Zheng Yang

List of Publications by Year
in descending order

36 papers	1,580 citations	361413 20 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	2796 citing authors

#	Article	IF	Citations
1	Hypoxia-Conditioned Mesenchymal Stem Cells in Tissue Regeneration Application. Tissue Engineering - Part B: Reviews, 2022, 28, 966-977.	4.8	38
2	A Pre-Clinical Animal Study for Zonal Articular Cartilage Regeneration Using Stratified Implantation of Microcarrier Expanded Zonal Chondrocytes. Cartilage, 2022, 13, 194760352210930.	2.7	2
3	Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis. Acta Biomaterialia, 2021, 119, 169-183.	8.3	21
4	Electrospun fibers enhanced the paracrine signaling of mesenchymal stem cells for cartilage regeneration. Stem Cell Research and Therapy, 2021, 12, 100.	5.5	18
5	Can Upregulation of Pluripotency Genes Enhance Stemness of Mesenchymal Stem Cells?. Stem Cell Reviews and Reports, 2021, 17, 1505-1507.	3.8	3
6	Repair of Osteochondral Defects With Predifferentiated Mesenchymal Stem Cells of Distinct Phenotypic Character Derived From a Nanotopographic Platform. American Journal of Sports Medicine, 2020, 48, 1735-1747.	4.2	9
7	Improving the handling properties and longâ€term stability of polyelectrolyte complex by freezeâ€drying technique for lowâ€dose bone morphogenetic protein 2 delivery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2450-2460.	3.4	2
8	Label-free separation of mesenchymal stem cell subpopulations with distinct differentiation potencies and paracrine effects. Biomaterials, 2020, 240, 119881.	11.4	28
9	Pulsed electromagnetic fields potentiate the paracrine function of mesenchymal stem cells for cartilage regeneration. Stem Cell Research and Therapy, 2020, 11, 46.	5.5	54
10	Improved zonal chondrocyte production protocol integrating size-based inertial spiral microchannel separation and dynamic microcarrier culture for clinical application. Biomaterials, 2019, 220, 119409.	11.4	20
11	Synergistic Effect of NELL-1 and an Ultra-Low Dose of BMP-2 on Spinal Fusion. Tissue Engineering - Part A, 2019, 25, 1677-1689.	3.1	8
12	Impact of Mechanobiological Perturbation in Cartilage Tissue Engineering. , 2019, , 379-392.		2
13	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.	5.5	26
14	Bone Regeneration by Controlled Release of Bone Morphogenetic Protein-2: A Rabbit Spinal Fusion Chamber Molecular Study. Tissue Engineering - Part A, 2019, 25, 1356-1368.	3.1	4
15	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. Journal of Orthopaedic Research, 2019, 37, 1387-1397.	2.3	18
16	Characterization and application of size-sorted zonal chondrocytes for articular cartilage regeneration. Biomaterials, 2018, 165, 66-78.	11.4	33
17	Microfluidic label-free selection of mesenchymal stem cell subpopulation during culture expansion extends the chondrogenic potential in vitro. Lab on A Chip, 2018, 18, 878-889.	6.0	42
18	The effect of temporal manipulation of transforming growth factor beta 3 and fibroblast growth factor 2 on the derivation of proliferative chondrocytes from mensenchymal stem cellsâ€”A study monitored by quantitative reverse transcription polymerase chain reaction and molecular beacon based nanosensors. Journal of Biomedical Materials Research - Part A, 2018, 106, 895-904.	4.0	7

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19	Towards Standardized Stem Cell Therapy in Type 2 Diabetes Mellitus: A Systematic Review. Current Stem Cell Research and Therapy, 2018, 13, 476-488.	1.3	13
20	Enhancement of mesenchymal stem cell chondrogenesis with short-term low intensity pulsed electromagnetic fields. Scientific Reports, 2017, 7, 9421.	3.3	70
21	The Combined Effect of Substrate Stiffness and Surface Topography on Chondrogenic Differentiation of Mesenchymal Stem Cells. Tissue Engineering - Part A, 2017, 23, 43-54.	3.1	62
22	Noninvasive Monitoring of Three-Dimensional Chondrogenic Constructs Using Molecular Beacon Nanosensors. Tissue Engineering - Part C: Methods, 2017, 23, 12-20.	2.1	11
23	Cell type dependent morphological adaptation in polyelectrolyte hydrogels governs chondrogenic fate. Biomedical Materials (Bristol), 2016, 11, 025013.	3.3	8
24	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.	11.4	96
25	Substrate topography determines the fate of chondrogenesis from human mesenchymal stem cells resulting in specific cartilage phenotype formation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1507-1516.	3.3	104
26	The influence of scaffold microstructure on chondrogenic differentiation of mesenchymal stem cells. Biomedical Materials (Bristol), 2014, 9, 035011.	3.3	36
27	Engineering cell matrix interactions in assembled polyelectrolyte fiber hydrogels for mesenchymal stem cell chondrogenesis. Biomaterials, 2014, 35, 2607-2616.	11.4	51
28	Protocol of Chondrogenesis of BMSC to Chondrocyte Using Chitosan-Modified Poly(L-Lactide-co-Îµ-Caprolactone) Scaffolds. Manuals in Biomedical Research, 2014, , 49-58.	0.0	0
29	RELATIONSHIP BETWEEN CELL FUNCTION AND INITIAL CELL SEEDING DENSITY OF PRIMARY PORCINE CHONDROCYTES IN VITRO. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1340001.	0.6	6
30	Temporal Activation of Î²-Catenin Signaling in the Chondrogenic Process of Mesenchymal Stem Cells Affects the Phenotype of the Cartilage Generated. Stem Cells and Development, 2012, 21, 1966-1976.	2.1	36
31	Functional biomaterials for cartilage regeneration. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2526-2536.	4.0	79
32	Improved Mesenchymal Stem Cells Attachment andIn VitroCartilage Tissue Formation on Chitosan-Modified Poly(<scp>l</scp>-Lactide-co-Epsilon-Caprolactone) Scaffold. Tissue Engineering - Part A, 2012, 18, 242-251.	3.1	79
33	Immunohistochemical Analysis of Human Mesenchymal Stem Cells Differentiating into Chondrogenic, Osteogenic, and Adipogenic Lineages. Methods in Molecular Biology, 2011, 698, 353-366.	0.9	32
34	Cartilage Repair with Stem Cells. , 2010, , 477-502.		0
35	Stage-Dependent Effect of TGF-Î²1 on Chondrogenic Differentiation of Human Embryonic Stem Cells. Stem Cells and Development, 2009, 18, 929-940.	2.1	50
36	PDGF, TGF-Î², and FGF signaling is important for differentiation and growth of mesenchymal stem cells (MSCs): transcriptional profiling can identify markers and signaling pathways important in differentiation of MSCs into adipogenic, chondrogenic, and osteogenic lineages. Blood, 2008, 112, 295-307.	1.4	512