

Jian-Wu Dai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4014019/publications.pdf>

Version: 2024-02-01

197
papers

9,400
citations

28272

55
h-index

56717

83
g-index

207
all docs

207
docs citations

207
times ranked

10225
citing authors

#	ARTICLE	IF	CITATIONS
1	The inÂvitro and inÂvivo toxicity of graphene quantum dots. <i>Biomaterials</i> , 2014, 35, 5041-5048.	11.4	437
2	Enhanced Proliferation and Osteogenic Differentiation of Mesenchymal Stem Cells on Graphene Oxide-Incorporated Electrospun Poly(lactic-<i>co</i>-glycolic acid) Nanofibrous Mats. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6331-6339.	8.0	285
3	Transplantation of bone marrow mesenchymal stem cells on collagen scaffolds for the functional regeneration of injured rat uterus. <i>Biomaterials</i> , 2014, 35, 4888-4900.	11.4	182
4	Homogeneous osteogenesis and bone regeneration by demineralized bone matrix loading with collagen-targeting bone morphogenetic protein-2. <i>Biomaterials</i> , 2007, 28, 1027-1035.	11.4	163
5	Allogeneic cell therapy using umbilical cord MSCs on collagen scaffolds for patients with recurrent uterine adhesion: a phase I clinical trial. <i>Stem Cell Research and Therapy</i> , 2018, 9, 192.	5.5	157
6	Transplantation of human mesenchymal stem cells loaded on collagen scaffolds for the treatment of traumatic brain injury in rats. <i>Biomaterials</i> , 2013, 34, 5937-5946.	11.4	138
7	Regeneration of uterine horns in rats by collagen scaffolds loaded with collagen-binding human basic fibroblast growth factor. <i>Biomaterials</i> , 2011, 32, 8172-8181.	11.4	131
8	Myocardialâ€infrarctionâ€Responsive Smart Hydrogels Targeting Matrix Metalloproteinase for Onâ€Demand Growth Factor Delivery. <i>Advanced Materials</i> , 2019, 31, e1902900.	21.0	128
9	Clinical Study of NeuroRegen Scaffold Combined with Human Mesenchymal Stem Cells for the Repair of Chronic Complete Spinal Cord Injury. <i>Cell Transplantation</i> , 2017, 26, 891-900.	2.5	127
10	Linear Ordered Collagen Scaffolds Loaded with Collagen-Binding Brain-Derived Neurotrophic Factor Improve the Recovery of Spinal Cord Injury in Rats. <i>Tissue Engineering - Part A</i> , 2009, 15, 2927-2935.	3.1	126
11	The promotion of neural regeneration in an extreme rat spinal cord injury model using a collagen scaffold containing a collagen binding neuroprotective protein and an EGFR neutralizing antibody. <i>Biomaterials</i> , 2010, 31, 9212-9220.	11.4	123
12	The use of laminin modified linear ordered collagen scaffolds loaded with laminin-binding ciliary neurotrophic factor for sciatic nerve regeneration in rats. <i>Biomaterials</i> , 2011, 32, 3939-3948.	11.4	123
13	The linear-ordered collagen scaffold-BDNF complex significantly promotes functional recovery after completely transected spinal cord injury in canine. <i>Biomaterials</i> , 2015, 41, 89-96.	11.4	123
14	3D bioprinted neural tissue constructs for spinal cord injury repair. <i>Biomaterials</i> , 2021, 272, 120771.	11.4	121
15	A collagen microchannel scaffold carrying paclitaxel-liposomes induces neuronal differentiation of neural stem cells through Wnt/Î²-catenin signaling for spinal cord injury repair. <i>Biomaterials</i> , 2018, 183, 114-127.	11.4	118
16	Significant Improvement of Acute Complete Spinal Cord Injury Patients Diagnosed by a Combined Criteria Implanted with NeuroRegen Scaffolds and Mesenchymal Stem Cells. <i>Cell Transplantation</i> , 2018, 27, 907-915.	2.5	118
17	A modified collagen scaffold facilitates endogenous neurogenesis for acute spinal cord injury repair. <i>Acta Biomaterialia</i> , 2017, 51, 304-316.	8.3	117
18	The effect of collagen-binding NGF-Î² on the promotion of sciatic nerve regeneration in a rat sciatic nerve crush injury model. <i>Biomaterials</i> , 2009, 30, 4649-4656.	11.4	116

#	ARTICLE	IF	CITATIONS
19	Collagen-Targeting Vascular Endothelial Growth Factor Improves Cardiac Performance After Myocardial Infarction. <i>Circulation</i> , 2009, 119, 1776-1784.	1.6	115
20	Transplantation of UC-MSCs on collagen scaffold activates follicles in dormant ovaries of POF patients with long history of infertility. <i>Science China Life Sciences</i> , 2018, 61, 1554-1565.	4.9	114
21	Moldable Hyaluronan Hydrogel Enabled by Dynamic Metal-Bisphosphonate Coordination Chemistry for Wound Healing. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700973.	7.6	110
22	Cetuximab modified collagen scaffold directs neurogenesis of injury-activated endogenous neural stem cells for acute spinal cord injury repair. <i>Biomaterials</i> , 2017, 137, 73-86.	11.4	106
23	Promotion of neuronal differentiation of neural progenitor cells by using EGFR antibody functionalized collagen scaffolds for spinal cord injury repair. <i>Biomaterials</i> , 2013, 34, 5107-5116.	11.4	104
24	Stem-cell-capturing collagen scaffold promotes cardiac tissue regeneration. <i>Biomaterials</i> , 2011, 32, 2508-2515.	11.4	102
25	Umbilical cord-derived mesenchymal stem cells on scaffolds facilitate collagen degradation via upregulation of MMP-9 in rat uterine scars. <i>Stem Cell Research and Therapy</i> , 2017, 8, 84.	5.5	101
26	Transplantation of adipose-derived stem cells combined with collagen scaffolds restores ovarian function in a rat model of premature ovarian insufficiency. <i>Human Reproduction</i> , 2016, 31, 1075-1086.	0.9	100
27	Mammalian target of rapamycin (mTOR) is involved in the neuronal differentiation of neural progenitors induced by insulin. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 118-124.	2.2	97
28	One-year clinical study of NeuroRegen scaffold implantation following scar resection in complete chronic spinal cord injury patients. <i>Science China Life Sciences</i> , 2016, 59, 647-655.	4.9	90
29	Nogo-66 Promotes the Differentiation of Neural Progenitors into Astroglial Lineage Cells through mTOR-STAT3 Pathway. <i>PLoS ONE</i> , 2008, 3, e1856.	2.5	89
30	BMSCs-laden gelatin/sodium alginate/carboxymethyl chitosan hydrogel for 3D bioprinting. <i>RSC Advances</i> , 2016, 6, 108423-108430.	3.6	84
31	Scaffold-facilitated locomotor improvement post complete spinal cord injury: Motor axon regeneration versus endogenous neuronal relay formation. <i>Biomaterials</i> , 2019, 197, 20-31.	11.4	82
32	Small molecules combined with collagen hydrogel direct neurogenesis and migration of neural stem cells after spinal cord injury. <i>Biomaterials</i> , 2021, 269, 120479.	11.4	82
33	Radially Aligned Electrospun Fibers with Continuous Gradient of SDF1 β for the Guidance of Neural Stem Cells. <i>Small</i> , 2016, 12, 5009-5018.	10.0	81
34	A novel hydrogel-based treatment for complete transection spinal cord injury repair is driven by microglia/macrophages repopulation. <i>Biomaterials</i> , 2020, 237, 119830.	11.4	77
35	Functionalized Collagen Scaffold Neutralizing the Myelin-Inhibitory Molecules Promoted Neurites Outgrowth in Vitro and Facilitated Spinal Cord Regeneration in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13960-13971.	8.0	76
36	Collagen scaffolds modified with CNTF and bFGF promote facial nerve regeneration in minipigs. <i>Biomaterials</i> , 2014, 35, 7819-7827.	11.4	74

#	ARTICLE	IF	CITATIONS
37	Novel nerve guidance material prepared from bovine aponeurosis. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 591-598.	4.0	73
38	Linear Ordered Collagen Scaffolds Loaded with Collagen-Binding Neurotrophin-3 Promote Axonal Regeneration and Partial Functional Recovery after Complete Spinal Cord Transection. <i>Journal of Neurotrauma</i> , 2010, 27, 1671-1683.	3.4	73
39	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. <i>Biomaterials</i> , 2022, 280, 121279.	11.4	73
40	Functional Multichannel Poly(Propylene Fumarate)-Collagen Scaffold with Collagen-Binding Neurotrophic Factor 3 Promotes Neural Regeneration After Transected Spinal Cord Injury. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800315.	7.6	71
41	Vascularization and cellularization of collagen scaffolds incorporated with two different collagen-targeting human basic fibroblast growth factors. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 630-636.	4.0	69
42	Induction of rat facial nerve regeneration by functional collagen scaffolds. <i>Biomaterials</i> , 2013, 34, 1302-1310.	11.4	67
43	Transplantation of collagen scaffold with autologous bone marrow mononuclear cells promotes functional endometrium reconstruction via downregulating β -catenin expression in Asherman's syndrome. <i>Science China Life Sciences</i> , 2017, 60, 404-416.	4.9	67
44	Regeneration of full-thickness abdominal wall defects in rats using collagen scaffolds loaded with collagen-binding basic fibroblast growth factor. <i>Biomaterials</i> , 2011, 32, 753-759.	11.4	64
45	A three-dimensional collagen scaffold cell culture system for screening anti-glioma therapeutics. <i>Oncotarget</i> , 2016, 7, 56904-56914.	1.8	64
46	Human placenta-derived mesenchymal stem cells loaded on linear ordered collagen scaffold improves functional recovery after completely transected spinal cord injury in canine. <i>Science China Life Sciences</i> , 2018, 61, 2-13.	4.9	64
47	MiR-125b orchestrates cell proliferation, differentiation and migration in neural stem/progenitor cells by targeting Nestin. <i>BMC Neuroscience</i> , 2012, 13, 116.	1.9	63
48	A functional scaffold to promote the migration and neuronal differentiation of neural stem/progenitor cells for spinal cord injury repair. <i>Biomaterials</i> , 2020, 243, 119941.	11.4	63
49	Acceleration of diabetic wound healing by collagen-binding vascular endothelial growth factor in diabetic rat model. <i>Diabetes Research and Clinical Practice</i> , 2010, 90, 66-72.	2.8	62
50	Paracrine factors from mesenchymal stem cells attenuate epithelial injury and lung fibrosis. <i>Molecular Medicine Reports</i> , 2015, 11, 2831-2837.	2.4	61
51	Functionalized collagen scaffold implantation and cAMP administration collectively facilitate spinal cord regeneration. <i>Acta Biomaterialia</i> , 2016, 30, 233-245.	8.3	61
52	Transplantation of hUC-MSCs seeded collagen scaffolds reduces scar formation and promotes functional recovery in canines with chronic spinal cord injury. <i>Scientific Reports</i> , 2017, 7, 43559.	3.3	61
53	LncRNA Neat1 mediates miR-124-induced activation of Wnt/ β -catenin signaling in spinal cord neural progenitor cells. <i>Stem Cell Research and Therapy</i> , 2019, 10, 400.	5.5	60
54	The Three-Dimensional Collagen Scaffold Improves the Stemness of Rat Bone Marrow Mesenchymal Stem Cells. <i>Journal of Genetics and Genomics</i> , 2012, 39, 633-641.	3.9	59

#	ARTICLE	IF	CITATIONS
55	Controlled release of collagen-binding SDF-1 β from the collagen scaffold promoted tendon regeneration in a rat Achilles tendon defect model. <i>Biomaterials</i> , 2018, 162, 22-33.	11.4	59
56	Bladder Regeneration by Collagen Scaffolds With Collagen Binding Human Basic Fibroblast Growth Factor. <i>Journal of Urology</i> , 2010, 183, 2432-2439.	0.4	58
57	The importance of three-dimensional scaffold structure on stemness maintenance of mouse embryonic stem cells. <i>Biomaterials</i> , 2014, 35, 7724-7733.	11.4	58
58	Ultrasmall Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. <i>Advanced Functional Materials</i> , 2014, 24, 6963-6971.	14.9	58
59	Training Neural Stem Cells on Functional Collagen Scaffolds for Severe Spinal Cord Injury Repair. <i>Advanced Functional Materials</i> , 2016, 26, 5835-5847.	14.9	58
60	Acceleration of chondrogenic differentiation of human mesenchymal stem cells by sustained growth factor release in 3D graphene oxide incorporated hydrogels. <i>Acta Biomaterialia</i> , 2020, 105, 44-55.	8.3	58
61	Urethral tissue regeneration using collagen scaffold modified with collagen binding VEGF in a beagle model. <i>Biomaterials</i> , 2015, 69, 45-55.	11.4	57
62	Erk1/2 promotes proliferation and inhibits neuronal differentiation of neural stem cells. <i>Neuroscience Letters</i> , 2009, 461, 252-257.	2.1	56
63	A Dual Functional Scaffold Tethered with EGFR Antibody Promotes Neural Stem Cell Retention and Neuronal Differentiation for Spinal Cord Injury Repair. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601279.	7.6	56
64	Bridging the gap with functional collagen scaffolds: tuning endogenous neural stem cells for severe spinal cord injury repair. <i>Biomaterials Science</i> , 2018, 6, 265-271.	5.4	56
65	Promotion of peripheral nerve growth by collagen scaffolds loaded with collagen α 1-targeting human nerve growth factor β . <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 1054-1061.	4.0	55
66	Cetuximab and Taxol co-modified collagen scaffolds show combination effects for the repair of acute spinal cord injury. <i>Biomaterials Science</i> , 2018, 6, 1723-1734.	5.4	55
67	Biocompatible Injectable Magnetic Hydrogel Formed by Dynamic Coordination Network. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46233-46240.	8.0	54
68	Demineralized Bone Matrix Scaffolds Modified by CBD-SDF-1 β Promote Bone Regeneration via Recruiting Endogenous Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27511-27522.	8.0	51
69	Effect of longitudinally oriented collagen conduit combined with nerve growth factor on nerve regeneration after dog sciatic nerve injury. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2131-2139.	3.4	51
70	Rapid and Efficient Conversion of Human Fibroblasts into Functional Neurons by Small Molecules. <i>Stem Cell Reports</i> , 2019, 13, 862-876.	4.8	51
71	Effect of Intramyocardial Grafting Collagen Scaffold With Mesenchymal Stromal Cells in Patients With Chronic Ischemic Heart Disease. <i>JAMA Network Open</i> , 2020, 3, e2016236.	5.9	51
72	Aligned collagen scaffold combination with human spinal cord-derived neural stem cells to improve spinal cord injury repair. <i>Biomaterials Science</i> , 2020, 8, 5145-5156.	5.4	51

#	ARTICLE	IF	CITATIONS
73	Taxol-modified collagen scaffold implantation promotes functional recovery after long-distance spinal cord complete transection in canines. <i>Biomaterials Science</i> , 2018, 6, 1099-1108.	5.4	50
74	Collagen scaffold combined with human umbilical cord-derived mesenchymal stem cells promote functional recovery after scar resection in rats with chronic spinal cord injury. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1154-e1163.	2.7	50
75	Collagen scaffolds modified with collagen-binding bFGF promotes the neural regeneration in a rat hemisectioned spinal cord injury model. <i>Science China Life Sciences</i> , 2014, 57, 232-240.	4.9	49
76	Linear Ordered Collagen Scaffolds Loaded with Collagen-Binding Basic Fibroblast Growth Factor Facilitate Recovery of Sciatic Nerve Injury in Rats. <i>Tissue Engineering - Part A</i> , 2014, 20, 1253-1262.	3.1	47
77	Deciphering the endometrial niche of human thin endometrium at single-cell resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	47
78	Improvement of Sciatic Nerve Regeneration Using Laminin-Binding Human NGF- β . <i>PLoS ONE</i> , 2009, 4, e6180.	2.5	46
79	Single ultrasmall Mn ²⁺ -doped NaNdF ₄ nanocrystals as multimodal nanoprobe for magnetic resonance and second near-infrared fluorescence imaging. <i>Nano Research</i> , 2018, 11, 1069-1081.	10.4	45
80	NSCs Migration Promoted and Drug Delivered Exosomes@Collagen Scaffold via a Bio-specific Peptide for One-step Spinal Cord Injury Repair. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001896.	7.6	45
81	Electrospun Collagen Fibers with Spatial Patterning of SDF1 β for the Guidance of Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 1869-1876.	7.6	44
82	Modified VEGF targets the ischemic myocardium and promotes functional recovery after myocardial infarction. <i>Journal of Controlled Release</i> , 2015, 213, 27-35.	9.9	44
83	Improved neovascularization and wound repair by targeting human basic fibroblast growth factor (bFGF) to fibrin. <i>Journal of Molecular Medicine</i> , 2008, 86, 1127-1138.	3.9	42
84	Extrahepatic bile duct regeneration in pigs using collagen scaffolds loaded with human collagen-binding bFGF. <i>Biomaterials</i> , 2012, 33, 4298-4308.	11.4	42
85	Glycolysis-dependent histone deacetylase 4 degradation regulates inflammatory cytokine production. <i>Molecular Biology of the Cell</i> , 2014, 25, 3300-3307.	2.1	42
86	A collagen-binding EGFR single-chain Fv antibody fragment for the targeted cancer therapy. <i>Journal of Controlled Release</i> , 2015, 209, 101-109.	9.9	42
87	Promotion of neurological recovery in rat spinal cord injury by mesenchymal stem cells loaded on nerve-guided collagen scaffold through increasing alternatively activated macrophage polarization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1725-e1736.	2.7	41
88	Adhesive, Stretchable, and Spatiotemporal Delivery Fibrous Hydrogels Harness Endogenous Neural Stem/Progenitor Cells for Spinal Cord Injury Repair. <i>ACS Nano</i> , 2022, 16, 1986-1998.	14.6	40
89	Intranasal nerve growth factor attenuates tau phosphorylation in brain after traumatic brain injury in rats. <i>Journal of the Neurological Sciences</i> , 2014, 345, 48-55.	0.6	39
90	Transdermal Vascular Endothelial Growth Factor Delivery with Surface Engineered Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5173-5180.	8.0	39

#	ARTICLE	IF	CITATIONS
91	The promotion of cerebral ischemia recovery in rats by laminin-binding BDNF. <i>Biomaterials</i> , 2011, 32, 5077-5085.	11.4	38
92	Functional collagen conduits combined with human mesenchymal stem cells promote regeneration after sciatic nerve transection in dogs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1285-1296.	2.7	38
93	Collagen-binding basic fibroblast growth factor improves functional remodeling of scarred endometrium in uterine infertile women: a pilot study. <i>Science China Life Sciences</i> , 2019, 62, 1617-1629.	4.9	38
94	Metal-organic framework-based hydrogel with structurally dynamic properties as a stimuli-responsive localized drug delivery system for cancer therapy. <i>Acta Biomaterialia</i> , 2022, 145, 43-51.	8.3	38
95	Controlled Release of Collagen-Binding SDF-1 β Improves Cardiac Function after Myocardial Infarction by Recruiting Endogenous Stem Cells. <i>Scientific Reports</i> , 2016, 6, 26683.	3.3	37
96	Advances in Biomaterial-Based Spinal Cord Injury Repair. <i>Advanced Functional Materials</i> , 2022, 32, 2110628.	14.9	37
97	Single cell derived spheres of umbilical cord mesenchymal stem cells enhance cell stemness properties, survival ability and therapeutic potential on liver failure. <i>Biomaterials</i> , 2020, 227, 119573.	11.4	36
98	The miR-7 Identified from Collagen Biomaterial-Based Three-Dimensional Cultured Cells Regulates Neural Stem Cell Differentiation. <i>Stem Cells and Development</i> , 2014, 23, 393-405.	2.1	35
99	The neuronal differentiation microenvironment is essential for spinal cord injury repair. <i>Organogenesis</i> , 2017, 13, 63-70.	1.2	35
100	Crosslinked Three-Dimensional Demineralized Bone Matrix for the Adipose-Derived Stromal Cell Proliferation and Differentiation. <i>Tissue Engineering - Part A</i> , 2009, 15, 13-21.	3.1	34
101	A collagen-binding EGFR antibody fragment targeting tumors with a collagen-rich extracellular matrix. <i>Scientific Reports</i> , 2016, 6, 18205.	3.3	33
102	Graphene Oxide Incorporated PLGA Nanofibrous Scaffold for Solid Phase Gene Delivery into Mesenchymal Stem Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2286-2293.	0.9	33
103	Different functional bio-scaffolds share similar neurological mechanism to promote locomotor recovery of canines with complete spinal cord injury. <i>Biomaterials</i> , 2019, 214, 119230.	11.4	32
104	MicroRNA-449c-5p inhibits osteogenic differentiation of human VICs through Smad4-mediated pathway. <i>Scientific Reports</i> , 2017, 7, 8740.	3.3	31
105	Long-term clinical observation of patients with acute and chronic complete spinal cord injury after transplantation of NeuroRegen scaffold. <i>Science China Life Sciences</i> , 2022, 65, 909-926.	4.9	31
106	Single-cell analysis reveals dynamic changes of neural cells in developing human spinal cord. <i>EMBO Reports</i> , 2021, 22, e52728.	4.5	31
107	Bone marrow-derived mesenchymal stem cells in three-dimensional culture promote neuronal regeneration by neurotrophic protection and immunomodulation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1759-1769.	4.0	30
108	NeuroRegen Scaffolds Combined with Autologous Bone Marrow Mononuclear Cells for the Repair of Acute Complete Spinal Cord Injury: A 3-Year Clinical Study. <i>Cell Transplantation</i> , 2020, 29, 096368972095063.	2.5	30

#	ARTICLE	IF	CITATIONS
109	Single-molecule level binding force between collagen and collagen binding domain-growth factor conjugates. <i>Biomaterials</i> , 2013, 34, 6139-6146.	11.4	28
110	Increased vascularization promotes functional recovery in the transected spinal cord rats by implanted vascular endothelial growth factor-targeting collagen scaffold. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1024-1034.	2.3	27
111	^{125}I -Np63-induced DUSP4/GSK3 β /SNAIL pathway in epithelial cells drives endometrial fibrosis. <i>Cell Death and Disease</i> , 2020, 11, 449.	6.3	27
112	Biomimetic collagen biomaterial induces in situ lung regeneration by forming functional alveolar. <i>Biomaterials</i> , 2020, 236, 119825.	11.4	27
113	Lung endothelial cell-targeted peptide-guided bFGF promotes the regeneration after radiation induced lung injury. <i>Biomaterials</i> , 2018, 184, 10-19.	11.4	26
114	Comparison of subacute and chronic scar tissues after complete spinal cord transection. <i>Experimental Neurology</i> , 2018, 306, 132-137.	4.1	26
115	Bladder regeneration in a canine model using a bladder acellular matrix loaded with a collagen-binding bFGF. <i>Biomaterials Science</i> , 2017, 5, 2427-2436.	5.4	26
116	The interplay of T1- and T2-relaxation on T1-weighted MRI of hMSCs induced by Gd-DOTA-peptides. <i>Biomaterials</i> , 2014, 35, 4168-4174.	11.4	25
117	Acceleration of wound healing in acute full-thickness skin wounds using a collagen-binding peptide with an affinity for MSCs. <i>Burns and Trauma</i> , 2014, 2, 181.	0.7	25
118	Collagen/Heparin Bi-Affinity Multilayer Modified Collagen Scaffolds for Controlled bFGF Release to Improve Angiogenesis In Vivo. <i>Macromolecular Bioscience</i> , 2018, 18, e1800086.	4.1	25
119	Comparison of Regenerative Effects of Transplanting Three-Dimensional Longitudinal Scaffold Loaded-Human Mesenchymal Stem Cells and Human Neural Stem Cells on Spinal Cord Completely Transected Rats. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1671-1680.	5.2	25
120	Use of Natural Neural Scaffolds Consisting of Engineered Vascular Endothelial Growth Factor Immobilized on Ordered Collagen Fibers Filled in a Collagen Tube for Peripheral Nerve Regeneration in Rats. <i>International Journal of Molecular Sciences</i> , 2014, 15, 18593-18609.	4.1	24
121	Single-cell RNA sequencing reveals Nestin+ active neural stem cells outside the central canal after spinal cord injury. <i>Science China Life Sciences</i> , 2022, 65, 295-308.	4.9	24
122	Long-term stability, high strength, and 3D printable alginate hydrogel for cartilage tissue engineering application. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 064102.	3.3	24
123	Maintenance of the self-renewal properties of neural progenitor cells cultured in three-dimensional collagen scaffolds by the REDD1-mTOR signal pathway. <i>Biomaterials</i> , 2013, 34, 1921-1928.	11.4	23
124	Accelerated Postero-Lateral Spinal Fusion by Collagen Scaffolds Modified with Engineered Collagen-Binding Human Bone Morphogenetic Protein-2 in Rats. <i>PLoS ONE</i> , 2014, 9, e98480.	2.5	23
125	Collagen scaffolds combined with collagen-binding ciliary neurotrophic factor facilitate facial nerve repair in mini-pigs. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1669-1676.	4.0	23
126	The miR-20-Rest-Wnt signaling axis regulates neural progenitor cell differentiation. <i>Scientific Reports</i> , 2016, 6, 23300.	3.3	23

#	ARTICLE	IF	CITATIONS
127	Therapeutic Effects of Human Umbilical Cord-Derived Mesenchymal Stem Cells on Canine Radiation-Induced Lung Injury. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 407-416.	0.8	23
128	Aligned Scaffolds with Biomolecular Gradients for Regenerative Medicine. <i>Polymers</i> , 2019, 11, 341.	4.5	23
129	Direct Neuronal Differentiation of Neural Stem Cells for Spinal Cord Injury Repair. <i>Stem Cells</i> , 2021, 39, 1025-1032.	3.2	23
130	Regulation of human mesenchymal stem cells differentiation into chondrocytes in extracellular matrix-based hydrogel scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 316-323.	5.0	22
131	Effects of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells. <i>International Journal of Oncology</i> , 2018, 52, 1787-1800.	3.3	22
132	Vascular endothelial growth factor activates neural stem cells through epidermal growth factor receptor signal after spinal cord injury. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 375-385.	3.9	22
133	Injectable collagen scaffold promotes swine myocardial infarction recovery by long-term local retention of transplanted human umbilical cord mesenchymal stem cells. <i>Science China Life Sciences</i> , 2021, 64, 269-281.	4.9	22
134	Defective autophagy contributes to endometrial epithelial-mesenchymal transition in intrauterine adhesions. <i>Autophagy</i> , 2022, 18, 2427-2442.	9.1	22
135	The bone-derived collagen containing mineralized matrix for the loading of collagen-binding bone morphogenetic protein-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 725-734.	4.0	21
136	Single step synthesis of amine-functionalized mesoporous magnetite nanoparticles and their application for copper ions removal from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 220-228.	9.4	21
137	Facile-synthesized ultrasmall CuS nanocrystals as drug nanocarriers for highly effective chemo-photothermal combination therapy of cancer. <i>RSC Advances</i> , 2016, 6, 20949-20960.	3.6	21
138	Substrate-independent immunomodulatory characteristics of mesenchymal stem cells in three-dimensional culture. <i>PLoS ONE</i> , 2018, 13, e0206811.	2.5	21
139	Heparan sulfate proteoglycan promotes fibroblast growth factor-2 function for ischemic heart repair. <i>Biomaterials Science</i> , 2019, 7, 5438-5450.	5.4	21
140	Biomineralization improves the thermostability of foot-and-mouth disease virus-like particles and the protective immune response induced. <i>Nanoscale</i> , 2019, 11, 22748-22761.	5.6	21
141	Complete canine spinal cord transection model: a large animal model for the translational research of spinal cord regeneration. <i>Science China Life Sciences</i> , 2018, 61, 115-117.	4.9	20
142	Epidermal growth factor receptor-extracellular-regulated kinase blockade upregulates TRIM32 signaling cascade and promotes neurogenesis after spinal cord injury. <i>Stem Cells</i> , 2020, 38, 118-133.	3.2	19
143	Effect of collagen scaffold with adipose-derived stromal vascular fraction cells on diabetic wound healing: A study in a diabetic porcine model. <i>Tissue Engineering and Regenerative Medicine</i> , 2013, 10, 192-199.	3.7	18
144	circPTPN12/miR-21-p53 pathway contributes to human endometrial fibrosis. <i>ELife</i> , 2021, 10, .	6.0	18

#	ARTICLE	IF	CITATIONS
145	Acceleration of Healing of Traumatic Tympanic Membrane Perforation in Rats by Implanted Collagen Membrane Integrated with Collagen-Binding Basic Fibroblast Growth Factor. <i>Tissue Engineering - Part A</i> , 2017, 23, 20-29.	3.1	17
146	Collagen-binding VEGF targeting the cardiac extracellular matrix promotes recovery in porcine chronic myocardial infarction. <i>Biomaterials Science</i> , 2018, 6, 356-363.	5.4	17
147	Pre-Clinical Evaluation of CBD-NT3 Modified Collagen Scaffolds in Completely Spinal Cord Transected Non-Human Primates. <i>Journal of Neurotrauma</i> , 2019, 36, 2316-2324.	3.4	17
148	Dual Cues Laden Scaffold Facilitates Neurovascular Regeneration and Motor Functional Recovery After Complete Spinal Cord Injury. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100089.	7.6	17
149	Transplantation of adult spinal cord grafts into spinal cord transected rats improves their locomotor function. <i>Science China Life Sciences</i> , 2019, 62, 725-733.	4.9	16
150	Lineage tracing reveals the origin of Nestin-positive cells are heterogeneous and rarely from ependymal cells after spinal cord injury. <i>Science China Life Sciences</i> , 2022, 65, 757-769.	4.9	16
151	The inhibition effects of insulin on BMP2-induced muscle heterotopic ossification. <i>Biomaterials</i> , 2014, 35, 9322-9331.	11.4	15
152	Flexible conductive silk-PPy hydrogel toward wearable electronic strain sensors. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 024107.	3.3	15
153	Directed osteogenic differentiation of mesenchymal stem cell in three-dimensional biodegradable methylcellulose-based scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 332-338.	5.0	14
154	An effective delivery vehicle of demineralized bone matrix incorporated with engineered collagen-binding human bone morphogenetic protein-2 to accelerate spinal fusion at low dose. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 2.	3.6	14
155	Leukemia inhibitory factor promotes the regeneration of rat uterine horns with full thickness injury. <i>Wound Repair and Regeneration</i> , 2019, 27, 477-487.	3.0	14
156	Optimized, visible light-induced crosslinkable hybrid gelatin/hyaluronic acid scaffold promotes complete spinal cord injury repair. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 024104.	3.3	14
157	Keep warm and get success: The role of postischemic temperature in the mouse middle cerebral artery occlusion model. <i>Brain Research Bulletin</i> , 2014, 101, 12-17.	3.0	13
158	Functional biomaterial-based regenerative microenvironment for spinal cord injury repair. <i>National Science Review</i> , 2017, 4, 530-532.	9.5	13
159	Lower fluidity of supported lipid bilayers promotes neuronal differentiation of neural stem cells by enhancing focal adhesion formation. <i>Biomaterials</i> , 2018, 161, 106-116.	11.4	13
160	Transplantation of collagen sponge-based three-dimensional neural stem cells cultured in a RCCS facilitates locomotor functional recovery in spinal cord injury animals. <i>Biomaterials Science</i> , 2022, 10, 915-924.	5.4	13
161	Collagen-binding vascular endothelial growth factor attenuates CCl4-induced liver fibrosis in mice. <i>Molecular Medicine Reports</i> , 2016, 14, 4680-4686.	2.4	12
162	Binary scaffold facilitates <i>in situ</i> regeneration of axons and neurons for complete spinal cord injury repair. <i>Biomaterials Science</i> , 2021, 9, 2955-2971.	5.4	12

#	ARTICLE	IF	CITATIONS
163	Scar tissue removal-activated endogenous neural stem cells aid Taxol-modified collagen scaffolds in repairing chronic long-distance transected spinal cord injury. <i>Biomaterials Science</i> , 2021, 9, 4778-4792.	5.4	12
164	Upregulation of Apol8 by Epothilone D facilitates the neuronal relay of transplanted NSCs in spinal cord injury. <i>Stem Cell Research and Therapy</i> , 2021, 12, 300.	5.5	12
165	The Rotary Cell Culture System increases NTRK3 expression and promotes neuronal differentiation and migratory ability of neural stem cells cultured on collagen sponge. <i>Stem Cell Research and Therapy</i> , 2021, 12, 298.	5.5	12
166	Systematic Analysis of mRNA and miRNA Expression of 3D-Cultured Neural Stem Cells (NSCs) in Spaceflight. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 434.	3.7	10
167	Urethral Tissue Reconstruction Using the Acellular Dermal Matrix Patch Modified with Collagen-Binding VEGF in Beagle Urethral Injury Models. <i>BioMed Research International</i> , 2021, 2021, 1-10.	1.9	10
168	The Extracellular Matrix Enriched With Exosomes for the Treatment on Pulmonary Fibrosis in Mice. <i>Frontiers in Pharmacology</i> , 2021, 12, 747223.	3.5	10
169	Collagen scaffold microenvironments modulate cell lineage commitment for differentiation of bone marrow cells into regulatory dendritic cells. <i>Scientific Reports</i> , 2017, 7, 42049.	3.3	9
170	Restoration of mandibular bone defects with demineralized bone matrix combined with three-dimensional cultured bone marrow-derived mesenchymal stem cells in minipig models. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 147.	3.6	9
171	Allotransplantation of adult spinal cord tissues after complete transected spinal cord injury: Long-term survival and functional recovery in canines. <i>Science China Life Sciences</i> , 2020, 63, 1879-1886.	4.9	9
172	Effect of different regions of Nogo-A on the differentiation of neural progenitors. <i>Neuroscience Letters</i> , 2009, 458, 132-135.	2.1	8
173	Evaluation of a bioactive bone-inducing material consisting of collagen scaffolds and collagen-binding bone morphogenetic protein 2. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3093-3101.	4.0	8
174	Three-dimensional hepatocyte culture system for the study of <i>Echinococcus multilocularis</i> larval development. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006309.	3.0	8
175	Repair of lumbar vertebral bone defects by bone particles combined with hUC-MSCs in weaned rabbit. <i>Regenerative Medicine</i> , 2019, 14, 915-923.	1.7	8
176	Magnetic Resonance Imaging Revealed Splenic Targeting of Canine Parvovirus Capsid Protein VP2. <i>Scientific Reports</i> , 2016, 6, 23392.	3.3	7
177	Recent developments in regenerative ophthalmology. <i>Science China Life Sciences</i> , 2020, 63, 1450-1490.	4.9	7
178	Collagen scaffolds tethered with bFGF promote corpus spongiosum regeneration in a beagle model. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 031001.	3.3	6
179	Reflection and observation: cell-based screening failing to detect HBV in HUMSCs derived from HBV-infected mothers underscores the importance of more stringent donor eligibility to reduce risk of transmission of infectious diseases for stem cell-based medical products. <i>Stem Cell Research and Therapy</i> , 2018, 9, 177.	5.5	6
180	Collagen particles with collagen-binding bone morphogenetic protein-2 promote vertebral laminar regeneration in infant rabbits. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055008.	3.3	6

#	ARTICLE	IF	CITATIONS
181	Microgravity may help future organ/tissue manufacture. <i>Science China Life Sciences</i> , 2016, 59, 850-853.	4.9	5
182	Bioinspired bimodal micro-nanofibrous scaffolds promote the tenogenic differentiation of tendon stem/progenitor cells for achilles tendon regeneration. <i>Biomaterials Science</i> , 2022, 10, 753-769.	5.4	5
183	The Promotion of Neural Regeneration in A Rat Facial Nerve Crush Injury Model Using Collagen-Binding NT-3. <i>Annals of Clinical and Laboratory Science</i> , 2016, 46, 578-585.	0.2	5
184	Scaffolds for spinal cord injury repair: from proof of concept to first in-human studies and clinical trials. , 2020, , 603-619.		4
185	Spatiotemporal dynamic changes, proliferation, and differentiation characteristics of Sox9-positive cells after severe complete transection spinal cord injury. <i>Experimental Neurology</i> , 2021, 337, 113556.	4.1	4
186	High strength pure chitosan hydrogels via double crosslinking strategy. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045048.	3.3	4
187	Clinical application of collagen membrane with umbilical cord-derived mesenchymal stem cells to repair nasal septal perforation. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 014101.	3.3	4
188	Mesenchymal stem cell-derived extracellular matrix (mECM): a bioactive and versatile scaffold for musculoskeletal tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 012002.	3.3	4
189	Three dimensional collagen scaffolds promote iPSC induction with higher pluripotency. <i>Protein and Cell</i> , 2016, 7, 844-848.	11.0	3
190	Contralateral Axon Sprouting but Not Ipsilateral Regeneration Is Responsible for Spontaneous Locomotor Recovery Post Spinal Cord Hemisection. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 730348.	3.7	3
191	Stem cell research is coming of age in China. <i>Journal of Genetics and Genomics</i> , 2010, 37, 413.	3.9	2
192	The growth and development of Biomedical Materials. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 040201.	3.3	2
193	Clinical study of injectable collagen scaffold with autologous fat cells for repair of severe vocal fold injury. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035004.	3.3	2
194	Differential effects of recombinant fusion proteins TAT-OCT4 and TAT-NANOG on adult human fibroblasts. <i>Frontiers in Biology</i> , 2010, 5, 424-430.	0.7	1
195	Neural Stem Cells: Radially Aligned Electrospun Fibers with Continuous Gradient of SDF1 β for the Guidance of Neural Stem Cells (Small 36/2016). <i>Small</i> , 2016, 12, 5008-5008.	10.0	1
196	Flexible conductive silk-PPy hydrogel toward wearable electronic strain sensors. <i>Biomedical Materials (Bristol)</i> , 2022, , .	3.3	0
197	Advances in Biomaterial-Based Spinal Cord Injury Repair (Adv. Funct. Mater. 13/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0