

Jian-Wu Dai

List of Publications by Citations

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186
papers

6,414
citations

48
h-index

69
g-index

207
ext. papers

7,970
ext. citations

7.9
avg, IF

5.74
L-index

#	Paper	IF	Citations
186	The in vitro and in vivo toxicity of graphene quantum dots. <i>Biomaterials</i> , 2014 , 35, 5041-8	15.6	359
185	Enhanced proliferation and osteogenic differentiation of mesenchymal stem cells on graphene oxide-incorporated electrospun poly(lactic-co-glycolic acid) nanofibrous mats. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6331-9	9.5	246
184	Homogeneous osteogenesis and bone regeneration by demineralized bone matrix loading with collagen-targeting bone morphogenetic protein-2. <i>Biomaterials</i> , 2007 , 28, 1027-35	15.6	146
183	Transplantation of bone marrow mesenchymal stem cells on collagen scaffolds for the functional regeneration of injured rat uterus. <i>Biomaterials</i> , 2014 , 35, 4888-900	15.6	126
182	Transplantation of human mesenchymal stem cells loaded on collagen scaffolds for the treatment of traumatic brain injury in rats. <i>Biomaterials</i> , 2013 , 34, 5937-46	15.6	114
181	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, 2927-35	3.9	106
180	The effect of collagen-binding NGF-beta on the promotion of sciatic nerve regeneration in a rat sciatic nerve crush injury model. <i>Biomaterials</i> , 2009 , 30, 4649-56	15.6	104
179	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, 3939-48	15.6	102
178	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	15.6	99
177	Collagen-targeting vascular endothelial growth factor improves cardiac performance after myocardial infarction. <i>Circulation</i> , 2009 , 119, 1776-84	16.7	99
176	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, 9212-20	15.6	98
175	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	8.3	94
174	Regeneration of uterine horns in rats by collagen scaffolds loaded with collagen-binding human basic fibroblast growth factor. <i>Biomaterials</i> , 2011 , 32, 8172-81	15.6	93
173	Stem-cell-capturing collagen scaffold promotes cardiac tissue regeneration. <i>Biomaterials</i> , 2011 , 32, 2508-15	15.6	87
172	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, 118-24	4.8	86
171	A modified collagen scaffold facilitates endogenous neurogenesis for acute spinal cord injury repair. <i>Acta Biomaterialia</i> , 2017 , 51, 304-316	10.8	80
170	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, 5107-16	15.6	80

169	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	15.6	77
168	A collagen microchannel scaffold carrying paclitaxel-liposomes induces neuronal differentiation of neural stem cells through Wnt/ β -catenin signaling for spinal cord injury repair. <i>Biomaterials</i> , 2018 , 183, 114-127	15.6	77
167	Nogo-66 promotes the differentiation of neural progenitors into astroglial lineage cells through mTOR-STAT3 pathway. <i>PLoS ONE</i> , 2008 , 3, e1856	3.7	77
166	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	4	76
165	BMSCs-laden gelatin/sodium alginate/carboxymethyl chitosan hydrogel for 3D bioprinting. <i>RSC Advances</i> , 2016 , 6, 108423-108430	3.7	69
164	Myocardial-Infarction-Responsive Smart Hydrogels Targeting Matrix Metalloproteinase for On-Demand Growth Factor Delivery. <i>Advanced Materials</i> , 2019 , 31, e1902900	24	67
163	Moldable Hyaluronan Hydrogel Enabled by Dynamic Metal-Bisphosphonate Coordination Chemistry for Wound Healing. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700973	10.1	66
162	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, 1075-86	5.7	63
161	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, 1671-83	5.4	61
160	MiR-125b orchestrates cell proliferation, differentiation and migration in neural stem/progenitor cells by targeting Nestin. <i>BMC Neuroscience</i> , 2012 , 13, 116	3.2	60
159	Collagen scaffolds modified with CNTF and bFGF promote facial nerve regeneration in minipigs. <i>Biomaterials</i> , 2014 , 35, 7819-27	15.6	59
158	Novel nerve guidance material prepared from bovine aponeurosis. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 591-8	5.4	59
157	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, 647-55	8.5	59
156	Radially Aligned Electrospun Fibers with Continuous Gradient of SDF1 β for the Guidance of Neural Stem Cells. <i>Small</i> , 2016 , 12, 5009-5018	11	58
155	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	4	58
154	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 , 82, 630-6	5.4	58
153	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, 13960-71	9.5	56
152	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	8.5	55

151	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	8.3	54
150	The three-dimensional collagen scaffold improves the stemness of rat bone marrow mesenchymal stem cells. <i>Journal of Genetics and Genomics</i> , 2012 , 39, 633-41	4	54
149	Induction of rat facial nerve regeneration by functional collagen scaffolds. <i>Biomaterials</i> , 2013 , 34, 1302-1306	10.6	53
148	Scaffold-facilitated locomotor improvement post complete spinal cord injury: Motor axon regeneration versus endogenous neuronal relay formation. <i>Biomaterials</i> , 2019 , 197, 20-31	15.6	53
147	Ultrasmall Graphene Oxide Supported Gold Nanoparticles as Adjuvants Improve Humoral and Cellular Immunity in Mice. <i>Advanced Functional Materials</i> , 2014 , 24, 6963-6971	15.6	52
146	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, 753-9	15.6	52
145	Promotion of peripheral nerve growth by collagen scaffolds loaded with collagen-targeting human nerve growth factor-beta. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 1054-1061	5.4	52
144	Paracrine factors from mesenchymal stem cells attenuate epithelial injury and lung fibrosis. <i>Molecular Medicine Reports</i> , 2015 , 11, 2831-7	2.9	50
143	Bladder regeneration by collagen scaffolds with collagen binding human basic fibroblast growth factor. <i>Journal of Urology</i> , 2010 , 183, 2432-9	2.5	50
142	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	4.9	49
141	The importance of three-dimensional scaffold structure on stemness maintenance of mouse embryonic stem cells. <i>Biomaterials</i> , 2014 , 35, 7724-33	15.6	48
140	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	7.4	48
139	Erk1/2 promotes proliferation and inhibits neuronal differentiation of neural stem cells. <i>Neuroscience Letters</i> , 2009 , 461, 252-7	3.3	48
138	Urethral tissue regeneration using collagen scaffold modified with collagen binding VEGF in a beagle model. <i>Biomaterials</i> , 2015 , 69, 45-55	15.6	47
137	Transplantation of collagen scaffold with autologous bone marrow mononuclear cells promotes functional endometrium reconstruction via downregulating Np63 expression in Asherman's syndrome. <i>Science China Life Sciences</i> , 2017 , 60, 404-416	8.5	46
136	Functionalized collagen scaffold implantation and cAMP administration collectively facilitate spinal cord regeneration. <i>Acta Biomaterialia</i> , 2016 , 30, 233-245	10.8	46
135	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	10.1	46
134	Improvement of sciatic nerve regeneration using laminin-binding human NGF-beta. <i>PLoS ONE</i> , 2009 , 4, e6180	3.7	44

133	A three-dimensional collagen scaffold cell culture system for screening anti-glioma therapeutics. <i>Oncotarget</i> , 2016 , 7, 56904-56914	3.3	43
132	Training Neural Stem Cells on Functional Collagen Scaffolds for Severe Spinal Cord Injury Repair. <i>Advanced Functional Materials</i> , 2016 , 26, 5835-5847	15.6	43
131	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	7.4	41
130	Improved neovascularization and wound repair by targeting human basic fibroblast growth factor (bFGF) to fibrin. <i>Journal of Molecular Medicine</i> , 2008 , 86, 1127-38	5.5	41
129	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	15.6	39
128	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	4.4	39
127	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	8.5	39
126	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, 232-40	8.5	38
125	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	9.5	38
124	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	36
123	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, 1253-62	3.9	35
122	Extrahepatic bile duct regeneration in pigs using collagen scaffolds loaded with human collagen-binding bFGF. <i>Biomaterials</i> , 2012 , 33, 4298-308	15.6	35
121	Electrospun Collagen Fibers with Spatial Patterning of SDF1 β for the Guidance of Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1869-76	10.1	35
120	A collagen-binding EGFR single-chain Fv antibody fragment for the targeted cancer therapy. <i>Journal of Controlled Release</i> , 2015 , 209, 101-9	11.7	34
119	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	15.6	34
118	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	3.2	34
117	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	10.8	32
116	The promotion of cerebral ischemia recovery in rats by laminin-binding BDNF. <i>Biomaterials</i> , 2011 , 32, 5077-85	15.6	32

115	Modified VEGF targets the ischemic myocardium and promotes functional recovery after myocardial infarction. <i>Journal of Controlled Release</i> , 2015 , 213, 27-35	11.7	31
114	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	3.9	31
113	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	10.1	30
112	A novel hydrogel-based treatment for complete transection spinal cord injury repair is driven by microglia/macrophages repopulation. <i>Biomaterials</i> , 2020 , 237, 119830	15.6	30
111	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	4.4	30
110	Glycolysis-dependent histone deacetylase 4 degradation regulates inflammatory cytokine production. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3300-7	3.5	30
109	Transdermal Vascular Endothelial Growth Factor Delivery with Surface Engineered Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5173-5180	9.5	29
108	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	4.9	29
107	Biocompatible Injectable Magnetic Hydrogel Formed by Dynamic Coordination Network. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46233-46240	9.5	29
106	3D bioprinted neural tissue constructs for spinal cord injury repair. <i>Biomaterials</i> , 2021 , 272, 120771	15.6	28
105	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	7.4	28
104	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	3.5	27
103	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	8.3	26
102	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	7.4	25
101	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	4.4	25
100	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	4.4	25
99	MicroRNA-449c-5p inhibits osteogenic differentiation of human VICs through Smad4-mediated pathway. <i>Scientific Reports</i> , 2017 , 7, 8740	4.9	25
98	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	1.3	24

97	Single-molecule level binding force between collagen and collagen binding domain-growth factor conjugates. <i>Biomaterials</i> , 2013 , 34, 6139-46	15.6	23
96	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, 1759-69	5.4	23
95	A collagen-binding EGFR antibody fragment targeting tumors with a collagen-rich extracellular matrix. <i>Scientific Reports</i> , 2016 , 6, 18205	4.9	22
94	The neuronal differentiation microenvironment is essential for spinal cord injury repair. <i>Organogenesis</i> , 2017 , 13, 63-70	1.7	21
93	The interplay of T1- and T2-relaxation on T1-weighted MRI of hMSCs induced by Gd-DOTA-peptides. <i>Biomaterials</i> , 2014 , 35, 4168-74	15.6	21
92	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, 1921-8	15.6	21
91	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	7.4	21
90	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	15.6	20
89	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, 1669-76	5.4	20
88	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, 181-6		20
87	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	3.7	20
86	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, 18593-609	6.3	20
85	Regulation of human mesenchymal stem cells differentiation into chondrocytes in extracellular matrix-based hydrogel scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 316-23	6	20
84	Effect of Intramyocardial Grafting Collagen Scaffold With Mesenchymal Stromal Cells in Patients With Chronic Ischemic Heart Disease: A Randomized Clinical Trial. <i>JAMA Network Open</i> , 2020 , 3, e2016236	10.4	19
83	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	8.5	18
82	Rapid and Efficient Conversion of Human Fibroblasts into Functional Neurons by Small Molecules. <i>Stem Cell Reports</i> , 2019 , 13, 862-876	8	18
81	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 , 88, 725-34	5.4	18
80	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	15.6	18

79	The miR-20-Rest-Wnt signaling axis regulates neural progenitor cell differentiation. <i>Scientific Reports</i> , 2016 , 6, 23300	4.9	18
78	Lung endothelial cell-targeted peptide-guided bFGF promotes the regeneration after radiation induced lung injury. <i>Biomaterials</i> , 2018 , 184, 10-19	15.6	18
77	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	4.4	17
76	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	8.5	16
75	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, 220-8	9.3	16
74	Small molecules combined with collagen hydrogel direct neurogenesis and migration of neural stem cells after spinal cord injury. <i>Biomaterials</i> , 2021 , 269, 120479	15.6	16
73	Facile-synthesized ultrasmall CuS nanocrystals as drug nanocarriers for highly effective chemophotothermal combination therapy of cancer. <i>RSC Advances</i> , 2016 , 6, 20949-20960	3.7	15
72	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	4.5	15
71	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	7.4	15
70	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	5.5	15
69	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	10.1	15
68	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	3.8	14
67	Heparan sulfate proteoglycan promotes fibroblast growth factor-2 function for ischemic heart repair. <i>Biomaterials Science</i> , 2019 , 7, 5438-5450	7.4	14
66	Collagen/Heparin Bi-Affinity Multilayer Modified Collagen Scaffolds for Controlled bFGF Release to Improve Angiogenesis In Vivo. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800086	5.5	14
65	Comparison of subacute and chronic scar tissues after complete spinal cord transection. <i>Experimental Neurology</i> , 2018 , 306, 132-137	5.7	14
64	Aligned Scaffolds with Biomolecular Gradients for Regenerative Medicine. <i>Polymers</i> , 2019 , 11,	4.5	13
63	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	6	13
62	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, 12-7	3.9	13

61	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	6.8	13
60	Substrate-independent immunomodulatory characteristics of mesenchymal stem cells in three-dimensional culture. <i>PLoS ONE</i> , 2018 , 13, e0206811	3.7	13
59	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, 9636897209450637 ¹²	4.5	12
58	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	4	12
57	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	8.5	11
56	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	5.4	11
55	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	3.9	11
54	Biom mineralization improves the thermostability of foot-and-mouth disease virus-like particles and the protective immune response induced. <i>Nanoscale</i> , 2019 , 11, 22748-22761	7.7	11
53	Biomimetic collagen biomaterial induces in situ lung regeneration by forming functional alveolar. <i>Biomaterials</i> , 2020 , 236, 119825	15.6	10
52	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	15.6	10
51	The inhibition effects of insulin on BMP2-induced muscle heterotopic ossification. <i>Biomaterials</i> , 2014 , 35, 9322-31	15.6	10
50	Direct neuronal differentiation of neural stem cells for spinal cord injury repair. <i>Stem Cells</i> , 2021 , 39, 1025-1032	5.8	10
49	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	5.8	10
48	Collagen-binding VEGF targeting the cardiac extracellular matrix promotes recovery in porcine chronic myocardial infarction. <i>Biomaterials Science</i> , 2018 , 6, 356-363	7.4	10
47	Ep63-induced DUSP4/GSK3 β /SNAI1 pathway in epithelial cells drives endometrial fibrosis. <i>Cell Death and Disease</i> , 2020 , 11, 449	9.8	9
46	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> , 2017 , 29, 2	4.5	9
45	Collagen-binding vascular endothelial growth factor attenuates CCl4-induced liver fibrosis in mice. <i>Molecular Medicine Reports</i> , 2016 , 14, 4680-4686	2.9	9
44	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. <i>Biomaterials</i> , 2021 , 280, 121279	15.6	9

43	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	8.5	8
42	Collagen scaffold microenvironments modulate cell lineage commitment for differentiation of bone marrow cells into regulatory dendritic cells. <i>Scientific Reports</i> , 2017 , 7, 42049	4.9	7
41	Magnetic Resonance Imaging Revealed Splenic Targeting of Canine Parvovirus Capsid Protein VP2. <i>Scientific Reports</i> , 2016 , 6, 23392	4.9	7
40	Repair of lumbar vertebral bone defects by bone particles combined with hUC-MSCs in weaned rabbit. <i>Regenerative Medicine</i> , 2019 , 14, 915-923	2.5	7
39	Functional biomaterial-based regenerative microenvironment for spinal cord injury repair. <i>National Science Review</i> , 2017 , 4, 530-532	10.8	7
38	Effect of different regions of Nogo-A on the differentiation of neural progenitors. <i>Neuroscience Letters</i> , 2009 , 458, 132-5	3.3	7
37	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	4.5	7
36	Leukemia inhibitory factor promotes the regeneration of rat uterine horns with full-thickness injury. <i>Wound Repair and Regeneration</i> , 2019 , 27, 477-487	3.6	6
35	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, 3093-101	5.4	6
34	Three-dimensional hepatocyte culture system for the study of Echinococcus multilocularis larval development. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006309	4.8	6
33	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> , 2021 , 1	8.5	6
32	Long-term stability, high strength, and 3D printable alginate hydrogel for cartilage tissue engineering application. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	6
31	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	8.5	5
30	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	6.1	5
29	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	8.3	5
28	Adhesive, Stretchable, and Spatiotemporal Delivery Fibrous Hydrogels Harness Endogenous Neural Stem/Progenitor Cells for Spinal Cord Injury Repair. <i>ACS Nano</i> , 2021 ,	16.7	5
27	Single-cell RNA sequencing reveals Nestin active neural stem cells outside the central canal after spinal cord injury. <i>Science China Life Sciences</i> , 2021 , 1	8.5	5
26	circPTPN12/miR-21-5 p/ILP63 pathway contributes to human endometrial fibrosis. <i>ELife</i> , 2021 , 10,	8.9	5

25	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	0.9	5
24	Microgravity may help future organ/tissue manufacture. <i>Science China Life Sciences</i> , 2016 , 59, 850-3	8.5	4
23	Collagen particles with collagen-binding bone morphogenetic protein-2 promote vertebral laminar regeneration in infant rabbits. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055008	3.5	4
22	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> , 2021 , 1	8.5	4
21	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	8.3	4
20	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	7.4	4
19	Recent developments in regenerative ophthalmology. <i>Science China Life Sciences</i> , 2020 , 63, 1450-1490	8.5	3
18	Advances in Biomaterial-Based Spinal Cord Injury Repair. <i>Advanced Functional Materials</i> , 2110628	15.6	3
17	Dual-Cues Laden Scaffold Facilitates Neurovascular Regeneration and Motor Functional Recovery After Complete Spinal Cord Injury. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100089	10.1	3
16	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	8.3	3
15	Collagen scaffolds tethered with bFGF promote corpus spongiosum regeneration in a beagle model. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 031001	3.5	3
14	Scaffolds for spinal cord injury repair: from proof of concept to first in-human studies and clinical trials 2020 , 603-619		2
13	Three dimensional collagen scaffolds promote iPSC induction with higher pluripotency. <i>Protein and Cell</i> , 2016 , 7, 844-848	7.2	2
12	Single-cell analysis reveals dynamic changes of neural cells in developing human spinal cord. <i>EMBO Reports</i> , 2021 , 22, e52728	6.5	2
11	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	5.7	2
10	Binary scaffold facilitates in situ regeneration of axons and neurons for complete spinal cord injury repair. <i>Biomaterials Science</i> , 2021 , 9, 2955-2971	7.4	2
9	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	11	1
8	Differential effects of recombinant fusion proteins TAT-OCT4 and TAT-NANOG on adult human fibroblasts. <i>Frontiers in Biology</i> , 2010 , 5, 424-430		1

7	High strength pure chitosan hydrogels via double crosslinking strategy. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	1
6	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, 5502740	2.740	0
5	Mesenchymal stem cell-derived extracellular matrix (mECM): a bioactive and versatile scaffold for musculoskeletal tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2020 , 16, 012002	3.5	0
4	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	6.1	0
3	Defective autophagy contributes to endometrial epithelial-mesenchymal transition in intrauterine adhesions.. <i>Autophagy</i> , 2022 , 1-16	10.2	0
2	The Extracellular Matrix Enriched With Exosomes for the Treatment on Pulmonary Fibrosis in Mice.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 747223	5.6	0
1	Advances in Biomaterial-Based Spinal Cord Injury Repair (Adv. Funct. Mater. 13/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270081	15.6	