

Li Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

2,439
citations

201575

27
h-index

243529

44
g-index

125
all docs

125
docs citations

125
times ranked

3406
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of collagen-chondroitin sulfate-hyaluronic acid hybrid hydrogel scaffolds and cell compatibility in vitro. <i>Carbohydrate Polymers</i> , 2011, 84, 118-125.	5.1	146
2	An injectable collagen-genipin-carbon dot hydrogel combined with photodynamic therapy to enhance chondrogenesis. <i>Biomaterials</i> , 2019, 218, 119190.	5.7	131
3	In vitro expansion impaired the stemness of early passage mesenchymal stem cells for treatment of cartilage defects. <i>Cell Death and Disease</i> , 2017, 8, e2851-e2851.	2.7	105
4	Dopamine-melanin nanoparticles scavenge reactive oxygen and nitrogen species and activate autophagy for osteoarthritis therapy. <i>Nanoscale</i> , 2019, 11, 11605-11616.	2.8	103
5	Implantable and degradable antioxidant poly(μ -caprolactone)-lignin nanofiber membrane for effective osteoarthritis treatment. <i>Biomaterials</i> , 2020, 230, 119601.	5.7	100
6	Cartilage-targeting and dual MMP-13/pH responsive theranostic nanoprobe for osteoarthritis imaging and precision therapy. <i>Biomaterials</i> , 2019, 225, 119520.	5.7	92
7	Intensified Stiffness and Photodynamic Provocation in a Collagen-Based Composite Hydrogel Drive Chondrogenesis. <i>Advanced Science</i> , 2019, 6, 1900099.	5.6	80
8	Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NF- κ B signaling pathway. <i>Biomaterials</i> , 2018, 178, 281-292.	5.7	72
9	Untangling the response of bone tumor cells and bone forming cells to matrix stiffness and adhesion ligand density by means of hydrogels. <i>Biomaterials</i> , 2019, 188, 130-143.	5.7	64
10	Andrographolide protects chondrocytes from oxidative stress injury by activation of the Keap1-Nrf2-Are signaling pathway. <i>Journal of Cellular Physiology</i> , 2019, 234, 561-571.	2.0	60
11	pH-responsive and hyaluronic acid-functionalized metal-organic frameworks for therapy of osteoarthritis. <i>Journal of Nanobiotechnology</i> , 2020, 18, 139.	4.2	58
12	<i>In Vivo</i> Cartilage Engineering with Collagen Hydrogel and Allogeneous Chondrocytes After Diffusion Chamber Implantation in Immunocompetent Host. <i>Tissue Engineering - Part A</i> , 2009, 15, 2145-2153.	1.6	51
13	Evaluation of novel <i>in situ</i> synthesized nano-hydroxyapatite/collagen/alginate hydrogels for osteochondral tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 065004.	1.7	48
14	The role of Sox9 in collagen hydrogel-mediated chondrogenic differentiation of adult mesenchymal stem cells (MSCs). <i>Biomaterials Science</i> , 2018, 6, 1556-1568.	2.6	43
15	Nitric Oxide Nanosensors for Predicting the Development of Osteoarthritis in Rat Model. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25128-25137.	4.0	42
16	MMP-13 enzyme and pH responsive theranostic nanoplatform for osteoarthritis. <i>Journal of Nanobiotechnology</i> , 2020, 18, 117.	4.2	40
17	Electrospun PLGA/PCL/OCP nanofiber membranes promote osteogenic differentiation of mesenchymal stem cells (MSCs). <i>Materials Science and Engineering C</i> , 2019, 104, 109796.	3.8	39
18	Comparison of rheumatoid arthritis (RA) and osteoarthritis (OA) based on microarray profiles of human joint fibroblast-like synoviocytes. <i>Cell Biochemistry and Function</i> , 2019, 37, 31-41.	1.4	38

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19	Salidroside promotes peripheral nerve regeneration based on tissue engineering strategy using Schwann cells and PLGA: in vitro and in vivo. <i>Scientific Reports</i> , 2017, 7, 39869.	1.6	36
20	Effect of metformin on ossification and inflammation of fibroblasts in ankylosing spondylitis: An in vitro study. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 1074-1082.	1.2	34
21	Osteogenic differentiation of mesenchymal stem cells (MSCs) induced by three calcium phosphate ceramic (CaP) powders: A comparative study. <i>Materials Science and Engineering C</i> , 2017, 80, 296-300.	3.8	33
22	Andrographolide Exerts Pro-Osteogenic Effect by Activation of Wnt/ β -Catenin Signaling Pathway in Vitro. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 2327-2339.	1.1	32
23	Artemisinin Ameliorates Osteoarthritis by Inhibiting the Wnt/ β -Catenin Signaling Pathway. <i>Cellular Physiology and Biochemistry</i> , 2018, 51, 2575-2590.	1.1	31
24	Therapy for cartilage defects: functional ectopic cartilage constructed by cartilage-simulating collagen, chondroitin sulfate and hyaluronic acid (CCH) hybrid hydrogel with allogeneic chondrocytes. <i>Biomaterials Science</i> , 2018, 6, 1616-1626.	2.6	31
25	In vitro ovarian cancer model based on three-dimensional agarose hydrogel. <i>Journal of Tissue Engineering</i> , 2014, 5, 204173141352043.	2.3	28
26	Nerve growth factor from Chinese cobra venom stimulates chondrogenic differentiation of mesenchymal stem cells. <i>Cell Death and Disease</i> , 2017, 8, e2801-e2801.	2.7	28
27	miR-17-5p Regulates Heterotopic Ossification by Targeting ANKH in Ankylosing Spondylitis. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 18, 696-707.	2.3	27
28	Platelet-rich plasma promotes the regeneration of cartilage engineered by mesenchymal stem cells and collagen hydrogel via the TGF β ² /SMAD signaling pathway. <i>Journal of Cellular Physiology</i> , 2019, 234, 15627-15637.	2.0	27
29	A pH-responsive mesoporous silica nanoparticles-based drug delivery system with controlled release of andrographolide for OA treatment. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab020.	1.9	27
30	Bioconjugated Carbon Dots for Delivery of siRNA to Enhance Chondrogenesis of Mesenchymal Stem Cells by Suppression of Inflammation. <i>Stem Cells Translational Medicine</i> , 2019, 8, 724-736.	1.6	26
31	Reactive oxygen species (ROS)-responsive nanoprobe for bioimaging and targeting therapy of osteoarthritis. <i>Journal of Nanobiotechnology</i> , 2021, 19, 395.	4.2	26
32	Effect of apatite formation of biphasic calcium phosphate ceramic (BCP) on osteoblastogenesis using simulated body fluid (SBF) with or without bovine serum albumin (BSA). <i>Materials Science and Engineering C</i> , 2017, 70, 955-961.	3.8	25
33	Role of (-)-epigallocatechin-3-gallate in the osteogenic differentiation of human bone marrow mesenchymal stem cells: An enhancer or an inducer?. <i>Experimental and Therapeutic Medicine</i> , 2015, 10, 828-834.	0.8	24
34	Impact of Hydrogel Elasticity and Adherence on Osteosarcoma Cells and Osteoblasts. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801587.	3.9	23
35	Articular chondrocyte-derived extracellular vesicles promote cartilage differentiation of human umbilical cord mesenchymal stem cells by activation of autophagy. <i>Journal of Nanobiotechnology</i> , 2020, 18, 163.	4.2	23
36	Downregulation of tumor suppressor gene ribonuclease T2 and gametogenetin binding protein 2 is associated with drug resistance in ovarian cancer. <i>Oncology Reports</i> , 2014, 32, 362-372.	1.2	22

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37	Syndecanâ€4 involves in the pathogenesis of rheumatoid arthritis by regulating the inflammatory response and apoptosis of fibroblastâ€like synoviocytes. <i>Journal of Cellular Physiology</i> , 2020, 235, 1746-1758.	2.0	22
38	Proliferation-enhancing effects of gastrodin on RSC96 Schwann cells by regulating ERK1/2 and PI3K signaling pathways. <i>Biomedicine and Pharmacotherapy</i> , 2016, 84, 747-753.	2.5	21
39	Reinforcement and chemical cross-linking in collagen-based scaffolds in cartilage tissue engineering: a comparative study. <i>Iranian Polymer Journal (English Edition)</i> , 2013, 22, 833-842.	1.3	20
40	<i>In vivo</i> bioengineered ovarian tumors based on collagen, matrigel, alginate and agarose hydrogels: a comparative study. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 015016.	1.7	20
41	Andrographolide prevents human nucleus pulposus cells against degeneration by inhibiting the NFâ€B pathway. <i>Journal of Cellular Physiology</i> , 2019, 234, 9631-9639.	2.0	19
42	NECL1 coated PLGA as favorable conduits for repair of injured peripheral nerve. <i>Materials Science and Engineering C</i> , 2017, 70, 1132-1140.	3.8	18
43	Synthesis, Biological Evaluation, and Docking Studies of a Novel Sulfonamido-Based Gallate as Pro-Chondrogenic Agent for the Treatment of Cartilage. <i>Molecules</i> , 2017, 22, 3.	1.7	17
44	NIR-driven polydopamine-based nanoenzymes as ROS scavengers to suppress osteoarthritis progression. <i>Materials Today Nano</i> , 2022, 19, 100240.	2.3	16
45	Rational engineering of ferritin nanocages for targeted therapy of osteoarthritis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 28, 102210.	1.7	15
46	Pro-neurogenic effects of andrographolide on RSC96 Schwann cells in vitro. <i>Molecular Medicine Reports</i> , 2016, 14, 3573-3580.	1.1	14
47	In vitro culture expansion impairs chondrogenic differentiation and the therapeutic effect of mesenchymal stem cells by regulating the unfolded protein response. <i>Journal of Biological Engineering</i> , 2018, 12, 26.	2.0	14
48	Pulsed Magnetic Field Stimuli Can Promote Chondrogenic Differentiation of Superparamagnetic Iron Oxide Nanoparticles-Labeled Mesenchymal Stem Cells in Rats. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 2135-2145.	0.5	14
49	Salidroside enhances proliferation and maintains phenotype of articular chondrocytes for autologous chondrocyte implantation (ACI) via TGF-Î2/Smad3 Signal. <i>Biomedicine and Pharmacotherapy</i> , 2020, 122, 109388.	2.5	14
50	Chondroprotective Effects of Taurine in Primary Cultures of Human Articular Chondrocytes. <i>Tohoku Journal of Experimental Medicine</i> , 2015, 235, 201-213.	0.5	13
51	A scaffold-filter model for studying the chondrogenic differentiation of stem cells in vitro. <i>Materials Science and Engineering C</i> , 2017, 70, 962-968.	3.8	13
52	Electrospun poly(3-hydroxybutyrate-co-4-hydroxybutyrate) /Octacalcium phosphate Nanofibrous membranes for effective guided bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 112, 110763.	3.8	13
53	Harnessing Bifunctional Ferritin with Kartogenin Loading for Mesenchymal Stem Cell Capture and Enhancing Chondrogenesis in Cartilage Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101715.	3.9	12
54	Andrographolide Enhances Proliferation and Prevents Dedifferentiation of Rabbit Articular Chondrocytes: An <i>In Vitro</i> Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-10.	0.5	11

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55	Baicalin promotes the viability of Schwann cells in vitro by regulating neurotrophic factors. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 507-514.	0.8	11
56	Material-induced chondrogenic differentiation of mesenchymal stem cells is material-dependent. <i>Experimental and Therapeutic Medicine</i> , 2014, 7, 1147-1150.	0.8	10
57	Effect of epigallocatechin-3-gallate on proliferation and phenotype maintenance in rabbit articular chondrocytes in vitro. <i>Experimental and Therapeutic Medicine</i> , 2015, 9, 213-218.	0.8	10
58	Pro-neurogenic effect of Î²-asarone on RSC96 Schwann cells in vitro. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2016, 52, 278-286.	0.7	10
59	In vitro effect of a synthesized sulfonamido-based gallate on articular chondrocyte metabolism. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2497-2503.	1.0	9
60	Intra-hydrogel culture prevents transformation of mesenchymal stem cells induced by monolayer expansion. <i>Biomaterials Science</i> , 2018, 6, 1168-1176.	2.6	9
61	Comparative profiling of chondrogenic differentiation of mesenchymal stem cells (MSCs) driven by two different growth factors. <i>Cell Biochemistry and Function</i> , 2019, 37, 359-367.	1.4	9
62	A novel synthesized sulfonamido-based gallic acid " LDQN-C: Effects on chondrocytes growth and phenotype maintenance. <i>Bioorganic Chemistry</i> , 2014, 57, 99-107.	2.0	8
63	Stimulating Effect of a Novel Synthesized Sulfonamido-Based Gallate ZXHA-TC on Primary Osteoblasts. <i>Yonsei Medical Journal</i> , 2015, 56, 760.	0.9	8
64	Effect of Longan polysaccharides on proliferation and phenotype maintenance in rabbit articular chondrocytes in vitro. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 607-617.	1.6	8
65	Beneficial effects of sulfonamide-based gallates on osteoblasts in vitro. <i>Molecular Medicine Reports</i> , 2017, 15, 1149-1156.	1.1	8
66	Effect of NGF From Venom of Chinese Cobra (<i>Naja Atra</i>) on Chondrocytes Proliferation and Metabolism In Vitro. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 4308-4316.	1.2	8
67	Protective effects of baicalin on rabbit articular chondrocytes in vitro. <i>Experimental and Therapeutic Medicine</i> , 2017, 13, 1267-1274.	0.8	8
68	LiF@SiO ₂ nanocapsules for controlled lithium release and osteoarthritis treatment. <i>Nano Research</i> , 2018, 11, 5751-5760.	5.8	8
69	Carbazate modified dextrans as scavengers for carbonylated proteins. <i>Carbohydrate Polymers</i> , 2020, 232, 115802.	5.1	8
70	Injectable calcium phosphate ceramics prevent osteoclastic differentiation and osteoporotic bone loss: Potential applications for regional osteolysis. <i>Materials Science and Engineering C</i> , 2020, 110, 110691.	3.8	8
71	Effect of JEZTC, a synthetic compound, on proliferation and phenotype maintenance of rabbit articular chondrocytes in vitro. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2014, 50, 982-991.	0.7	7
72	Protocatechuic acid benefits proliferation and phenotypic maintenance of rabbit articular chondrocytes: An in vitro study. <i>Experimental and Therapeutic Medicine</i> , 2015, 9, 1865-1870.	0.8	7

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73	Chondro-Protective and Antiarthritic Effects of Sulfonamido-Based Gallateâ€”ZXHA-TC in Vitro and in Vivo. <i>ACS Chemical Biology</i> , 2016, 11, 1613-1623.	1.6	7
74	The Proliferation Enhancing Effects of Salidroside on Schwann Cells In Vitro. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-10.	0.5	7
75	Nano-hydroxyapatite/collagen film as a favorable substrate to maintain the phenotype and promote the growth of chondrocytes cultured in vitro. <i>International Journal of Molecular Medicine</i> , 2018, 41, 2150-2158.	1.8	7
76	Carbazate-modified cross-linked dextran microparticles suppress the progression of osteoarthritis by ROS scavenging. <i>Biomaterials Science</i> , 2021, 9, 6236-6250.	2.6	7
77	Three dimensional finite element analysis of a novel osteointegrated dental implant designed to reduce stress peak of cortical bone. <i>Acta of Bioengineering and Biomechanics</i> , 2014, 16, 21-8.	0.2	7
78	Effect of a novel synthesized sulfonamido-based gallate-SZNTC on chondrocytes metabolism in vitro. <i>Chemico-Biological Interactions</i> , 2014, 221, 127-138.	1.7	6
79	A Novel Synthesized Sulfonamido-Based Gallateâ€”JEZ-C as Potential Therapeutic Agents for Osteoarthritis. <i>PLoS ONE</i> , 2015, 10, e0125930.	1.1	6
80	Murine and Chinese cobra venomâ€”derived nerve growth factor stimulate chondrogenic differentiation of BMSCs in vitro: A comparative study. <i>Molecular Medicine Reports</i> , 2018, 18, 3341-3349.	1.1	6
81	Comparative Study of Collagen Hydrogels Modified in Two Ways Using the Model of Ectopic Cartilage Construction with Diffusion-chamber in Immunocompetent Host. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2014, 12, 41-47.	0.7	5
82	A Novel Synthesized Sulfonamido-Based Gallate-JEZTC Blocks Cartilage Degradation on Rabbit Model of Osteoarthritis: An in Vitro and in Vivo Study. <i>Cellular Physiology and Biochemistry</i> , 2018, 49, 2304-2319.	1.1	3
83	Stimulating Effect of a Newly Synthesized Sulfonamido-Basedgallate on Articular Chondrocytes in Vitro. <i>Cellular Physiology and Biochemistry</i> , 2015, 37, 1196-1209.	1.1	2
84	Effect of In-Situ Synthesized Nano-Hydroxyapatite/Collagen Composite Hydrogel on Osteoblasts Growth In Vitro. <i>Journal of Biomaterials and Tissue Engineering</i> , 2015, 5, 523-531.	0.0	0
85	Lignin-based Nanomaterials. <i>Sustainable Chemistry Series</i> , 2018, , 153-168.	0.1	0
86	[Corrigendum] Nanoâ€”hydroxyapatite/collagen film as a favorable substrate to maintain the phenotype and promote the growth of chondrocytes cultured in vitro. <i>International Journal of Molecular Medicine</i> , 2020, 46, 2282-2284.	1.8	0