Yasuhiko Tabata

List of Publications by Year
in descending order

355 papers	16,261 citations	16411 64 h-index	22102 113 g-index
373 all docs	373 docs citations	373 times ranked	16041 citing authors

#	Article	IF	Citations
1	Gelatin as a delivery vehicle for the controlled release of bioactive molecules. Journal of Controlled Release, 2005, 109, 256-274.	4.8	928
2	Protein release from gelatin matrices. Advanced Drug Delivery Reviews, 1998, 31, 287-301.	6.6	753
3	Coupling of bone resorption and formation by RANKL reverse signalling. Nature, 2018, 561, 195-200.	13.7	376
4	Controlled release of growth factors based on biodegradation of gelatin hydrogel. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 77-88.	1.9	369
5	Tissue Regeneration Based on Growth Factor Release. Tissue Engineering, 2003, 9, 5-15.	4.9	327
6	Vascularization effect of basic fibroblast growth factor released from gelatin hydrogels with different biodegradabilities. Biomaterials, 1999, 20, 2169-2175.	5.7	313
7	4D printing of polymeric materials for tissue and organ regeneration. Materials Today, 2017, 20, 577-591.	8.3	292
8	Osteogenic differentiation of mesenchymal stem cells in biodegradable sponges composed of gelatin and Î²-tricalcium phosphate. Biomaterials, 2005, 26, 3587-3596.	5.7	288
9	Biomaterial technology for tissue engineering applications. Journal of the Royal Society Interface, 2009, 6, S311-24.	1.5	273
10	Biodegradation of Hydrogel Carrier Incorporating Fibroblast Growth Factor. Tissue Engineering, 1999, 5, 127-138.	4.9	267
11	Accelerated tissue regeneration through incorporation of basic fibroblast growth factor-impregnated gelatin microspheres into artificial dermis. Biomaterials, 2000, 21, 489-499.	5.7	261
12	Adipose tissue engineering based on human preadipocytes combined with gelatin microspheres containing basic fibroblast growth factor. Biomaterials, 2003, 24, 2513-2521.	5.7	248
13	Controlled Delivery of Basic Fibroblast Growth Factor Promotes Human Cardiosphere-Derived Cell Engraftment to Enhance Cardiac Repair for Chronic Myocardial Infarction. Journal of the American College of Cardiology, 2008, 52, 1858-1865.	1.2	213
14	Macrophage phagocytosis of biodegradable microspheres composed ofL-lactic acid/glycolic acid homo- and copolymers. Journal of Biomedical Materials Research Part B, 1988, 22, 837-858.	3.0	211
15	Bone regeneration by basic fibroblast growth factor complexed with biodegradable hydrogels. Biomaterials, 1998, 19, 807-815.	5.7	207
16	Photodynamic Effect of Polyethylene Glycol-modified Fullerene on Tumor. Japanese Journal of Cancer Research, 1997, 88, 1108-1116.	1.7	198
17	Neovascularization effect of biodegradable gelatin microspheres incorporating basic fibroblast growth factor. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 79-94.	1.9	191
18	Mesenchymal stem cell-based drug delivery strategy: from cells to biomimetic. Journal of Controlled Release, 2019, 294, 102-113.	4.8	175

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19	A MnO₂ Nanoparticle-Dotted Hydrogel Promotes Spinal Cord Repair via Regulating Reactive Oxygen Species Microenvironment and Synergizing with Mesenchymal Stem Cells. ACS Nano, 2019, 13, 14283-14293.	7.3	166
20	De NovoFormation of Adipose Tissue by Controlled Release of Basic Fibroblast Growth Factor. Tissue Engineering, 2000, 6, 279-289.	4.9	157
21	Controlled release of plasmid DNA from cationized gelatin hydrogels based on hydrogel degradation. Journal of Controlled Release, 2002, 80, 333-343.	4.8	157
22	Acceleration of Fracture Healing in Nonhuman Primates by Fibroblast Growth Factor-2. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 875-880.	1.8	155
23	Size effect on systemic and mucosal immune responses induced by oral administration of biodegradable microspheres. Vaccine, 1996, 14, 1677-1685.	1.7	152
24	Synthesis of gelatin microspheres containing interferon. Pharmaceutical Research, 1989, 06, 422-427.	1.7	151
25	Prevascularization with gelatin microspheres containing basic fibroblast growth factor enhances the benefits of cardiomyocyte transplantation. Journal of Thoracic and Cardiovascular Surgery, 2002, 124, 50-56.	0.4	142
26	Preparation of stem cell aggregates with gelatin microspheres to enhance biological functions. Acta Biomaterialia, 2011, 7, 2797-2803.	4.1	136
27	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. Biomaterials, 2014, 35, 8829-8839.	5.7	136
28	Comparison of Body Distribution of Poly(vinyl alcohol) with Other Water-soluble Polymers after Intravenous Administration. Journal of Pharmacy and Pharmacology, 2011, 47, 479-486.	1.2	134
29	Augmented liver targeting of exosomes by surface modification with cationized pullulan. Acta Biomaterialia, 2017, 57, 274-284.	4.1	132
30	In vitro toxicity test of 2-cyanoacrylate polymers by cell culture method. Journal of Biomedical Materials Research Part B, 1990, 24, 1355-1367.	3.0	130
31	Enhanced angiogenesis by multiple release of platelet-rich plasma contents and basic fibroblast growth factor from gelatin hydrogels. Acta Biomaterialia, 2012, 8, 1792-1801.	4.1	130
32	Controlled release of vascular endothelial growth factor by use of collagen hydrogels. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 915-930.	1.9	121
33	Augmented Bone Regeneration Activity of Platelet-Rich Plasma by Biodegradable Gelatin Hydrogel. Tissue Engineering, 2005, 11, 1224-1233.	4.9	121
34	A Novel Approach to Therapeutic Angiogenesis for Patients With Critical Limb Ischemia by Sustained Release of Basic Fibroblast Growth Factor Using Biodegradable Gelatin Hydrogel An Initial Report of the Phase I-IIa Study. Circulation Journal, 2007, 71, 1181-1186.	0.7	121
35	Potential efficacy of basic fibroblast growth factor incorporated in biodegradable hydrogels for skull bone regeneration. Journal of Neurosurgery, 1997, 86, 871-875.	0.9	116
36	Three-Dimensional Culture System of Cancer Cells Combined with Biomaterials for Drug Screening. Cancers, 2020, 12, 2754.	1.7	113

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37	In vivo degradability of hydrogels prepared from different gelatins by various cross-linking methods. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 549-561.	1.9	111
38	In vitro sorption and desorption of basic fibroblast growth factor from biodegradable hydrogels. Biomaterials, 1998, 19, 1781-1789.	5.7	110
39	Injectable dual-gelling cell-laden composite hydrogels for bone tissue engineering. Biomaterials, 2016, 83, 1-11.	5.7	109
40	Dual-controlled release system of drugs for bone regeneration. Advanced Drug Delivery Reviews, 2015, 94, 28-40.	6.6	106
41	Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model. Inflammation and Regeneration, 2016, 36, 26.	1.5	106
42	In Situ Regeneration of Adipose Tissue in Rat Fat Pad by Combining a Collagen Scaffold with Gelatin Microspheres Containing Basic Fibroblast Growth Factor. Tissue Engineering, 2006, 12, 1475-1487.	4.9	105
43	Neural Stem Cells Transfected with Reactive Oxygen Speciesâ€“Responsive Polyplexes for Effective Treatment of Ischemic Stroke. Advanced Materials, 2019, 31, e1807591.	11.1	102
44	Novel Therapy for Hearing Loss. Otology and Neurotology, 2007, 28, 976-981.	0.7	99
45	Significance of release technology in tissue engineering. Drug Discovery Today, 2005, 10, 1639-1646.	3.2	97
46	Topical insulin-like growth factor 1 treatment using gelatin hydrogels for glucocorticoid-resistant sudden sensorineural hearing loss: a prospective clinical trial. BMC Medicine, 2010, 8, 76.	2.3	96
47	Controlled Release of Stromal-Cell-Derived Factor-1 from Gelatin Hydrogels Enhances Angiogenesis. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 37-51.	1.9	94
48	Body distribution profile of polysaccharides after intravenous administration. Drug Delivery, 1993, 1, 75-82.	2.5	92
49	Peptide-Tethered Hydrogel Scaffold Promotes Recovery from Spinal Cord Transection via Synergism with Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 3330-3342.	4.0	90
50	Dual release of growth factor from nanocomposite fibrous scaffold promotes vascularisation and bone regeneration in rat critical sized calvarial defect. Acta Biomaterialia, 2018, 78, 36-47.	4.1	85
51	Controlled Release of Hepatocyte Growth Factor from Gelatin Hydrogels Based on Hydrogel Degradation. Journal of Drug Targeting, 2001, 9, 461-471.	2.1	80
52	Tumor accumulation of poly(vinyl alcohol) of different sizes after intravenous injection. Journal of Controlled Release, 1998, 50, 123-133.	4.8	79
53	Evaluation of cell-laden polyelectrolyte hydrogels incorporating poly(l-Lysine) for applications in cartilage tissue engineering. Biomaterials, 2016, 83, 332-346.	5.7	78
54	Evaluation of Insulin Secretion of Isolated Rat Islets Cultured in Extracellular Matrix. Cell Transplantation, 2001, 10, 447-451.	1.2	76

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55	Gene recombinant bone marrow mesenchymal stem cells as a tumor-targeted suicide gene delivery vehicle in pulmonary metastasis therapy using non-viral transfection. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 257-267.	1.7	75
56	Intra-articular administration of gelatin hydrogels incorporating rapamycinâ€“micelles reduces the development of experimental osteoarthritis in a murine model. Biomaterials, 2014, 35, 9904-9911.	5.7	75
57	Chronic vocal fold scar restoration with hepatocyte growth factor hydrogel. Laryngoscope, 2010, 120, 108-113.	1.1	73
58	Efficient long-term survival of cell grafts after myocardial infarction with thick viable cardiac tissue entirely from pluripotent stem cells. Scientific Reports, 2015, 5, 16842.	1.6	73
59	Macrophage activation through phagocytosis of muramyl dipeptide encapsulated in gelatin microspheres. Journal of Pharmacy and Pharmacology, 2011, 39, 698-704.	1.2	70
60	Synergistic effects of co-administration of suicide gene expressing mesenchymal stem cells and prodrug-encapsulated liposome on aggressive lung melanoma metastases in mice. Journal of Controlled Release, 2015, 209, 260-271.	4.8	70
61	Gelatin nanospheres incorporating siRNA for controlled intracellular release. Biomaterials, 2012, 33, 9097-9104.	5.7	69
62	Homogeneous Seeding of Mesenchymal Stem Cells into Nonwoven Fabric for Tissue Engineering. Tissue Engineering, 2003, 9, 931-938.	4.9	68
63	Combination of hybrid peptide with biodegradable gelatin hydrogel for controlled release and enhancement of anti-tumor activity in vivo. Journal of Controlled Release, 2014, 176, 1-7.	4.8	68
64	Ectopic bone formation induced by biodegradable hydrogels incorporating bone morphogenetic protein. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 439-458.	1.9	67
65	Comparison of bone regeneration in a rabbit skull defect by recombinant human BMP-2 incorporated in biodegradable hydrogel and in solution. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 1001-1014.	1.9	66
66	Effects of Basic Fibroblast Growth Factor on Experimental Diabetic Neuropathy in Rats. Diabetes, 2006, 55, 1470-1477.	0.3	66
67	Radial Glial Fibers Promote Neuronal Migration and Functional Recovery after Neonatal Brain Injury. Cell Stem Cell, 2018, 22, 128-137.e9.	5.2	63
68	Effects of bFGF incorporated into a gelatin sheet on wound healing. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 893-907.	1.9	62
69	Liver targeting of interferon through pullulan conjugation. Pharmaceutical Research, 1996, 13, 1846-1850.	1.7	58
70	In Vitro Proliferation and Chondrogenic Differentiation of Rat Bone Marrow Stem Cells Cultured with Gelatin Hydrogel Microspheres for TGF-Î²1 Release. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 609-621.	1.9	57
71	Protein precoating of polylactide microspheres containing a lipophilic immunopotentiator for enhancement of macrophage phagocytosis and activation. Pharmaceutical Research, 1989, 06, 296-301.	1.7	56
72	Hepatocyte Growth Factor Limits Autoimmune Neuroinflammation via Glucocorticoid-Induced Leucine Zipper Expression in Dendritic Cells. Journal of Immunology, 2014, 193, 2743-2752.	0.4	56

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73	Generation of osteochondral tissue constructs with chondrogenically and osteogenically predifferentiated mesenchymal stem cells encapsulated in bilayered hydrogels. Acta Biomaterialia, 2014, 10, 1112-1123.	4.1	54
74	Chitosanâ€“aluminum monostearate composite sponge dressing containing asiaticoside for wound healing and angiogenesis promotion in chronic wound. Materials Science and Engineering C, 2015, 50, 210-225.	3.8	54
75	Complete tissue coverage achieved by scaffold-based tissue engineering in the fetal sheep model of Myelomeningocele. Biomaterials, 2016, 76, 133-143.	5.7	54
76	Combination of BMP-2-releasing gelatin/Î²-TCP sponges with autologous bone marrow for bone regeneration of X-ray-irradiated rabbit ulnar defects. Biomaterials, 2015, 56, 18-25.	5.7	53
77	Cross-linking of amniotic membranes. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 1171-1181.	1.9	52
78	Promoted Bone Healing at a Rabbit Skull Gap Between Autologous Bone Fragment and the Surrounding Intact Bone with Biodegradable Microspheres Containing Transforming Growth Factor-Î²1. Tissue Engineering, 2000, 6, 331-340.	4.9	51
79	Tumor accumulation of poly(ethylene glycol) with different molecular weights after intravenous injection. Drug Delivery, 1997, 4, 23-31.	2.5	50
80	Controlled release of plasmid DNA from hydrogels prepared from gelatin cationized by different amine compounds. Journal of Controlled Release, 2006, 112, 249-256.	4.8	50
81	The Effect of Control-released Basic Fibroblast Growth Factor in Wound Healing. Plastic and Reconstructive Surgery - Global Open, 2013, 1, e44.	0.3	50
82	Biomaterial-Assisted Regenerative Medicine. International Journal of Molecular Sciences, 2021, 22, 8657.	1.8	50
83	Effect of Culture Substrates and Fibroblast Growth Factor Addition on the Proliferation and Differentiation of Rat Bone Marrow Stromal Cells. Tissue Engineering, 2004, 10, 995-1005.	4.9	49
84	Safety and efficacy of sustained release of basic fibroblast growth factor using gelatin hydrogel in patients with critical limb ischemia. Heart and Vessels, 2016, 31, 713-721.	0.5	49
85	Vascularization into a porous sponge by sustained release of basic fibroblast growth factor. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 957-968.	1.9	48
86	Initial bone regeneration around fenestrated implants in Beagle dogs using basic fibroblast growth factorâ€“gelatin hydrogel complex with varying biodegradation rates. Journal of Prosthodontic Research, 2009, 53, 41-47.	1.1	48
87	Peptide modified mesenchymal stem cells as targeting delivery system transfected with miR-133b for the treatment of cerebral ischemia. International Journal of Pharmaceutics, 2017, 531, 90-100.	2.6	48
88	Intramyocardial Transplantation of Human iPS Cellâ€“Derived Cardiac Spheroids Improves Cardiac Function in HeartÂFailure Animals. JACC Basic To Translational Science, 2021, 6, 239-254.	1.9	48
89	Recruitment of mesenchymal stem cells and macrophages by dual release of stromal cellâ€derived factorâ€1 and a macrophage recruitment agent enhances wound closure. Journal of Biomedical Materials Research - Part A, 2016, 104, 942-956.	2.1	47
90	Promotion of fibrovascular tissue ingrowth into porous sponges by basic fibroblast growth factor. Journal of Materials Science: Materials in Medicine, 2000, 11, 213-218.	1.7	46

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91	FGF2 Has Distinct Molecular Functions from GDNF in the Mouse Germline Niche. Stem Cell Reports, 2018, 10, 1782-1792.	2.3	46
92	Osteochondral defect repair using bilayered hydrogels encapsulating both chondrogenically and osteogenically pre-differentiated mesenchymal stem cells in a rabbit model. Osteoarthritis and Cartilage, 2014, 22, 1291-1300.	0.6	45
93	Chondroitin-6-sulfate attenuates inflammatory responses in murine macrophages via suppression of NF-Î²B nuclear translocation. Acta Biomaterialia, 2014, 10, 2684-2692.	4.1	45
94	A Cancer Invasion Model Combined with Cancer-Associated Fibroblasts Aggregates Incorporating Gelatin Hydrogel Microspheres Containing a p53 Inhibitor. Tissue Engineering - Part C: Methods, 2019, 25, 711-720.	1.1	45
95	In vitrophagocytosis of polylactide microspheres by retinal pigment epithelial cells and intracellular drug release. Current Eye Research, 1994, 13, 353-360.	0.7	44
96	Stimulation of Rotator Cuff Repair by Sustained Release of Bone Morphogenetic Protein-7 Using a Gelatin Hydrogel Sheet. Tissue Engineering - Part A, 2015, 21, 2025-2033.	1.6	44
97	Development of a transplant injection device for optimal distribution and retention of human induced pluripotent stem cellâ€'derived cardiomyocytes. Journal of Heart and Lung Transplantation, 2019, 38, 203-214.	0.3	44
98	Iron oxide nanoparticles augment the intercellular mitochondrial transferâ€“mediated therapy. Science Advances, 2021, 7, eabj0534.	4.7	44
99	Promotion of Bone Regeneration by CCN2 Incorporated into Gelatin Hydrogel. Tissue Engineering - Part A, 2008, 14, 1089-1098.	1.6	43
100	Facial nerve regeneration using basic fibroblast growth factor-impregnated gelatin microspheres in a rat model. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E559-E567.	1.3	43
101	A pilot study of regenerative therapy using controlled release of recombinant human fibroblast growth factor for patients with pre-collapse osteonecrosis of the femoral head. International Orthopaedics, 2016, 40, 1747-1754.	0.9	43
102	Usefulness of microspheres composed of gelatin with various cross-linking density. Journal of Microencapsulation, 2003, 20, 767-776.	1.2	42
103	The Efficacy of Prevascularization by Basic FGF for Hepatocyte Transplantation Using Polymer Devices in Rats. Cell Transplantation, 2001, 10, 723-729.	1.2	41
104	A trial to prepare biodegradable collagenâ€“hydroxyapatite composites for bone repair. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 689-705.	1.9	41
105	Preparation of fibrin hydrogels to promote the recruitment of anti-inflammatory macrophages. Acta Biomaterialia, 2019, 89, 152-165.	4.1	41
106	Antitumor Effect of Poly(Ethylene Glycol)-Modified Fullerene. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 989-1007.	0.6	40
107	Tissue regeneration based on tissue engineering technology. Congenital Anomalies (discontinued), 2004, 44, 111-124.	0.3	40
108	Antibacterial-Integrated Collagen Wound Dressing for Diabetes-Related Foot Ulcers: An Evidence-Based Review of Clinical Studies. Polymers, 2020, 12, 2168.	2.0	40

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109	Gelatin Hydrogel Enhances the Engraftment of Transplanted Cardiomyocytes and Angiogenesis to Ameliorate Cardiac Function after Myocardial Infarction. PLoS ONE, 2015, 10, e0133308.	1.1	39
110	Growth Factors Released from Gelatin Hydrogel Microspheres Increase New Neurons in the Adult Mouse Brain. Stem Cells International, 2012, 2012, 1-7.	1.2	38
111	Cardiac Regeneration by Statin-Polymer Nanoparticle-Loaded Adipose-Derived Stem Cell Therapy in Myocardial Infarction. Stem Cells Translational Medicine, 2019, 8, 1055-1067.	1.6	38
112	Current status of regenerative medical therapy based on drug delivery technology. Reproductive BioMedicine Online, 2008, 16, 70-80.	1.1	37
113	A Study of Magnetic Drug Delivery System Using Bulk High Temperature Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2008, 18, 874-877.	1.1	37
114	Rapid treatment of fullâ€thickness skin loss using ovine tendon collagen type<scp>I</scp>scaffold with skin cells. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 874-891.	1.3	37
115	TATâ€dextranâ€“mediated mitochondrial transfer enhances recovery from models of reperfusion injury in cultured cardiomyocytes. Journal of Cellular and Molecular Medicine, 2020, 24, 5007-5020.	1.6	37
116	Complexation of basic fibroblast growth factor with gelatin. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 459-473.	1.9	36
117	Stimulation of bone regeneration following the controlled release of water-insoluble oxysterol from biodegradable hydrogel. Biomaterials, 2014, 35, 5565-5571.	5.7	36
118	Systematic chemical screening identifies disulfiram as a repurposed drug that enhances sensitivity to cisplatin in bladder cancer: a summary of preclinical studies. British Journal of Cancer, 2019, 121, 1027-1038.	2.9	36
119	Macrophage mannose receptor-specific gene delivery vehicle for macrophage engineering. Acta Biomaterialia, 2014, 10, 1847-1855.	4.1	35
120	Comparison of the efficacy of cryopreserved human platelet lysate and refrigerated lyophilized human platelet lysate for wound healing. Regenerative Therapy, 2019, 10, 1-9.	1.4	35
121	Research and Development of Magnetic Drug Delivery System Using Bulk High Temperature Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2009, 19, 2257-2260.	1.1	34
122	Areal Distribution of Preferential Alignment of Biological Apatite (BAp) Crystallite on Cross-Section of Center of Femoral Diaphysis in Osteopetrotic (op/op) Mouse. Materials Transactions, 2007, 48, 337-342.	0.4	33
123	Effect of gelatin hydrogel incorporating fibroblast growth factor 2 on human meniscal cells in an organ culture model. Knee, 2009, 16, 285-289.	0.8	33
124	Interactions between BMP-7 and USAG-1 (Uterine Sensitization-Associated Gene-1) Regulate Supernumerary Organ Formations. PLoS ONE, 2014, 9, e96938.	1.1	33
125	Hypoxia-induced angiogenesis is increased by the controlled release of deferoxiamine from gelatin hydrogels. Acta Biomaterialia, 2014, 10, 3641-3649.	4.1	33
126	Subcutaneous Peripheral Injection of Cationized Gelatin/DNA Polyplexes As a Platform for Non-viral Gene Transfer to Sensory Neurons. Molecular Therapy, 2007, 15, 2124-2131.	3.7	32

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127	Biodegradation of Poly(Î±-amino acid) in vitro. Polymer Journal, 1985, 17, 463-471.	1.3	31
128	Development of an artificial dermis preparation capable of silver sulfadiazine release. Journal of Biomedical Materials Research Part B, 2001, 57, 346-356.	3.0	31
129	The Effect of Nanoparticle-Incorporated Natural-Based Biomaterials towards Cells on Activated Pathways: A Systematic Review. Polymers, 2022, 14, 476.	2.0	31
130	Biocompatible polymer enhances thein vitro andin vivo transfection efficiency of HVJ envelope vector. Journal of Gene Medicine, 2005, 7, 888-897.	1.4	30
131	Preparation and functional evaluation of cell aggregates incorporating gelatin microspheres with different degradabilities. Journal of Tissue Engineering and Regenerative Medicine, 2012, 7, n/a-n/a.	1.3	30
132	The regenerative effects of CCN2 independent modules on chondrocytes in vitro and osteoarthritis models in vivo. Bone, 2014, 59, 180-188.	1.4	30
133	Electric Charge Influence of Dextran Derivatives on their Tumor Accumulation After Intravenous Injection. Drug Delivery, 1997, 4, 213-221.	2.5	29
134	Active drug targeting with immunoconjugates to choroidal neovascularization. Current Eye Research, 2000, 21, 952-961.	0.7	29
135	Influence of Culture Method on the Proliferation and Osteogenic Differentiation of Human Adipo-stromal Cells in Nonwoven Fabrics. Tissue Engineering, 2004, 10, 1587-1596.	4.9	29
136	A Co-Culture System of Three-Dimensional Tumor-Associated Macrophages and Three-Dimensional Cancer-Associated Fibroblasts Combined with Biomolecule Release for Cancer Cell Migration. Tissue Engineering - Part A, 2020, 26, 1272-1282.	1.6	29
137	Preparation of Biodegradable Gelatin Nanospheres with a Narrow Size Distribution for Carrier of Cellular Internalization of Plasmid DNA. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 991-1004.	1.9	28
138	Local Administration of Simvastatin Stimulates Healing of an Avascular Meniscus in a Rabbit Model of a Meniscal Defect. American Journal of Sports Medicine, 2016, 44, 1735-1743.	1.9	28
139	Design of injectable hydrogels of gelatin and alginate with ferric ions for cell transplantation. Acta Biomaterialia, 2019, 100, 184-190.	4.1	28
140	Facial Nerve Decompression Surgery Using bFGFâ€Impregnated Biodegradable Gelatin Hydrogel in Patients with Bell Palsy. Otolaryngology - Head and Neck Surgery, 2012, 146, 641-646.	1.1	27
141	Exploratory clinical trial of combination wound therapy with a gelatin sheet and platelet-rich plasma in patients with chronic skin ulcers: study protocol. BMJ Open, 2015, 5, e007733-e007733.	0.8	27
142	Proapoptotic effect of controlâ€released basic fibroblast growth factor on skin wound healing in a diabetic mouse model. Wound Repair and Regeneration, 2016, 24, 65-74.	1.5	27
143	Implementation of soft microfingers for a hMSC aggregate manipulation system. Microsystems and Nanoengineering, 2016, 2, 15048.	3.4	27
144	Potential of Nanoparticles Integrated with Antibacterial Properties in Preventing Biofilm and Antibiotic Resistance. Antibiotics, 2021, 10, 1338.	1.5	27

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145	Feasibility of drug targeting to the retinal pigment epithelium with biodegradable microspheres. Current Eye Research, 1994, 13, 171-176.	0.7	26
146	Development of a New Method to Induce Angiogenesis at Subcutaneous Site of Streptozotocin-Induced Diabetic Rats for Islet Transplantation. Cell Transplantation, 2001, 10, 453-457.	1.2	26
147	Preparation of gelatin hydrogels incorporating small interfering RNA for the controlled release. Journal of Drug Targeting, 2012, 20, 864-872.	2.1	26
148	Attenuation of osteoarthritis progression in mice following intraâ€articular administration of simvastatinâ€conjugated gelatin hydrogel. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 423-432.	1.3	26
149	Peptide drugs accelerate BMPâ€2â€induced calvarial bone regeneration and stimulate osteoblast differentiation through mTORC1 signaling. BioEssays, 2016, 38, 717-725.	1.2	25
150	A therapeutic angiogenesis of sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogel sheets in a canine chronic myocardial infarction model. Heart and Vessels, 2018, 33, 1251-1257.	0.5	25
151	In vitro transfection of plasmid DNA by cationized gelatin prepared from different amine compounds. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 645-658.	1.9	24
152	Biomaterial-based delivery systems of nucleic acid for regenerative research and regenerative therapy. Regenerative Therapy, 2019, 11, 123-130.	1.4	24
153	3D Culture of MSCs on a Gelatin Microsphere in a Dynamic Culture System Enhances Chondrogenesis. International Journal of Molecular Sciences, 2020, 21, 2688.	1.8	24
154	Ultra-small size gelatin nanogel as a blood brain barrier impermeable contrast agent for magnetic resonance imaging. Acta Biomaterialia, 2021, 125, 290-299.	4.1	24
155	Active stealth and self-positioning biomimetic vehicles achieved effective antitumor therapy. Journal of Controlled Release, 2021, 335, 515-526.	4.8	24
156	Cellular Interaction of Human Skin Cells towards Natural Bioink via 3D-Bioprinting Technologies for Chronic Wound: A Comprehensive Review. International Journal of Molecular Sciences, 2022, 23, 476.	1.8	24
157	Potentiation of Antitumor Activity of Macrophages by Recombinant Interferon Alpha A/D Contained in Gelatin Microspheres. Japanese Journal of Cancer Research, 1988, 79, 636-646.	1.7	23
158	Angiogenic effect of platelet-rich plasma combined with gelatin hydrogel granules injected into murine subcutis. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1941-1948.	1.3	23
159	Strategies Using Gelatin Microparticles for Regenerative Therapy and Drug Screening Applications. Molecules, 2021, 26, 6795.	1.7	23
160	Gelatin Hydrogel With Basic Fibroblast Growth Factor for Tympanic Membrane Regeneration. Otology and Neurotology, 2014, 35, 540-544.	0.7	22
161	Fabrication of hydrogels with elasticity changed by alkaline phosphatase for stem cell culture. Acta Biomaterialia, 2016, 29, 215-227.	4.1	22
162	Sustained release of basic fibroblast growth factor using gelatin hydrogel improved left ventricular function through the alteration of collagen subtype in a rat chronic myocardial infarction model. General Thoracic and Cardiovascular Surgery, 2018, 66, 641-647.	0.4	22

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163	Nanomaterials of Drug Delivery Systems for Tissue Regeneration. , 2005, 300, 081-100.		21
164	Promoted Adipogenesis of Rat Mesenchymal Stem Cells by Transfection of Small Interfering RNA Complexed with a Cationized Dextran. Tissue Engineering - Part A, 2010, 16, 21-31.	1.6	21
165	Cationized gelatin hydrogels mixed with plasmid DNA induce stronger and more sustained gene expression than atelocollagen at calvarial bone defectsin vivo. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 419-430.	1.9	21
166	Enhancement of wound closure by modifying dual release patterns of stromal-derived cell factor-1 and a macrophage recruitment agent from gelatin hydrogels. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2999-3013.	1.3	21
167	Influence of shaking culture on the biological functions of cell aggregates incorporating gelatin hydrogel microspheres. Journal of Bioscience and Bioengineering, 2019, 128, 606-612.	1.1	21
168	Fabrication of Bio-Based Gelatin Sponge for Potential Use as A Functional Acellular Skin Substitute. Polymers, 2020, 12, 2678.	2.0	21
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