone regeneration. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1488-1493.	2.1	12
35	Expression, Purification, and Characterization of a Dentin Phosphoprotein Produced by Escherichia coli, and Its Odontoblastic Differentiation Effects on Human Dental Pulp Cells. Protein Journal, 2012, 31, 504-510.	0.7	1
36	Fibroblast growth factor 2-functionalized collagen matrices for skeletal muscle tissue engineering. Biotechnology Letters, 2012, 34, 771-778.	1.1	20

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37	Identification and Expression Analysis of Chloroplast p-psbB Gene Differentially Expressed in Wild Ginseng. Journal of Pharmacopuncture, 2012, 15, 18-22.	0.4	2
38	Identification and Analysis of the Chloroplast rpoC1 Gene Differentially Expressed in Wild Ginseng. Journal of Pharmacopuncture, 2012, 15, 20-23.	0.4	3
39	Silica-chitosan hybrid coating on Ti for controlled release of growth factors. Journal of Materials Science: Materials in Medicine, 2011, 22, 2757-2764.	1.7	19
40	Engineering of a multi-functional extracellular matrix protein for immobilization to bone mineral hydroxyapatite. Biotechnology Letters, 2011, 33, 199-204.	1.1	10
41	Construction and expression of a recombinant fibronectinIII10 protein for integrin-mediated cell adhesion. Biotechnology Letters, 2010, 32, 29-33.	1.1	10
42	A Fibronectin Peptideâ€Coupled Biopolymer Nanofibrous Matrix to Speed Up Initial Cellular Events. Advanced Engineering Materials, 2010, 12, B94.	1.6	14
43	Fibroblast Growth Factors: Biology, Function, and Application for Tissue Regeneration. Journal of Tissue Engineering, 2010, 1, 218142.	2.3	457
44	Effects of Fibroblast Growth Factor-2 on the Expression and Regulation of Chemokines in Human Dental Pulp Cells. Journal of Endodontics, 2010, 36, 1824-1830.	1.4	71
45	Protein engineering of a fibroblast growth factor-1 fusion protein with cell adhesive activity. Acta Biochimica Et Biophysica Sinica, 2009, 41, 852-857.	0.9	2
46	In vitro/in vivo biocompatibility and mechanical properties of bioactive glass nanofiber and poly(Ìµâ€caprolactone) composite materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 213-220.	1.6	151
47	Membrane of hybrid chitosanâ€“silica xerogel for guided bone regeneration. Biomaterials, 2009, 30, 743-750.	5.7	228
48	Identification and characterization of a novel heparinâ€binding peptide for promoting osteoblast adhesion and proliferation by screening an Escherichia coli cell surface display peptide library. Journal of Peptide Science, 2009, 15, 43-47.	0.8	4
49	Protein Engineering of a Fibroblast Growth Factor 2 Protein for Targeting to Bone Mineral Hydroxyapatite. Protein and Peptide Letters, 2009, 16, 664-667.	0.4	7
50	Signaling responses of osteoblast cells to hydroxyapatite: the activation of ERK and SOX9. Journal of Bone and Mineral Metabolism, 2008, 26, 138-142.	1.3	31
51	Aberrant hypermethylation of the FGFR2 gene in human gastric cancer cell lines. Biochemical and Biophysical Research Communications, 2007, 357, 1011-1015.	1.0	12
52	Influence of RGD-containing oligopeptide-coated surface on bone formation in vitro and in vivo. Biotechnology Letters, 2007, 29, 359-363.	1.1	7
53	Recombinant expression of mouse osteocalcin protein in Escherichia coli. Biotechnology Letters, 2007, 29, 1631-1635.	1.1	9
54	Kinetic and functional analysis of the heparin-binding domain of fibronectin. Biotechnology Letters, 2007, 30, 55-59.	1.1	11

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55	Importance of the Heparin-binding Domain of Fibronectin for Enhancing Cell Adhesion Activity of the Recombinant Fibronectin. Biotechnology Letters, 2006, 28, 1409-1413.	1.1	10
56	Surface modification of polyurethane using sulfonated PEG crafted polyrotaxane for improved biocompatibility. Macromolecular Research, 2006, 14, 73-80.	1.0	23
57	The effect of the surface modification of titanium using a recombinant fragment of fibronectin and vitronectin on cell behavior. Biomaterials, 2005, 26, 5153-5157.	5.7	74
58	Improved Cellular Response of Osteoblast Cells Using Recombinant Human Osteopontin Protein Produced by Escherichia coli. Biotechnology Letters, 2005, 27, 1767-1770.	1.1	16
59	Stimulation of Human Hair Growth by the Recombinant Human Keratinocyte Growth Factor-2 (KGF-2). Biotechnology Letters, 2005, 27, 749-752.	1.1	35
60	Design and expression of oligomeric fibronectin fusion protein: a strategy for enhancing cell adhesion activity. Biotechnology Letters, 2005, 27, 811-816.	1.1	2
61	Tenascin-C promotes cell survival by activation of Akt in human chondrosarcoma cell. Cancer Letters, 2005, 229, 101-105.	3.2	25
62	FIBRONECTIN-MEDIATED ADHESION RESCUES CELL CYCLE ARREST INDUCED BY FIBROBLAST GROWTH FACTORâ€“1 BY DECREASED EXPRESSION OF P21CIP/WAF IN HUMAN CHONDROCYTES. In Vitro Cellular and Developmental Biology - Animal, 2005, 41, 126.	0.7	11
63	Biological Effects of Fibronectin Type III 10 domain on Human Osteoblast-like cells. The Journal of the Korean Academy of Periodontology, 2004, 34, 293.	0.1	0
64	Identification and Kinetics Analysis of a Novel Heparin-binding Site (KEDK) in Human Tenascin-C. Journal of Biological Chemistry, 2004, 279, 25562-25566.	1.6	13
65	Engineering and expression of a recombinant fusion protein possessing fibroblast growth factor-2 and fibronectin fragment. Biotechnology Letters, 2004, 26, 1837-1840.	1.1	7
66	Production of recombinant human tenascin-C module containing a cell adhesion recognition motif of RGD. Biotechnology Letters, 2004, 26, 1831-1835.	1.1	7
67	FIGC, a novel FGF-induced ubiquitin-protein ligase in gastric cancers. FEBS Letters, 2004, 578, 21-25.	1.3	28
68	Expression and characterization of recombinant NH2-terminal cell binding fragment of vitronectin inE.Âcoli. Biotechnology Letters, 2003, 25, 1973-1975.	1.1	2
69	Fibronectin fragment promotes osteoblast-associated gene expression and biological activity of human osteoblast-like cell. Biotechnology Letters, 2003, 25, 2007-2011.	1.1	23
70	Loss of ligand-binding specificity of fibroblast growth factor receptor 2 by RNA splicing in human chondrosarcoma cells. Cancer Letters, 2003, 191, 215-222.	3.2	6
71	Identification and Characterization of Soluble Isoform of Fibroblast Growth Factor Receptor 3 in Human SaOS-2 Osteosarcoma Cells. Biochemical and Biophysical Research Communications, 2002, 292, 378-382.	1.0	32
72	A Novel Splice Variant of Fibroblast Growth Factor Receptor 2 in Human Leukemia HL-60 Cells. Blood Cells, Molecules, and Diseases, 2002, 29, 133-137.	0.6	3

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73	Synergistic activity of fibronectin and fibroblast growth factor receptors on neuronal adhesion and neurite extension through extracellular signal-regulated kinase pathway. Biochemical and Biophysical Research Communications, 2002, 295, 898-902.	1.0	25
74	Enhanced fibronectin-mediated cell adhesion of human osteoblast by fibroblast growth factor, FGF-2. Biotechnology Letters, 2002, 24, 1659-1663.	1.1	28