Jun-Hyeog Jang

List of Publications by Year
in descending order

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74	2,328	257450	223800
papers	citations	24 h-index	46 g-index

75	75	75	3943
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fibroblast Growth Factors: Biology, Function, and Application for Tissue Regeneration. Journal of Tissue Engineering, 2010, 1, 218142.	5.5	457
2	Membrane of hybrid chitosanâ€“silica xerogel for guided bone regeneration. Biomaterials, 2009, 30, 743-750.	11.4	228
3	In vitro/in vivo biocompatibility and mechanical properties of bioactive glass nanofiber and poly(Îµâ€caprolactone) composite materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 213-220.	3.4	151
4	Promoting angiogenesis with mesoporous microcarriers through a synergistic action of delivered silicon ion and VEGF. Biomaterials, 2017, 116, 145-157.	11.4	137
5	Therapeutic-designed electrospun bone scaffolds: Mesoporous bioactive nanocarriers in hollow fiber composites to sequentially deliver dual growth factors. Acta Biomaterialia, 2015, 16, 103-116.	8.3	130
6	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.	8.3	75
7	The effect of the surface modification of titanium using a recombinant fragment of fibronectin and vitronectin on cell behavior. Biomaterials, 2005, 26, 5153-5157.	11.4	74
8	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.	3.1	71
9	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.	3.0	57
10	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.	4.1	50
11	Biointerface control of electrospun fiber scaffolds for bone regeneration: Engineered protein link to mineralized surface. Acta Biomaterialia, 2014, 10, 2750-2761.	8.3	44
12	Multifunctional and stable bone mimic proteinaceous matrix for bone tissue engineering. Biomaterials, 2015, 56, 46-57.	11.4	36
13	Nanoâ€Bioâ€Chemical Braille for Cells: The Regulation of Stem Cell Responses using Biâ€Functional Surfaces. Advanced Functional Materials, 2015, 25, 193-205.	14.9	36
14	Stimulation of Human Hair Growth by the Recombinant Human Keratinocyte Growth Factor-2 (KGF-2). Biotechnology Letters, 2005, 27, 749-752.	2.2	35
15	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.	8.0	35
16	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.	2.1	32
17	Signaling responses of osteoblast cells to hydroxyapatite: the activation of ERK and SOX9. Journal of Bone and Mineral Metabolism, 2008, 26, 138-142.	2.7	31
18	Investigating the Role of FGF18 in the Cultivation and Osteogenic Differentiation of Mesenchymal Stem Cells. PLoS ONE, 2012, 7, e43982.	2.5	30

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19	Therapeutic foam scaffolds incorporating biopolymer-shelled mesoporous nanospheres with growth factors. Acta Biomaterialia, 2014, 10, 2612-2621.	8.3	29
20	Enhanced fibronectin-mediated cell adhesion of human osteoblast by fibroblast growth factor, FGF-2. Biotechnology Letters, 2002, 24, 1659-1663.	2.2	28
21	FIGC, a novel FGF-induced ubiquitin-protein ligase in gastric cancers. FEBS Letters, 2004, 578, 21-25.	2.8	28
22	Multifunctional Protein-Immobilized Plasma Polymer Films for Orthopedic Applications. ACS Biomaterials Science and Engineering, 2018, 4, 4084-4094.	5.2	27
23	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.	2.1	25
24	Tenascin-C promotes cell survival by activation of Akt in human chondrosarcoma cell. Cancer Letters, 2005, 229, 101-105.	7.2	25
25	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.	5.8	24
26	Fibronectin fragment promotes osteoblast-associated gene expression and biological activity of human osteoblast-like cell. Biotechnology Letters, 2003, 25, 2007-2011.	2.2	23
27	Surface modification of polyurethane using sulfonated PEG crafted polyrotaxane for improved biocompatibility. Macromolecular Research, 2006, 14, 73-80.	2.4	23
28	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.	3.8	21
29	Fibroblast growth factor 2-functionalized collagen matrices for skeletal muscle tissue engineering. Biotechnology Letters, 2012, 34, 771-778.	2.2	20
30	Silica-chitosan hybrid coating on Ti for controlled release of growth factors. Journal of Materials Science: Materials in Medicine, 2011, 22, 2757-2764.	3.6	19
31	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. Biomaterials, 2021, 274, 120857.	11.4	18
32	Engineering and application of collagen-binding fibroblast growth factor 2 for sustained release. Journal of Biomedical Materials Research - Part A, 2014, 102, 1-7.	4.0	17
33	Improved Cellular Response of Osteoblast Cells Using Recombinant Human Osteopontin Protein Produced by Escherichia coli. Biotechnology Letters, 2005, 27, 1767-1770.	2.2	16
34	A Fibronectin Peptideâ€Coupled Biopolymer Nanofibrous Matrix to Speed Up Initial Cellular Events. Advanced Engineering Materials, 2010, 12, B94.	3.5	14
35	Identification and Kinetics Analysis of a Novel Heparin-binding Site (KEDK) in Human Tenascin-C. Journal of Biological Chemistry, 2004, 279, 25562-25566.	3.4	13
36	Aberrant hypermethylation of the FGFR2 gene in human gastric cancer cell lines. Biochemical and Biophysical Research Communications, 2007, 357, 1011-1015.	2.1	12

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37	The impact of immobilization of BMPâ€2 on PDO membrane for bone regeneration. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1488-1493.	4.0	12
38	Design of an Osteoinductive Extracellular Fibronectin Matrix Protein for Bone Tissue Engineering. International Journal of Molecular Sciences, 2015, 16, 7672-7681.	4.1	12
39	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.	2.4	12
40	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.	1.5	11
41	Kinetic and functional analysis of the heparin-binding domain of fibronectin. Biotechnology Letters, 2007, 30, 55-59.	2.2	11
42	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.	4.0	11
43	Importance of the Heparin-binding Domain of Fibronectin for Enhancing Cell Adhesion Activity of the Recombinant Fibronectin. Biotechnology Letters, 2006, 28, 1409-1413.	2.2	10
44	Construction and expression of a recombinant fibronectinIII10 protein for integrin-mediated cell adhesion. Biotechnology Letters, 2010, 32, 29-33.	2.2	10
45	Engineering of a multi-functional extracellular matrix protein for immobilization to bone mineral hydroxyapatite. Biotechnology Letters, 2011, 33, 199-204.	2.2	10
46	Evaluation of Sustained BMP-2 Release Profiles Using a Novel Fluorescence-Based Retention Assay. PLoS ONE, 2015, 10, e0123402.	2.5	10
47	Identification of new genes of pleomorphic adenoma. Medicine (United States), 2019, 98, e18468.	1.0	10
48	Recombinant expression of mouse osteocalcin protein in Escherichia coli. Biotechnology Letters, 2007, 29, 1631-1635.	2.2	9
49	Characterization and optimization of vascular endothelial growth factor165 (rhVEGF165) expression in Escherichia coli. Protein Expression and Purification, 2013, 87, 55-60.	1.3	9
50	Engineering of Self-Assembled Fibronectin Matrix Protein and Its Effects on Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2015, 16, 19645-19656.	4.1	9
51	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.	2.0	9
52	Engineering and expression of a recombinant fusion protein possessing fibroblast growth factor-2 and fibronectin fragment. Biotechnology Letters, 2004, 26, 1837-1840.	2.2	7
53	Production of recombinant human tenascin-C module containing a cell adhesion recognition motif of RGD. Biotechnology Letters, 2004, 26, 1831-1835.	2.2	7
54	Influence of RGD-containing oligopeptide-coated surface on bone formation in vitro and in vivo. Biotechnology Letters, 2007, 29, 359-363.	2.2	7

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55	Protein Engineering of a Fibroblast Growth Factor 2 Protein for Targeting to Bone Mineral Hydroxyapatite. Protein and Peptide Letters, 2009, 16, 664-667.	0.9	7
56	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.	4.0	7
57	Loss of ligand-binding specificity of fibroblast growth factor receptor 2 by RNA splicing in human chondrosarcoma cells. Cancer Letters, 2003, 191, 215-222.	7.2	6
58	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.	2.4	6
59	The Osteogenic Differentiation Effect of the FN Type 10-Peptide Amphiphile on PCL Fiber. International Journal of Molecular Sciences, 2018, 19, 153.	4.1	6
60	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.	2.5	5
61	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.	1.4	4
62	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.	1.4	3
63	Identification and Analysis of the Chloroplast rpoC1 Gene Differentially Expressed in Wild Ginseng. Journal of Pharmacopuncture, 2012, 15, 20-23.	1.1	3
64	Expression and characterization of recombinant NH2-terminal cell binding fragment of vitronectin inE.Âcoli. Biotechnology Letters, 2003, 25, 1973-1975.	2.2	2
65	Design and expression of oligomeric fibronectin fusion protein: a strategy for enhancing cell adhesion activity. Biotechnology Letters, 2005, 27, 811-816.	2.2	2
66	Protein engineering of a fibroblast growth factor-1 fusion protein with cell adhesive activity. Acta Biochimica Et Biophysica Sinica, 2009, 41, 852-857.	2.0	2
67	Identification and Expression Analysis of Chloroplast p-psbB Gene Differentially Expressed in Wild Ginseng. Journal of Pharmacopuncture, 2012, 15, 18-22.	1.1	2
68	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.	0.9	2
69	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.	0.9	2
70	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.	1.6	1
71	Recombinant laminin Î±5 LG1-3 domains support the stemness of human mesenchymal stem cells. Experimental and Therapeutic Medicine, 2020, 21, 166.	1.8	1
72	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

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73	Impact of heparin-binding domain of recombinant human osteocalcin-fibronectinIII9-14 on the osteoblastic cell response. Biotechnology Letters, 2013, 35, 2213-2220.	2.2	0
74	Construction and Evaluation of Recombinant Chimeric Fibrillin and Elastin Fragment in Human Mesenchymal Stem Cells. Protein and Peptide Letters, 2022, 29, 176-183.	0.9	0