

Han-Jun Kim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

206
papers

8,295
citations

42
h-index

87
g-index

224
ext. papers

10,363
ext. citations

8.9
avg, IF

6.38
L-index

#	Paper	IF	Citations
206	A 3D bioprinting system to produce human-scale tissue constructs with structural integrity. <i>Nature Biotechnology</i> , 2016 , 34, 312-9	44.5	1602
205	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , 2018 , 3, 21-37	73.3	317
204	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. <i>Scientific Reports</i> , 2017 , 7, 8837	4.9	297
203	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. <i>Nature Communications</i> , 2018 , 9, 1620	17.4	295
202	Development of a composite vascular scaffolding system that withstands physiological vascular conditions. <i>Biomaterials</i> , 2008 , 29, 2891-8	15.6	292
201	A hydrogel bioink toolkit for mimicking native tissue biochemical and mechanical properties in bioprinted tissue constructs. <i>Acta Biomaterialia</i> , 2015 , 25, 24-34	10.8	281
200	In vitro evaluation of electrospun nanofiber scaffolds for vascular graft application. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 999-1008	5.4	217
199	Bioprinting technology and its applications. <i>European Journal of Cardio-thoracic Surgery</i> , 2014 , 46, 342-8	3	215
198	The use of thermal treatments to enhance the mechanical properties of electrospun poly(epsilon-caprolactone) scaffolds. <i>Biomaterials</i> , 2008 , 29, 1422-30	15.6	191
197	3D bioprinted functional and contractile cardiac tissue constructs. <i>Acta Biomaterialia</i> , 2018 , 70, 48-56	10.8	153
196	Surface modification of 3D-printed porous scaffolds via mussel-inspired polydopamine and effective immobilization of rhBMP-2 to promote osteogenic differentiation for bone tissue engineering. <i>Acta Biomaterialia</i> , 2016 , 40, 182-191	10.8	141
195	Electrospun chitosan nanofibers with controlled levels of silver nanoparticles. Preparation, characterization and antibacterial activity. <i>Carbohydrate Polymers</i> , 2014 , 111, 530-7	10.3	129
194	The effect of gold nanoparticle size on osteogenic differentiation of adipose-derived stem cells. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 68-76	9.3	117
193	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. <i>Scientific Reports</i> , 2018 , 8, 12307	4.9	106
192	Engineered small diameter vascular grafts by combining cell sheet engineering and electrospinning technology. <i>Acta Biomaterialia</i> , 2015 , 16, 14-22	10.8	100
191	A Photo-Crosslinkable Kidney ECM-Derived Bioink Accelerates Renal Tissue Formation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1800992	10.1	97
190	Room-Temperature-Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. <i>Advanced Materials</i> , 2020 , 32, e1904752	24	97

189	Bioactive cell-derived matrices combined with polymer mesh scaffold for osteogenesis and bone healing. <i>Biomaterials</i> , 2015 , 50, 75-86	15.6	94
188	A novel tissue-engineered trachea with a mechanical behavior similar to native trachea. <i>Biomaterials</i> , 2015 , 62, 106-15	15.6	91
187	Three-dimensional printing of metals for biomedical applications. <i>Materials Today Bio</i> , 2019 , 3, 100024	9.9	90
186	In vitro evaluation of a poly(lactide-co-glycolide)-collagen composite scaffold for bone regeneration. <i>Biomaterials</i> , 2006 , 27, 3466-72	15.6	89
185	Platelet-rich plasma loaded hydrogel scaffold enhances chondrogenic differentiation and maturation with up-regulation of CB1 and CB2. <i>Journal of Controlled Release</i> , 2012 , 159, 332-7	11.7	84
184	Inhibition of osteoclast differentiation by gold nanoparticles functionalized with cyclodextrin curcumin complexes. <i>ACS Nano</i> , 2014 , 8, 12049-62	16.7	83
183	Individual cell-only bioink and photocurable supporting medium for 3D printing and generation of engineered tissues with complex geometries. <i>Materials Horizons</i> , 2019 , 6, 1625-1631	14.4	78
182	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a 3D printing system. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2996-3006	13.6	78
181	Osteogenic/angiogenic dual growth factor delivery microcapsules for regeneration of vascularized bone tissue. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1982-92	10.1	72
180	Organ-on-a-Chip for Cancer and Immune Organs Modeling. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801363	13.6	71
179	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. <i>Nature Communications</i> , 2020 , 11, 1025	17.4	70
178	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. <i>Acta Biomaterialia</i> , 2017 , 59, 58-67	10.8	67
177	Efficient myotube formation in 3D bioprinted tissue construct by biochemical and topographical cues. <i>Biomaterials</i> , 2020 , 230, 119632	15.6	65
176	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 129-137	9.3	63
175	In situ regeneration of skeletal muscle tissue through host cell recruitment. <i>Acta Biomaterialia</i> , 2014 , 10, 4332-9	10.8	55
174	Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. <i>Acta Biomaterialia</i> , 2016 , 39, 25-33	10.8	55
173	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. <i>Small</i> , 2020 , 16, e1905910	11	54
172	Time-sequential modulation in expression of growth factors from platelet-rich plasma (PRP) on the chondrocyte cultures. <i>Molecular and Cellular Biochemistry</i> , 2012 , 361, 9-17	4.2	52

171	Engineered cartilage covered ear implants for auricular cartilage reconstruction. <i>Biomacromolecules</i> , 2011 , 12, 306-13	6.9	52
170	Mesenchymal cells condensation-inducible mesh scaffolds for cartilage tissue engineering. <i>Biomaterials</i> , 2016 , 85, 18-29	15.6	50
169	Inhibition of Osteoclast Differentiation and Bone Resorption by Bisphosphonate-conjugated Gold Nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 27336	4.9	49
168	In situ gold nanoparticle growth on polydopamine-coated 3D-printed scaffolds improves osteogenic differentiation for bone tissue engineering applications: in vitro and in vivo studies. <i>Nanoscale</i> , 2018 , 10, 15447-15453	7.7	46
167	Host cell mobilization for in situ tissue regeneration. <i>Rejuvenation Research</i> , 2008 , 11, 747-56	2.6	46
166	Non-transdermal microneedles for advanced drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 165-166, 41-59	18.5	46
165	Flexible and Highly Biocompatible Nanofiber-Based Electrodes for Neural Surface Interfacing. <i>ACS Nano</i> , 2017 , 11, 2961-2971	16.7	45
164	3D Bioprinted BioMask for Facial Skin Reconstruction. <i>Bioprinting</i> , 2018 , 10, e00028-e00028	7	42
163	Chitosan/polyurethane blended fiber sheets containing silver sulfadiazine for use as an antimicrobial wound dressing. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 7488-94	1.3	41
162	Gelatin methacryloyl-based tactile sensors for medical wearables. <i>Advanced Functional Materials</i> , 2020 , 30, 2003601	15.6	41
161	Physical and Chemical Factors Influencing the Printability of Hydrogel-based Extrusion Bioinks. <i>Chemical Reviews</i> , 2020 , 120, 10834-10886	68.1	41
160	Regenerative Therapies for Spinal Cord Injury. <i>Tissue Engineering - Part B: Reviews</i> , 2019 , 25, 471-491	7.9	40
159	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2000086	15.6	38
158	Three-dimensional cell-based bioprinting for soft tissue regeneration. <i>Tissue Engineering and Regenerative Medicine</i> , 2016 , 13, 647-662	4.5	37
157	Novel 3D printed alginateBFP1 hybrid scaffolds for enhanced bone regeneration. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 61-67	6.3	36
156	Local BMP-7 release from a PLGA scaffolding-matrix for the repair of osteochondral defects in rabbits. <i>Journal of Controlled Release</i> , 2012 , 162, 485-91	11.7	36
155	Biodegradable β Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Water-Insoluble Drug. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000527	10.1	35
154	A Human Liver-on-a-Chip Platform for Modeling Nonalcoholic Fatty Liver Disease. <i>Advanced Biology</i> , 2019 , 3, e1900104	3.5	34

153	3D printed cell-laden collagen and hybrid scaffolds for in vivo articular cartilage tissue regeneration. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 343-355	6.3	34
152	Preparation of antibacterial chitosan membranes containing silver nanoparticles for dental barrier membrane applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 196-202	6.3	34
151	Bioprinted Skin Recapitulates Normal Collagen Remodeling in Full-Thickness Wounds. <i>Tissue Engineering - Part A</i> , 2020 , 26, 512-526	3.9	34
150	Injectable hydrogel composite containing modified gold nanoparticles: implication in bone tissue regeneration. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7019-7031	7.3	33
149	Use of Baicalin-Conjugated Gold Nanoparticles for Apoptotic Induction of Breast Cancer Cells. <i>Nanoscale Research Letters</i> , 2016 , 11, 381	5	31
148	Characterization of nerve-cuff electrode interface for biocompatible and chronic stimulating application. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 924-934	8.5	29
147	Vascular endothelial growth factor immobilized on mussel-inspired three-dimensional bilayered scaffold for artificial vascular graft application: In vitro and in vivo evaluations. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 333-344	9.3	29
146	Injectable biodegradable gelatin-methacrylate/tricalcium phosphate composite for the repair of bone defects. <i>Chemical Engineering Journal</i> , 2019 , 365, 30-39	14.7	28
145	Bone-protecting effect of <i>Rubus coreanus</i> by dual regulation of osteoblasts and osteoclasts. <i>Menopause</i> , 2008 , 15, 676-83	2.5	28
144	A photo-crosslinkable cartilage-derived extracellular matrix bioink for auricular cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2021 , 121, 193-203	10.8	27
143	Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5161-5165	7.3	26
142	Generation of functionalized polymer nanolayer on implant surface via initiated chemical vapor deposition (iCVD). <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 34-41	9.3	26
141	Most simple preparation of an inkjet printing of silver nanoparticles on fibrous membrane for water purification: Technological and commercial application. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 46, 273-278	6.3	26
140	Induction of osteogenic differentiation in a rat calvarial bone defect model using an In situ forming graphene oxide incorporated glycol chitosan/oxidized hyaluronic acid injectable hydrogel. <i>Carbon</i> , 2020 , 168, 264-277	10.4	25
139	Synthetic Extracellular Microenvironment for Modulating Stem Cell Behaviors. <i>Biomarker Insights</i> , 2015 , 10, 105-16	3.5	25
138	Anti-bacterial and wound healing-promoting effects of zinc ferrite nanoparticles. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 38	9.4	25
137	Effect of Hierarchical Scaffold Consisting of Aligned dECM Nanofibers and Poly(lactide-glycolide) Struts on the Orientation and Maturation of Human Muscle Progenitor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39449-39458	9.5	24
136	In Vitro Human Liver Model of Nonalcoholic Steatohepatitis by Coculturing Hepatocytes, Endothelial Cells, and Kupffer Cells. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1901379	10.1	24

135	Intra-articular delivery of synovium-resident mesenchymal stem cells via BMP-7-loaded fibrous PLGA scaffolds for cartilage repair. <i>Journal of Controlled Release</i> , 2019 , 302, 169-180	11.7	23
134	Neuroprotective effects of hydrogen inhalation in an experimental rat intracerebral hemorrhage model. <i>Brain Research Bulletin</i> , 2018 , 142, 122-128	3.9	23
133	Comparative characteristics of porous bioceramics for an osteogenic response in vitro and in vivo. <i>PLoS ONE</i> , 2013 , 8, e84272	3.7	23
132	Poly(lactide-co-glycolide) nanofibrous scaffolds chemically coated with gold-nanoparticles as osteoinductive agents for osteogenesis. <i>Applied Surface Science</i> , 2018 , 432, 300-307	6.7	22
131	Platelet-rich plasma loaded in situ-formed hydrogel enhances hyaline cartilage regeneration by CB1 upregulation. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3099-107	5.4	22
130	Development of a three-dimensionally printed scaffold grafted with bone forming peptide-1 for enhanced bone regeneration with in vitro and in vivo evaluations. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 468-480	9.3	22
129	Simple and facile preparation of recombinant human bone morphogenetic protein-2 immobilized titanium implant via initiated chemical vapor deposition technique to promote osteogenesis for bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2019 , 100, 949-958	8.3	21
128	Platelet-Rich Plasma Increases the Levels of Catabolic Molecules and Cellular Dedifferentiation in the Meniscus of a Rabbit Model. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	21
127	A novel decellularized skeletal muscle-derived ECM scaffolding system for in situ muscle regeneration. <i>Methods</i> , 2020 , 171, 77-85	4.6	21
126	Expression of neurotrophic factors in injured spinal cord after transplantation of human-umbilical cord blood stem cells in rats. <i>Journal of Veterinary Science</i> , 2016 , 17, 97-102	1.6	20
125	The Role of the Microenvironment in Controlling the Fate of Bioprinted Stem Cells. <i>Chemical Reviews</i> , 2020 , 120, 11056-11092	68.1	19
124	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cell-based cartilage tissue engineering. <i>Science Advances</i> , 2020 , 6, eaaz5913	14.3	18
123	Biodegradable microneedle patch for transdermal gene delivery. <i>Nanoscale</i> , 2020 , 12, 16724-16729	7.7	18
122	Segmental tracheal reconstruction by 3D-printed scaffold: Pivotal role of asymmetrically porous membrane. <i>Laryngoscope</i> , 2016 , 126, E304-9	3.6	18
121	One-Step Fabrication of AgNPs Embedded Hybrid Dual Nanofibrous Oral Wound Dressings. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 2041-50	4	18
120	Macrophage cell tracking PET imaging using mesoporous silica nanoparticles via in vivo bioorthogonal F-18 labeling. <i>Biomaterials</i> , 2019 , 199, 32-39	15.6	17
119	NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. <i>Biomaterials</i> , 2020 , 258, 120267	15.6	17
118	In Situ Tissue Regeneration of Renal Tissue Induced by Collagen Hydrogel Injection. <i>Stem Cells Translational Medicine</i> , 2018 , 7, 241-250	6.9	16

117	Decellularized Skin Extracellular Matrix (dsECM) Improves the Physical and Biological Properties of Fibrinogen Hydrogel for Skin Bioprinting Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	16
116	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. <i>Biofabrication</i> , 2020 ,	10.5	16
115	Fabrication and design of bioactive agent coated, highly-aligned electrospun matrices for nerve tissue engineering: Preparation, characterization and application. <i>Applied Surface Science</i> , 2017 , 424, 359-367	6.7	15
114	Vitamin D-conjugated gold nanoparticles as functional carriers to enhancing osteogenic differentiation. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 826-836	7.1	15
113	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. <i>Tissue Engineering - Part A</i> , 2020 , 26, 1349-1358	3.9	15
112	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAP-Mediated Mechanosensing. <i>Small</i> , 2020 , 16, e2001837	11	14
111	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. <i>Chemistry of Materials</i> , 2020 , 32, 8733-8746	9.6	14
110	Germinated soy germ with increased soyasaponin Ab improves BMP-2-induced bone formation and protects against in vivo bone loss in osteoporosis. <i>Scientific Reports</i> , 2018 , 8, 12970	4.9	14
109	Biofunctionalization of Nerve Interface via Biocompatible Polymer-Roughened Pt Black on Cuff Electrode for Chronic Recording. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601022	10.1	13
108	Multilayered co-electrospun scaffold containing silver sulfadiazine as a prophylactic against osteomyelitis: Characterization and biological in vitro evaluations. <i>Applied Surface Science</i> , 2018 , 432, 308-316	6.7	13
107	The use of heparin chemistry to improve dental osteogenesis associated with implants. <i>Carbohydrate Polymers</i> , 2017 , 157, 1750-1758	10.3	13
106	3,2FDihydroxyflavone-Treated Pluripotent Stem Cells Show Enhanced Proliferation, Pluripotency Marker Expression, and Neuroprotective Properties. <i>Cell Transplantation</i> , 2015 , 24, 1511-32	4	13
105	Induction of 4D spatiotemporal geometric transformations in high cell density tissues via shape changing hydrogels. <i>Advanced Functional Materials</i> , 2021 , 31, 2010104	15.6	13
104	Nanoemulsion Vehicles as Carriers for Follicular Delivery of Luteolin. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1723-1729	5.5	12
103	Ultrasound-triggered PLGA microparticle destruction and degradation for controlled delivery of local cytotoxicity and drug release. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1211-1217	7.9	12
102	Applicability and safety of in vitro skin expansion using a skin bioreactor: a clinical trial. <i>Archives of Plastic Surgery</i> , 2014 , 41, 661-7	1.6	12
101	Thrombolytic Agents: Nanocarriers in Controlled Release. <i>Small</i> , 2020 , 16, e2001647	11	12
100	Serially pH-Modulated Hydrogels Based on Boronate Ester and Polydopamine Linkages for Local Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2189-2203	9.5	12

99	Cancer-on-a-Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. <i>Small</i> , 2021 , 17, e2004282	11	12
98	Combination of small RNAs for skeletal muscle regeneration. <i>FASEB Journal</i> , 2016 , 30, 1198-206	0.9	11
97	Combinations of photoinitiator and UV absorber for cell-based digital light processing (DLP) bioprinting. <i>Biofabrication</i> , 2021 , 13,	10.5	11
96	Anti-neuroinflammatory gold nanocomplex loading ursodeoxycholic acid following spinal cord injury. <i>Chemical Engineering Journal</i> , 2019 , 375, 122088	14.7	10
95	Reno-protection of Urine-derived Stem Cells in A Chronic Kidney Disease Rat Model Induced by Renal Ischemia and Nephrotoxicity. <i>International Journal of Biological Sciences</i> , 2020 , 16, 435-446	11.2	10
94	Regulation of Adipogenesis Through Differential Modulation of ROS and Kinase Signaling Pathways by 3,4FDihydroxyflavone Treatment. <i>Journal of Cellular Biochemistry</i> , 2017 , 118, 1065-1077	4.7	10
93	Jammed Micro-Flake Hydrogel for 4D Living Cell Bioprinting.. <i>Advanced Materials</i> , 2022 , e2109394	24	10
92	Dexamethasone loaded bilayered 3D tubular scaffold reduces restenosis at the anastomotic site of tracheal replacement: in vitro and in vivo assessments. <i>Nanoscale</i> , 2020 , 12, 4846-4858	7.7	10
91	The effect of 3D printing on the morphological and mechanical properties of polycaprolactone filament and scaffold. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1038-1046	3.2	10
90	Bioengineered Multicellular Liver Microtissues for Modeling Advanced Hepatic Fibrosis Driven Through Non-Alcoholic Fatty Liver Disease. <i>Small</i> , 2021 , 17, e2007425	11	10
89	Image-Guided Neutron Capture Therapy Using the Gd-DO3A-BTA Complex as a New Combinatorial Treatment Approach. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 3727109	3.2	10
88	State of the art in integrated biosensors for organ-on-a-chip applications. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 19, 100309	4.4	10
87	Effect of Human Amniotic Fluid Stem Cells on Kidney Function in a Model of Chronic Kidney Disease. <i>Tissue Engineering - Part A</i> , 2019 , 25, 1493-1503	3.9	9
86	Synthesis of Injectable Shear-Thinning Biomaterials of Various Compositions of Gelatin and Synthetic Silicate Nanoplatelet. <i>Biotechnology Journal</i> , 2020 , 15, e1900456	5.6	9
85	Primary lymphoma of the uterine horn in a Lhasa Apso dog. <i>Irish Veterinary Journal</i> , 2013 , 66, 24	2.2	9
84	Biological assessments of multifunctional hydrogel-decorated implantable neural cuff electrode for clinical neurology application. <i>Scientific Reports</i> , 2017 , 7, 15245	4.9	9
83	Self-aligned myofibers in 3D bioprinted extracellular matrix-based construct accelerate skeletal muscle function restoration. <i>Applied Physics Reviews</i> , 2021 , 8, 021405	17.3	9
82	Preparation of Electrospun Fibrous Scaffold Containing Silver Sulfadiazine for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8554-8558	1.3	9

81	Germinated soy germ extract ameliorates obesity through beige fat activation. <i>Food and Function</i> , 2019 , 10, 836-848	6.1	8
80	Lab-on-a-Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics.. <i>Advanced Materials</i> , 2022 , e2108389	24	8
79	Fabrication and characterization of 3D-printed elastic auricular scaffolds: A pilot study. <i>Laryngoscope</i> , 2019 , 129, 351-357	3.6	8
78	Recent developments in mussel-inspired materials for biomedical applications. <i>Biomaterials Science</i> , 2021 , 9, 6653-6672	7.4	8
77	In vitro and in vivo assessments of an optimal polyblend composition of polycaprolactone/gelatin nanofibrous scaffolds for Achilles tendon tissue engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 76, 173-180	6.3	7
76	Development of novel photopolymerizable hyaluronic acid/heparin-based hydrogel scaffolds with a controlled release of growth factors for enhanced bone regeneration. <i>Macromolecular Research</i> , 2016 , 24, 829-837	1.9	7
75	Decellularized PLGA-based scaffolds and their osteogenic potential with bone marrow stromal cells. <i>Macromolecular Research</i> , 2011 , 19, 1090-1096	1.9	7
74	Comparison of polysaccharides in articular cartilage regeneration associated with chondrogenic and autophagy-related gene expression. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 922-930	7.9	7
73	Monopotassium phosphate-reinforced in situ forming injectable hyaluronic acid hydrogels for subcutaneous injection. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 2134-2144	7.9	7
72	A 3D-printed polycaprolactone/β-tricalcium phosphate mandibular prosthesis: A pilot animal study. <i>Laryngoscope</i> , 2020 , 130, 358-366	3.6	7
71	Three-dimensional bioprinting for organ bioengineering: promise and pitfalls. <i>Current Opinion in Organ Transplantation</i> , 2018 , 23, 649-656	2.5	7
70	4D biofabrication via instantly generated graded hydrogel scaffolds. <i>Bioactive Materials</i> , 2022 , 7, 324-332	26.7	7
69	Co-Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration.. <i>Small</i> , 2022 , e2107714	11	7
68	Soyasaponin Ab alleviates postmenopausal obesity through browning of white adipose tissue. <i>Journal of Functional Foods</i> , 2019 , 57, 453-464	5.1	6
67	Stimulation of cannabinoid receptors by using <i>Rubus coreanus</i> extracts to control osteoporosis in aged male rats. <i>Aging Male</i> , 2015 , 18, 124-32	2.1	6
66	Polydopamine-mediated surface modifications of poly l-lactic acid with hydroxyapatite, heparin and bone morphogenetic protein-2 and their effects on osseointegration. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 67, 244-254	6.3	6
65	Up-regulation of Metabotropic glutamate receptor 3 (mGluR3) in rat fibrosis and cirrhosis model of persistent hypoxic condition. <i>Molecular and Cellular Biochemistry</i> , 2007 , 294, 189-96	4.2	6
64	Hypoxia Helps Maintain Nucleus Pulposus Homeostasis by Balancing Autophagy and Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 5915481	6.7	6

63	Comparison Study of Stem Cell-Derived Extracellular Vesicles for Enhanced Osteogenic Differentiation. <i>Tissue Engineering - Part A</i> , 2021 , 27, 1044-1054	3.9	6
62	Nanocomposite Hydrogel with Tantalum Microparticles for Rapid Endovascular Hemostasis. <i>Advanced Science</i> , 2020 , 8, 2003327	13.6	6
61	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing.. <i>Biomaterials</i> , 2022 , 285, 121479	15.6	6
60	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6908-6918	4.1	5
59	Micro and Nanoscale Technologies for Diagnosis of Viral Infections. <i>Small</i> , 2021 , 17, e2100692	11	5
58	Polypseudorotaxane and polydopamine linkage-based hyaluronic acid hydrogel network with a single syringe injection for sustained drug delivery. <i>Carbohydrate Polymers</i> , 2021 , 266, 118104	10.3	5
57	Receptor-Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. <i>Advanced Functional Materials</i> , 2020 , 30, 2200828	15.6	5
56	Preparation of mechanically enhanced hydrogel scaffolds by incorporating interfacial polymer nanorods for nerve electrode application. <i>Fibers and Polymers</i> , 2017 , 18, 2248-2254	2	4
55	Preparation of Pendant Group-Functionalized Diblock Copolymers with Adjustable Thermogelling Behavior. <i>Polymers</i> , 2017 , 9,	4.5	4
54	Functional recovery of denervated muscle by neurotization using nerve guidance channels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 838-46	4.4	4
53	Recent Advances in Bioinspired Hydrogels: Materials, Devices, and Biosignal Computing. <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	4
52	Facile Preparation of Cyclodextrin-grafted Chitosan Electrospun Nanofibrous Scaffolds as a Hydrophobic Drug Delivery Vehicle for Tissue Engineering Applications. <i>ACS Omega</i> , 2021 , 6, 28307-28315	3.9	4
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