Zigang Ge

List of Publications by Year
in descending order

33 papers	2,012 citations	331538 21 h-index	395590 33 g-index
33 all docs	33 docs citations	33 times ranked	3366 citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication, Mechanical Properties, and Biocompatibility of Graphene-Reinforced Chitosan Composites. Biomacromolecules, 2010, 11, 2345-2351.	2.6	514
2	Hydroxyapatiteâ€“chitin materials as potential tissue engineered bone substitutes. Biomaterials, 2004, 25, 1049-1058.	5.7	141
3	Biomaterials and scaffolds for ligament tissue engineering. Journal of Biomedical Materials Research - Part A, 2006, 77A, 639-652.	2.1	123
4	Modified hyaluronic acid hydrogels with chemical groups that facilitate adhesion to host tissues enhance cartilage regeneration. Bioactive Materials, 2021, 6, 1689-1698.	8.6	107
5	Selection of Cell Source for Ligament Tissue Engineering. Cell Transplantation, 2005, 14, 573-583.	1.2	103
6	Osteoarthritis and therapy. Arthritis and Rheumatism, 2006, 55, 493-500.	6.7	98
7	Cross-talk between TGF-beta/SMAD and integrin signaling pathways in regulating hypertrophy of mesenchymal stem cell chondrogenesis under deferral dynamic compression. Biomaterials, 2015, 38, 72-85.	5.7	96
8	Histological evaluation of osteogenesis of 3D-printed poly-lactic-co-glycolic acid (PLGA) scaffolds in a rabbit model. Biomedical Materials (Bristol), 2009, 4, 021001.	1.7	85
9	Functional biomaterials for cartilage regeneration. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2526-2536.	2.1	79
10	Improved Mesenchymal Stem Cells Attachment and<i>In Vitro</i>Cartilage Tissue Formation on Chitosan-Modified Poly(<scp>l</scp>-Lactide-<i>co</i>-Epsilon-Caprolactone) Scaffold. Tissue Engineering - Part A, 2012, 18, 242-251.	1.6	79
11	Manufacture of degradable polymeric scaffolds for bone regeneration. Biomedical Materials (Bristol), 2008, 3, 022001.	1.7	67
12	The Effects of Bone Marrow-Derived Mesenchymal Stem Cells and Fascia Wrap Application to Anterior Cruciate Ligament Tissue Engineering. Cell Transplantation, 2005, 14, 763-773.	1.2	65
13	Proliferation and Differentiation of Human Osteoblasts within 3D printed Poly-Lactic-co-Glycolic Acid Scaffolds. Journal of Biomaterials Applications, 2009, 23, 533-547.	1.2	62
14	A Viscoelastic Chitosan-Modified Three-Dimensional Porous Poly(L-Lactide-co-Îµ-Caprolactone) Scaffold for Cartilage Tissue Engineering. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 405-424.	1.9	55
15	Cells Behave Distinctly Within Sponges and Hydrogels Due to Differences of Internal Structure. Tissue Engineering - Part A, 2013, 19, 2166-2175.	1.6	37
16	The influence of scaffold microstructure on chondrogenic differentiation of mesenchymal stem cells. Biomedical Materials (Bristol), 2014, 9, 035011.	1.7	36
17	Nanosecond Pulsed Electric Fields (nsPEFs) Regulate Phenotypes of Chondrocytes through Wnt/Î²-catenin Signaling Pathway. Scientific Reports, 2014, 4, 5836.	1.6	32
18	Poly (l-lactide-co-caprolactone) scaffolds enhanced with poly (Î²-hydroxybutyrate-co-Î²-hydroxyvalerate) microspheres for cartilage regeneration. Biomedical Materials (Bristol), 2013, 8, 025005.	1.7	28

#	Article	IF	Citations
19	TGF-Î²1 affinity peptides incorporated within a chitosan sponge scaffold can significantly enhance cartilage regeneration. Journal of Materials Chemistry B, 2018, 6, 675-687.	2.9	28
20	Key considerations on the development of biodegradable biomaterials for clinical translation of medical devices: With cartilage repair products as an example. Bioactive Materials, 2022, 9, 332-342.	8.6	27
21	Nanosecond pulsed electric fields enhanced chondrogenic potential of mesenchymal stem cells via JNK/CREB-STAT3 signaling pathway. Stem Cell Research and Therapy, 2019, 10, 45.	2.4	26
22	Macroporous interpenetrating network of polyethylene glycol (PEG) and gelatin for cartilage regeneration. Biomedical Materials (Bristol), 2016, 11, 035014.	1.7	20
23	Probing cellâ€“matrix interactions in RGD-decorated macroporous poly (ethylene glycol) hydrogels for 3D chondrocyte culture. Biomedical Materials (Bristol), 2015, 10, 035016.	1.7	19
24	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. Journal of Orthopaedic Research, 2019, 37, 1387-1397.	1.2	18
25	Effects of fluctuant magnesium concentration on phenotype of the primary chondrocytes. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	2.1	13
26	A Biocompatible Chitosan Composite Containing Phosphotungstic Acid Modified Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 7126-7129.	0.9	10
27	Optimization and characterization of chemically modified polymer microspheres and their effect on cell behavior. Materials Letters, 2015, 154, 68-72.	1.3	10
28	Perspectives on Animal Models Utilized for the Research and Development of Regenerative Therapies for Articular Cartilage. Current Molecular Biology Reports, 2016, 2, 90-100.	0.8	10
29	Nanosecond pulsed electric fields prime mesenchymal stem cells to peptide ghrelin and enhance chondrogenesis and osteochondral defect repair in vivo. Science China Life Sciences, 2022, 65, 927-939.	2.3	7
30	Physically entrapped gelatin in polyethylene glycol scaffolds for three-dimensional chondrocyte culture. Journal of Bioactive and Compatible Polymers, 2016, 31, 513-530.	0.8	6
31	Multiple nanosecond pulsed electric fields stimulation with conductive poly(<scp>l</scp> â€lactic) Tj ETQq1 1 0.784314 rgBT /Overlock prolonged in vitro culture. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1136-1148.	1.3	6
32	Can Upregulation of Pluripotency Genes Enhance Stemness of Mesenchymal Stem Cells?. Stem Cell Reviews and Reports, 2021, 17, 1505-1507.	1.7	3
33	Optimization of dual effects of Mgâ€“1Ca alloys on the behavior of chondrocytes and osteoblasts in vitro. Progress in Natural Science: Materials International, 2014, 24, 433-440.	1.8	2