Wei Zhang

List of Publications by Year
in descending order

37 papers	2,141 citations	279487 23 h-index	301761 39 g-index
40 all docs	40 docs citations	40 times ranked	3306 citing authors

#	Article	IF	Citations
1	Current research on pharmacologic and regenerative therapies for osteoarthritis. Bone Research, 2016, 4, 15040.	5.4	355
2	Silk Fibroin Biomaterial Shows Safe and Effective Wound Healing in Animal Models and a Randomized Controlled Clinical Trial. Advanced Healthcare Materials, 2017, 6, 1700121.	3.9	173
3	Human Cartilage-Derived Progenitor Cells From Committed Chondrocytes for Efficient Cartilage Repair and Regeneration. Stem Cells Translational Medicine, 2016, 5, 733-744.	1.6	145
4	The use of type 1 collagen scaffold containing stromal cell-derived factor-1 to create a matrix environment conducive to partial-thickness cartilage defects repair. Biomaterials, 2013, 34, 713-723.	5.7	129
5	Silk fibroin-chondroitin sulfate scaffold with immuno-inhibition property for articular cartilage repair. Acta Biomaterialia, 2017, 63, 64-75.	4.1	124
6	Bi-layer collagen/microporous electrospun nanofiber scaffold improves the osteochondral regeneration. Acta Biomaterialia, 2013, 9, 7236-7247.	4.1	110
7	Intra-Articular Injection of Human Meniscus Stem/Progenitor Cells Promotes Meniscus Regeneration and Ameliorates Osteoarthritis Through Stromal Cell-Derived Factor-1/CXCR4-Mediated Homing. Stem Cells Translational Medicine, 2014, 3, 387-394.	1.6	86
8	Long-term effects of knitted silkâ€“collagen sponge scaffold on anterior cruciate ligament reconstruction and osteoarthritis prevention. Biomaterials, 2014, 35, 8154-8163.	5.7	84
9	The promotion of osteochondral repair by combined intra-articular injection of parathyroid hormone-related protein and implantation of a bi-layer collagen-silk scaffold. Biomaterials, 2013, 34, 6046-6057.	5.7	78
10	Emerging Trend in the Pharmacotherapy of Osteoarthritis. Frontiers in Endocrinology, 2019, 10, 431.	1.5	68
11	Copper-based biomaterials for bone and cartilage tissue engineering. Journal of Orthopaedic Translation, 2021, 29, 60-71.	1.9	57
12	Ascorbic Acid Promotes the Stemness of Corneal Epithelial Stem/Progenitor Cells and Accelerates Epithelial Wound Healing in the Cornea. Stem Cells Translational Medicine, 2017, 6, 1356-1365.	1.6	53
13	Inhibitory function of parathyroid hormone-related protein on chondrocyte hypertrophy: the implication for articular cartilage repair. Arthritis Research and Therapy, 2012, 14, 221.	1.6	52
14	An all-silk-derived functional nanosphere matrix for sequential biomolecule delivery and in situ osteochondral regeneration. Bioactive Materials, 2020, 5, 832-843.	8.6	48
15	Effects of Zinc, Magnesium, and Iron Ions on Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2022, 8, 2321-2335.	2.6	47
16	Tannic acid-mediated dual peptide-functionalized scaffolds to direct stem cell behavior and osteochondral regeneration. Chemical Engineering Journal, 2020, 396, 125232.	6.6	43
17	Neonatal Desensitization Supports Long-Term Survival and Functional Integration of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells in Rat Joint Cartilage Without Immunosuppression. Stem Cells and Development, 2013, 22, 90-101.	1.1	41
18	Surface Topography and Mechanical Strain Promote Keratocyte Phenotype and Extracellular Matrix Formation in a Biomimetic 3D Corneal Model. Advanced Healthcare Materials, 2017, 6, 1601238.	3.9	38

#	Article	IF	Citations
19	Carbon-Based Nanomaterials for Bone and Cartilage Regeneration: A Review. ACS Biomaterials Science and Engineering, 2021, 7, 4718-4735.	2.6	35
20	Physical regulation of stem cells differentiation into teno-lineage: current strategies and future direction. Cell and Tissue Research, 2015, 360, 195-207.	1.5	32
21	Enzymatically crosslinked silk-nanosilicate reinforced hydrogel with dual-lineage bioactivity for osteochondral tissue engineering. Materials Science and Engineering C, 2021, 127, 112215.	3.8	32
22	Characterization and comparison of post-natal rat Achilles tendon-derived stem cells at different development stages. Scientific Reports, 2016, 6, 22946.	1.6	30
23	Incorporation of bioactive polyvinylpyrrolidoneâ€“iodine within bilayered collagen scaffolds enhances the differentiation and subchondral osteogenesis of mesenchymal stem cells. Acta Biomaterialia, 2013, 9, 8089-8098.	4.1	28
24	Sustained Release of TPCAâ€1 from Silk Fibroin Hydrogels Preserves Keratocyte Phenotype and Promotes Corneal Regeneration by Inhibiting Interleukinâ€1 Î² Signaling. Advanced Healthcare Materials, 2020, 9, e2000591.	3.9	26
25	The Application of Mechanical Stimulations in Tendon Tissue Engineering. Stem Cells International, 2020, 2020, 1-14.	1.2	25
26	Promotion of Hernia Repair with High-Strength, Flexible, and Bioresorbable Silk Fibroin Mesh in a Large Abdominal Hernia Model. ACS Biomaterials Science and Engineering, 2018, 4, 2067-2080.	2.6	24
27	Systematic Review of Silk Scaffolds in Musculoskeletal Tissue Engineering Applications in the Recent Decade. ACS Biomaterials Science and Engineering, 2021, 7, 817-840.	2.6	23
28	Regulation of Keratocyte Phenotype and Cell Behavior by Substrate Stiffness. ACS Biomaterials Science and Engineering, 2020, 6, 5162-5171.	2.6	22
29	Multifunctional polyphenol-based silk hydrogel alleviates oxidative stress and enhances endogenous regeneration of osteochondral defects. Materials Today Bio, 2022, 14, 100251.	2.6	20
30	Mechanical stress potentiates the differentiation of periodontal ligament stem cells into keratocytes. British Journal of Ophthalmology, 2018, 102, 562-569.	2.1	18
31	Cell-Free Biomimetic Scaffold with Cartilage Extracellular Matrix-Like Architectures for In Situ Inductive Regeneration of Osteochondral Defects. ACS Biomaterials Science and Engineering, 2020, 6, 6917-6925.	2.6	18
32	The application of human periodontal ligament stem cells and biomimetic silk scaffold for in situ tendon regeneration. Stem Cell Research and Therapy, 2021, 12, 596.	2.4	18
33	Nanosilicateâ€Reinforced Silk Fibroin Hydrogel for Endogenous Regeneration of Both Cartilage and Subchondral Bone. Advanced Healthcare Materials, 2022, 11, .	3.9	17
34	Fos Promotes Early Stage Teno-Lineage Differentiation of Tendon Stem/Progenitor Cells in Tendon. Stem Cells Translational Medicine, 2017, 6, 2009-2019.	1.6	16
35	Substance P and patterned silk biomaterial stimulate periodontal ligament stem cells to form corneal stroma in a bioengineered three-dimensional model. Stem Cell Research and Therapy, 2017, 8, 260.	2.4	14
36	Clinical translation of autologous cell-based tissue engineering techniques as Class III therapeutics in China: Taking cartilage tissue engineering as an example. Journal of Orthopaedic Translation, 2014, 2, 56-65.	1.9	5

#	Article	IF	Citations
37	Advances in Regulatory Strategies of Differentiating Stem Cells towards Keratocytes. Stem Cells International, 2022, 2022, 1-11.	1.2	1