

Wen Jie Zhang

List of Publications by Year in descending order

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109
papers

5,463
citations

76322

40
h-index

91872

69
g-index

112
all docs

112
docs citations

112
times ranked

7593
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Mesenchymal Stem Cells Derived from Bisphosphonate-Related Osteonecrosis of the Jaw Patients's™ Gingiva. Stem Cell Reviews and Reports, 2022, 18, 378-394.	3.8	4
2	Cell-Free Fat Extract Prevents Vaginal Atrophy in an Ovariectomized Model by Promoting Proliferation of Vaginal Keratinocytes and Neovascularization. Aesthetic Surgery Journal, 2022, 42, NP55-NP68.	1.6	5
3	Cell-Free Fat Extract Prevents Tail Suspension-Induced Bone Loss by Inhibiting Osteocyte Apoptosis. Frontiers in Bioengineering and Biotechnology, 2022, 10, 818572.	4.1	7
4	Cell-free fat extract attenuates osteoarthritis via chondrocytes regeneration and macrophages immunomodulation. Stem Cell Research and Therapy, 2022, 13, 133.	5.5	13
5	Synergistic effects of mechanical stimulation and crimped topography to stimulate natural collagen development for tendon engineering. Acta Biomaterialia, 2022, 145, 297-315.	8.3	6
6	Preservation of alveolar ridge height through mechanical memory: A novel dental implant design. Bioactive Materials, 2021, 6, 75-83.	15.6	8
7	Silk fibroin/poly-(L-lactide-co-caprolactone) nanofiber scaffolds loaded with Huangbai Liniment to accelerate diabetic wound healing. Colloids and Surfaces B: Biointerfaces, 2021, 199, 111557.	5.0	26
8	Adipose-derived mesenchymal stem cells from obese mice prevent body weight gain and hyperglycemia. Stem Cell Research and Therapy, 2021, 12, 277.	5.5	6
9	Rapid construction and enhanced vascularization of microtissue using a magnetic control method. Biofabrication, 2021, 13, 035040.	7.1	4
10	Marginal sealing around integral bilayer scaffolds for repairing osteochondral defects based on photocurable silk hydrogels. Bioactive Materials, 2021, 6, 3976-3986.	15.6	54
11	A rapidly magnetically assembled stem cell microtissue with "hamburger" architecture and enhanced vascularization capacity. Bioactive Materials, 2021, 6, 3756-3765.	15.6	4
12	The Translation from <i>In Vitro</i> Bioactive Ion Concentration Screening to <i>In Vivo</i> Application for Preventing Peri-implantitis. ACS Applied Materials & Interfaces, 2021, 13, 5782-5794.	8.0	15
13	A single-cell interactome of human tooth germ from growing third molar elucidates signaling networks regulating dental development. Cell and Bioscience, 2021, 11, 178.	4.8	10
14	Promoting Oral Mucosal Wound Healing with a Hydrogel Adhesive Based on a Phototriggered S-Nitrosylation Coupling Reaction. Advanced Materials, 2021, 33, e2105667.	21.0	86
15	Multifunctional Magnesium Organic Framework-Based Microneedle Patch for Accelerating Diabetic Wound Healing. ACS Nano, 2021, 15, 17842-17853.	14.6	148
16	Lip Infantile Hemangiomas Involving the Vermillion Border Have Worse Outcomes and Prognosis to Oral Propranolol Than Lesions Confined to One Side of the Vermillion. Journal of Oral and Maxillofacial Surgery, 2020, 78, 446-454.	1.2	2
17	Asiaticoside loading into polylactic-co-glycolic acid electrospun nanofibers attenuates host inflammatory response and promotes M2 macrophage polarization. Journal of Biomedical Materials Research - Part A, 2020, 108, 69-80.	4.0	19
18	Dual-modal non-invasive imaging in vitro and in vivo monitoring degradation of PLGA scaffold based gold nanoclusters. Materials Science and Engineering C, 2020, 107, 110307.	7.3	12

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19	Cell-Free Fat Extract Increases Dermal Thickness by Enhancing Angiogenesis and Extracellular Matrix Production in Nude Mice. <i>Aesthetic Surgery Journal</i> , 2020, 40, 904-913.	1.6	27
20	Asiatic Acid Glucosamine Salt Alleviates Ultraviolet B-Induced Photoaging of Human Dermal Fibroblasts and Nude Mouse Skin. <i>Photochemistry and Photobiology</i> , 2020, 96, 124-138.	2.5	13
21	In situ gas foaming based on magnesium particle degradation: A novel approach to fabricate injectable macroporous hydrogels. <i>Biomaterials</i> , 2020, 232, 119727.	11.4	74
22	Decreased Osteogenic Ability of Periodontal Ligament Stem Cells Leading to Impaired Periodontal Tissue Repair in BRONJ Patients. <i>Stem Cells and Development</i> , 2020, 29, 156-168.	2.1	9
23	<p></p>A Magnesium-Incorporated Nanoporous Titanium Coating for Rapid Osseointegration</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6593-6603.	6.7	39
24	Activation of mesenchymal stem cells promotes new bone formation within dentigerous cyst. <i>Stem Cell Research and Therapy</i> , 2020, 11, 476.	5.5	3
25	Î³-PGA hydrogel loaded with cell-free fat extract promotes the healing of diabetic wounds. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8395-8404.	5.8	44
26	Graphene oxide-coated porous titanium for pulp sealing: an antibacterial and dentino-inductive restorative material. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5606-5619.	5.8	26
27	Human amniotic mesenchymal stromal cells promote bone regeneration via activating endogenous regeneration. <i>Theranostics</i> , 2020, 10, 6216-6230.	10.0	28
28	Human umbilical cord mesenchymal stem cell-derived and dermal fibroblast-derived extracellular vesicles protect dermal fibroblasts from ultraviolet radiation-induced photoaging in vitro. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 406-414.	2.9	28
29	Extracellular vesicles from adipose-derived stem cells ameliorate ultraviolet B-induced skin photoaging by attenuating reactive oxygen species production and inflammation. <i>Stem Cell Research and Therapy</i> , 2020, 11, 264.	5.5	55
30	Cell-free fat extract promotes tissue regeneration in a tissue expansion model. <i>Stem Cell Research and Therapy</i> , 2020, 11, 50.	5.5	17
31	Cell-free fat extract accelerates diabetic wound healing in db/db mice. <i>American Journal of Translational Research (discontinued)</i> , 2020, 12, 4216-4227.	0.0	3
32	Cell-mediated delivery of VEGF modified mRNA enhances blood vessel regeneration and ameliorates murine critical limb ischemia. <i>Journal of Controlled Release</i> , 2019, 310, 103-114.	9.9	33
33	Injectable Silk Nanofiber Hydrogels for Sustained Release of Small-Molecule Drugs and Vascularization. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4077-4088.	5.2	64
34	Characterization and identification of human immortalized granulosa cells derived from ovarian follicular fluid. <i>Experimental and Therapeutic Medicine</i> , 2019, 18, 2167-2177.	1.8	14
35	Protective Effect of Fat Extract on UVB-Induced Photoaging <i>In Vitro</i> and <i>In Vivo</i>. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	38
36	CUDCâ€™907 reverses pathological phenotype of keloid fibroblasts in vitro and in vivo via dual inhibition of PI3K/Akt/mTOR signaling and HDAC2. <i>International Journal of Molecular Medicine</i> , 2019, 44, 1789-1800.	4.0	14

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37	Fat extract improves fat graft survival via proangiogenic, anti-apoptotic and pro-proliferative activities. <i>Stem Cell Research and Therapy</i> , 2019, 10, 174.	5.5	40
38	Recent advances in cell sheet technology for bone and cartilage regeneration: from preparation to application. <i>International Journal of Oral Science</i> , 2019, 11, 17.	8.6	65
39	Fat Extract Improves Random Pattern Skin Flap Survival in a Rat Model. <i>Aesthetic Surgery Journal</i> , 2019, 39, NP504-NP514.	1.6	28
40	Regeneration of trachea graft with cartilage support, vascularization, and epithelization. <i>Acta Biomaterialia</i> , 2019, 89, 206-216.	8.3	55
41	Recent Advances in Scaffold Design and Material for Vascularized Tissue-Engineered Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801433.	7.6	176
42	A hydrogel derived from acellular blood vessel extracellular matrix to promote angiogenesis. <i>Journal of Biomaterials Applications</i> , 2019, 33, 1301-1313.	2.4	14
43	Aligned topography mediated cell elongation reverses pathological phenotype of <i>in vitro</i> cultured keloid fibroblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1366-1378.	4.0	6
44	Biocompatible and Stable GO-Coated Fe ₃ O ₄ Nanocomposite: A Robust Drug Delivery Carrier for Simultaneous Tumor MR Imaging and Targeted Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2143-2154.	5.2	50
45	Nanofat Increases Dermis Thickness and Neovascularization in Photoaged Nude Mouse Skin. <i>Aesthetic Plastic Surgery</i> , 2018, 42, 343-351.	0.9	52
46	In Vitro Regeneration of Patient-specific Ear-shaped Cartilage and Its First Clinical Application for Auricular Reconstruction. <i>EBioMedicine</i> , 2018, 28, 287-302.	6.1	220
47	Co-Transplantation of Nanofat Enhances Neovascularization and Fat Graft Survival in Nude Mice. <i>Aesthetic Surgery Journal</i> , 2018, 38, 667-675.	1.6	33
48	A self-controlled study of intralesional injection of diprospan combined with topical timolol cream for treatment of thick superficial infantile hemangiomas. <i>Dermatologic Therapy</i> , 2018, 31, e12595.	1.7	8
49	Inhibition of Pathological Phenotype of Hypertrophic Scar Fibroblasts Via Coculture with Adipose-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2018, 24, 382-393.	3.1	34
50	Cell yield, chondrogenic potential, and regenerated cartilage type of chondrocytes derived from ear, nasoseptal, and costal cartilage. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1123-1132.	2.7	28
51	Fat extract promotes angiogenesis in a murine model of limb ischemia: a novel cell-free therapeutic strategy. <i>Stem Cell Research and Therapy</i> , 2018, 9, 294.	5.5	45
52	The Effects of Platelet-Derived Growth Factor-BB on Bone Marrow Stromal Cell-Mediated Vascularized Bone Regeneration. <i>Stem Cells International</i> , 2018, 2018, 1-16.	2.5	48
53	Lyophilized Scaffolds Fabricated from 3D-Printed Photocurable Natural Hydrogel for Cartilage Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31704-31715.	8.0	89
54	Early effects of parathyroid hormone on vascularized bone regeneration and implant osseointegration in aged rats. <i>Biomaterials</i> , 2018, 179, 15-28.	11.4	64

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55	Demineralized bone matrix-based microcarrier scaffold favors vascularized large bone regeneration in vivo in a rat model. <i>Journal of Biomaterials Applications</i> , 2018, 33, 182-195.	2.4	11
56	Protective effect of crocin on ultraviolet B-induced dermal fibroblast photoaging. <i>Molecular Medicine Reports</i> , 2018, 18, 1439-1446.	2.4	21
57	Effects of Sr-HT-Gahnite on osteogenesis and angiogenesis by adipose derived stem cells for critical-sized calvarial defect repair. <i>Scientific Reports</i> , 2017, 7, 41135.	3.3	32
58	Hyaluronic Acid Coating Enhances Biocompatibility of Nonwoven PGA Scaffold and Cartilage Formation. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 86-97.	2.1	34
59	Repair of osteochondral defects with in vitro engineered cartilage based on autologous bone marrow stromal cells in a swine model. <i>Scientific Reports</i> , 2017, 7, 40489.	3.3	42
60	Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5149-5157.	8.0	57
61	Characterization of Smad3 knockout mouse derived skin cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017, 53, 458-466.	1.5	3
62	Cellular Internalization of Rod-Like Nanoparticles with Various Surface Patterns: Novel Entry Pathway and Controllable Uptake Capacity. <i>Small</i> , 2017, 13, 1604214.	10.0	32
63	3D-printed scaffolds with synergistic effect of hollow-pipe structure and bioactive ions for vascularized bone regeneration. <i>Biomaterials</i> , 2017, 135, 85-95.	11.4	171
64	Increased stem cells delivered using a silk gel/scaffold complex for enhanced bone regeneration. <i>Scientific Reports</i> , 2017, 7, 2175.	3.3	19
65	Extracellular Vesicle-functionalized Decalcified Bone Matrix Scaffolds with Enhanced Pro-angiogenic and Pro-bone Regeneration Activities. <i>Scientific Reports</i> , 2017, 7, 45622.	3.3	113
66	Stable subcutaneous cartilage regeneration of bone marrow stromal cells directed by chondrocyte sheet. <i>Acta Biomaterialia</i> , 2017, 54, 321-332.	8.3	41
67	Conditional tenomodulin overexpression favors tenogenic lineage differentiation of transgenic mouse derived cells. <i>Gene</i> , 2017, 598, 9-19.	2.2	14
68	Magnetically Controlled Growth Factor Immobilized Multilayer Cell Sheets for Complex Tissue Regeneration. <i>Advanced Materials</i> , 2017, 29, 1703795.	21.0	94
69	Growth differentiation factor 15 promotes blood vessel growth by stimulating cell cycle progression in repair of critical-sized calvarial defect. <i>Scientific Reports</i> , 2017, 7, 9027.	3.3	26
70	Bone marrow mesenchymal stem cell-derived extracellular vesicles improve the survival of transplanted fat grafts. <i>Molecular Medicine Reports</i> , 2017, 16, 3069-3078.	2.4	13
71	Improvement of In Vitro Three-Dimensional Cartilage Regeneration by a Novel Hydrostatic Pressure Bioreactor. <i>Stem Cells Translational Medicine</i> , 2017, 6, 982-991.	3.3	36
72	pH-sensitive Au–BSA–DOX–FA nanocomposites for combined CT imaging and targeted drug delivery. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2829-2843.	6.7	50

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73	Inhibitory effect of TGF- β 2 peptide antagonist on the fibrotic phenotype of human hypertrophic scar fibroblasts. <i>Pharmaceutical Biology</i> , 2016, 54, 1-9.	2.9	21
74	Real-time and long-time in vivo imaging in the shortwave infrared window of perforator vessels for more precise evaluation of flap perfusion. <i>Biomaterials</i> , 2016, 103, 256-264.	11.4	25
75	Knockdown of GGCT inhibits cell proliferation and induces late apoptosis in human gastric cancer. <i>BMC Biochemistry</i> , 2016, 17, 19.	4.4	21
76	Aligned nanofibers direct human dermal fibroblasts to tenogenic phenotype <i>in vitro</i> and enhance tendon regeneration <i>in vivo</i> . <i>Nanomedicine</i> , 2016, 11, 1055-1072.	3.3	52
77	Label-Free 3D Ag Nanoflower-Based Electrochemical Immunosensor for the Detection of Escherichia coli O157:H7 Pathogens. <i>Nanoscale Research Letters</i> , 2016, 11, 507.	5.7	44
78	Surface thermal oxidation on titanium implants to enhance osteogenic activity and in vivo osseointegration. <i>Scientific Reports</i> , 2016, 6, 31769.	3.3	112
79	Sorafenib exerts an anti-keeloid activity by antagonizing TGF- β 2/Smad and MAPK/ERK signaling pathways. <i>Journal of Molecular Medicine</i> , 2016, 94, 1181-1194.	3.9	46
80	Human Stem Cells Overexpressing miR-21 Promote Angiogenesis in Critical Limb Ischemia by Targeting CHIP to Enhance HIF-1 α Activity. <i>Stem Cells</i> , 2016, 34, 924-934.	3.2	36
81	Peri-Implant Bone Regeneration Using α rhPDGF β 2, α BMSCs, and α 2 β 1TCP in a Canine Model. <i>Clinical Implant Dentistry and Related Research</i> , 2016, 18, 241-252.	3.7	25
82	Enhanced Osseointegration of Hierarchical Micro/Nanotopographic Titanium Fabricated by Microarc Oxidation and Electrochemical Treatment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3840-3852.	8.0	129
83	A strontium-incorporated nanoporous titanium implant surface for rapid osseointegration. <i>Nanoscale</i> , 2016, 8, 5291-5301.	5.6	128
84	Induction of predominant tenogenic phenotype in human dermal fibroblasts via synergistic effect of TGF- β 2 and elongated cell shape. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C357-C372.	4.6	31
85	Development of an angiogenesis-promoting microvesicle-alginate-polycaprolactone composite graft for bone tissue engineering applications. <i>PeerJ</i> , 2016, 4, e2040.	2.0	43
86	Comprehensive Evaluation of Cryopreserved Bone-Derived Osteoblasts for the Repair of Segmental Mandibular Defects in Canines. <i>Clinical Implant Dentistry and Related Research</i> , 2015, 17, 798-810.	3.7	7
87	Corneal Stroma Regeneration with Acellular Corneal Stroma Sheets and Keratocytes in a Rabbit Model. <i>PLoS ONE</i> , 2015, 10, e0132705.	2.5	23
88	The Treatment Efficacy of Bone Tissue Engineering Strategy for Repairing Segmental Bone Defects Under Osteoporotic Conditions. <i>Tissue Engineering - Part A</i> , 2015, 21, 2346-2355.	3.1	48
89	Retention of the Stemness of Mouse Adipose-Derived Stem Cells by Their Expansion on Human Bone Marrow Stromal Cell-Derived Extracellular Matrix. <i>Tissue Engineering - Part A</i> , 2015, 21, 1886-1894.	3.1	32
90	Vascularization of hollow channel-modified porous silk scaffolds with endothelial cells for tissue regeneration. <i>Biomaterials</i> , 2015, 56, 68-77.	11.4	132

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91	Porous Silk Scaffolds for Delivery of Growth Factors and Stem Cells to Enhance Bone Regeneration. PLoS ONE, 2014, 9, e102371.	2.5	61
92	Prevention of Liver Fibrosis by Intrasplenic Injection of High-Density Cultured Bone Marrow Cells in a Rat Chronic Liver Injury Model. PLoS ONE, 2014, 9, e103603.	2.5	13
93	Expansion of Endothelial Progenitor Cells in High Density Dot Culture of Rat Bone Marrow Cells. PLoS ONE, 2014, 9, e107127.	2.5	8
94	Magnesium ion implantation on a micro/nanostructured titanium surface promotes its bioactivity and osteogenic differentiation function. International Journal of Nanomedicine, 2014, 9, 2387.	6.7	63
95	Vacuum extraction enhances rhPDGF-BB immobilization on nanotubes to improve implant osseointegration in ovariectomized rats. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1809-1818.	3.3	38
96	Chondrogenic differentiation and three dimensional chondrogenesis of human adipose-derived stem cells induced by engineered cartilage-derived conditional media. Tissue Engineering and Regenerative Medicine, 2014, 11, 59-66.	3.7	5
97	Regeneration of human-ear-shaped cartilage by co-culturing human microtia chondrocytes with BMSCs. Biomaterials, 2014, 35, 4878-4887.	11.4	110
98	Repair of Achilles tendon defect with autologous ASCs engineered tendon in a rabbit model. Biomaterials, 2014, 35, 8801-8809.	11.4	99
99	Endoscopic lift of the maxillary sinus floor in beagles. British Journal of Oral and Maxillofacial Surgery, 2014, 52, 845-849.	0.8	4
100	Systematic modification and evaluation of a canine model for elevation of the floor of the maxillary sinus. British Journal of Oral and Maxillofacial Surgery, 2014, 52, 784-788.	0.8	1
101	Stimulation of bone growth following zinc incorporation into biomaterials. Biomaterials, 2014, 35, 6882-6897.	11.4	241
102	The synergistic effect of hierarchical micro/nano-topography and bioactive ions for enhanced osseointegration. Biomaterials, 2013, 34, 3184-3195.	11.4	282
103	Effects of a hybrid micro/nanorod topography-modified titanium implant on adhesion and osteogenic differentiation in rat bone marrow mesenchymal stem cells. International Journal of Nanomedicine, 2013, 8, 257.	6.7	70
104	Biofunctionalization of a titanium surface with a nano-sawtooth structure regulates the behavior of rat bone marrow mesenchymal stem cells. International Journal of Nanomedicine, 2012, 7, 4459.	6.7	64
105	The use of injectable sonication-induced silk hydrogel for VEGF165 and BMP-2 delivery for elevation of the maxillary sinus floor. Biomaterials, 2011, 32, 9415-9424.	11.4	255
106	Mouse out root sheath cells cultured on E-cadherin-coated dishes exhibit neuronal cell morphology. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 816-822.	1.5	1
107	Clonal analysis of nestin+ vimentin+ multipotent fibroblasts isolated from human dermis. Journal of Cell Science, 2007, 120, 2875-2883.	2.0	189
108	Tissue engineering of blood vessel. Journal of Cellular and Molecular Medicine, 2007, 11, 945-957.	3.6	175

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109	Cell-Free Fat Extract Improves Ovarian Function and Fertility in Mice With Advanced Age. Frontiers in Endocrinology, 0, 13, .	3.5	4